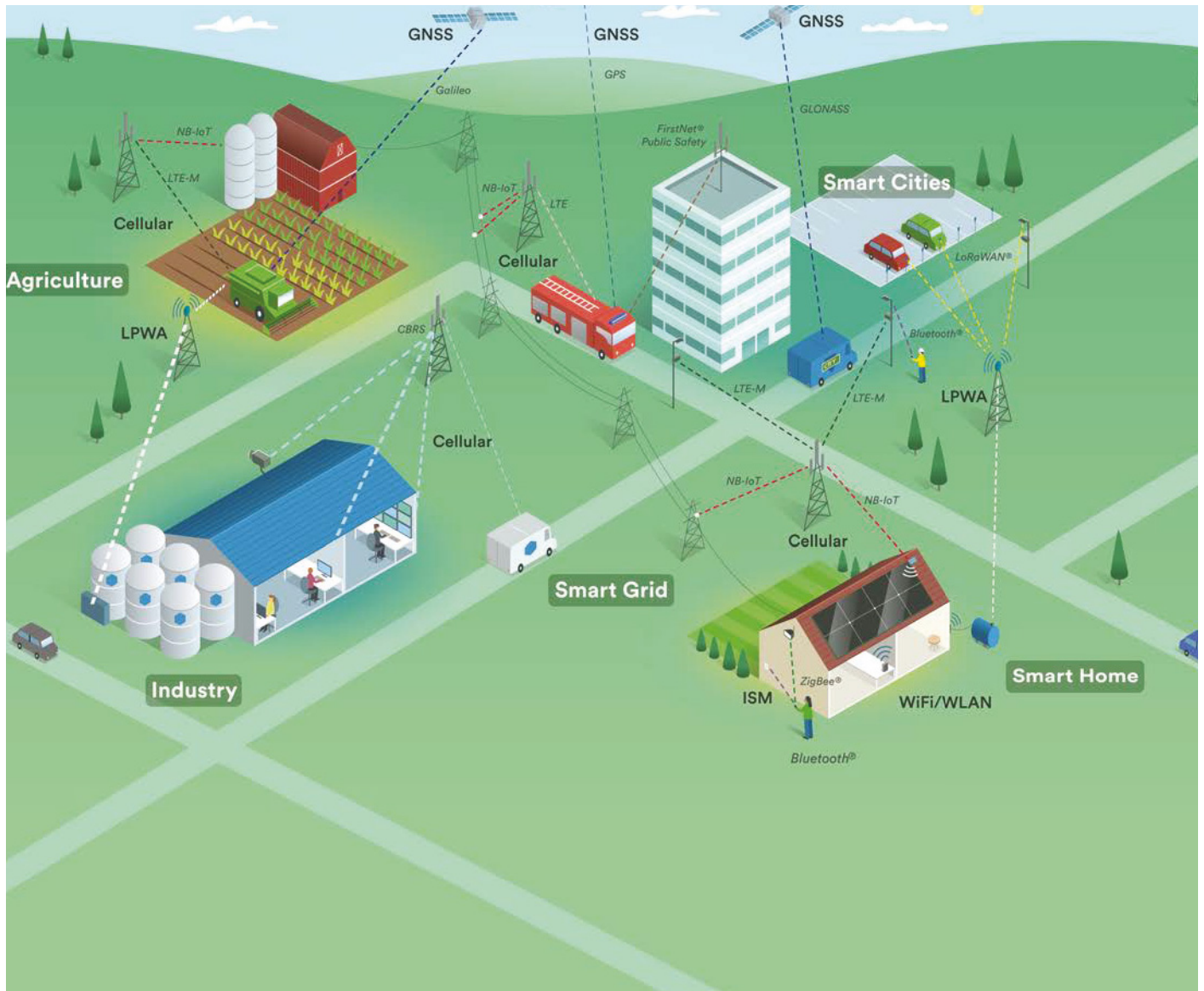




ANTENNA CATALOG

- Cellular • Sub-1 GHz LPWA & ISM • WiFi/WLAN • 2.4 GHz ISM • GNSS
- Other Antennas • Antenna Mounts

ABOUT LINX TECHNOLOGIES

Linx Technologies strives to Make Every Engineer a Hero in Record Time™ by minimizing the risks, delays, and technical challenges for design engineers to make products wireless and connect them to the Internet of Things (IoT). Linx manufactures wireless components including antennas, RF connectors and cables, RF modules, and remote controls. Linx relentlessly focuses on customer success. Every aspect of the Linx Technologies business, from products, documentation, support, and design experience, is specifically crafted to achieve Wireless Made Simple®.

Support and Services

In addition to antenna products, Linx offers design support and services:

- Complimentary design reviews
- Complimentary antenna-matching circuit design
- Full-custom and semi-custom antenna and cable assembly design and documentation

Brand Promise

your design, we relentlessly focus on ensuring your successful product launch.

How to Purchase

Linx sells directly and through a global network of distributors, catalog houses and representatives. See the full list of distributors at the end of this catalog or visit:

<https://linxtechnologies.com/distributors> and

<https://linxtechnologies.com/ reps>

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Linx Oregon Design Center



Linx Taiwan Design Center

Catalog Organization

Antenna product listings are grouped by application, mounting location and mounting type as defined below. Within each grouping, antennas are listed by part number and series, summary applications and characteristics, and termination type for ease of product selection. An asterisk (*) may be used in a part number to denote multiple antenna termination options or cable length options.

Application

Cellular

Linx cellular antennas support cellular and cellular IoT/cellular LPWA applications including:

- 5G, 4G, 3G, 2G
- LTE, UMTS, GSM
- LTE-M (Cat-M1)
- NB-IoT
- CBRS

Sub-1 GHz LPWA & ISM

Linx sub-1 GHz antennas for LPWA and ISM applications offer single-band options in multiple styles,

mounting, and terminations at 433 MHz, 490 MHz, 868 MHz and 915 MHz in support of applications

including:

- LoRaWAN®
- Sigfox®
- Weightless-P
- WiFi HaLow

WiFi/WLAN

Linx dual-band 2.4 GHz, 5 GHz and 6 GHz antenna solutions target wireless LAN (WiFi/WLAN) applications including:

- WiFi 6E
- WiFi 6
- WiFi 5
- WiFi 4
- U-NII 1-4, 5-8
- 802.11b/g/n/ac

2.4 GHz ISM

Linx 2.4 GHz single-band antennas provide a broad range of styles, mounting, termination and levels of

performance to accommodate ISM applications including:

- Bluetooth®
- ZigBee®
- IEEE 802.11b/g
- IEEE 802.15.4

GNSS

Linx offers global navigation satellite system (GNSS) antennas for systems including:

- GPS
- Galileo
- GLONASS
- COMPASS/Beidou

Application

Other Antennas

Linx provides a number of antennas for other uses including medical applications, unlicensed applications and remote control applications including:

- 315 MHz
- 403 MHz
- 418 MHz
- 458 MHz
- 1.4 GHz

Antenna Mounts

Magnetic remote antenna mounts for Linx ELE Series screw base antennas.

Mounting Location

Internal/Embedded Antenna mounts inside an enclosure

External Antenna mounts on the outside of an enclosure

Remote Antenna mounts away from an enclosure with cabled connection to the enclosure

Mounting Type

Connector Connector (e.g. SMA) directly attaches antenna to mounting location

Panel Mount Antenna mounts to enclosure panel/surface and signal connects to radio via cable

Surface Mount Antenna mounts directly to printed circuit board with surface mount solder connection

Adhesive Antenna mounts to mounting location using adhesive

Through Hole Antenna mounts to printed circuit board with a through hole solder connection

Base Screw Antenna screws onto threaded antenna base

PCB Screw Antenna mounts to printed circuit board via screw and lug

Bracket Antenna mounts to mounting location via bracket

Magnetic Antenna mounts to mounting location via magnetic base

CONTENTS

Cellular Antennas

Internal/Embedded				
Surface Mount				
CER Series	Overview	Application	Termination	Page
ANT-LTE-CER-T	Cellular Multiband Monopole Ceramic Chip	LTE, LTE-M (Cat-M1), NB-IoT	Solder Pad	25
Splatch® Series				
ANT-LTE-SP610-T	Cellular Multiband Monopole Chip	LTE, LTE-M (Cat-M1), NB-IoT	Solder Pad	25
Adhesive Mount				
FPC Series				
ANT-5GLFPC1-UFL-100	5G Cellular Sub-6 Multiband Dipole Flexible Patch	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	U.FL-Type	26
ANT-5GMFPC1-UFL-100	5G Cellular Sub-6 Multiband Dipole Flexible Patch	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT, CBRS	U.FL-Type	26
ANT-LPC-FPC-100	Cellular Multiband Dipole Flexible Patch	LTE, LTE-M (Cat-M1), NB-IoT, CBRS, LPWA, GNSS	U.FL-Type	26
ANT-LPL-FPC-100	Cellular Multiband Dipole Flexible Patch	LTE, LTE-M (Cat-M1), NB-IoT, CBRS, LPWA, GNSS	U.FL-Type	27
RPC Series				
ANT-LTE-RPC-*	Cellular Multiband Dipole Rigid Patch	LTE, LTE-M (Cat-M1), NB-IoT, LPWA, GNSS, WiFi 4	U.FL-Type, Unterminated	27
External				
Connector Mount				
CW Series				
ANT-410-CW-QW-SMA	Band 31, Band 87, Band 88, LTE, 5G NR, 410 MHz to 430 MHz, LTE-M, NB-IoT, mMTC	410 MHz Straight Monopole Whip	SMA Plug	28
ANT-450-CW-QW-SMA	Band 72, Band 73, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M, NB-IoT, mMTC	450 MHz Straight Monopole Whip	SMA Plug	28
ANT-B5-CW-QW-SMA	5G/LTE Band 5 Straight Monopole Whip	5G/LTE Band 5, 800 MHz to 900 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	SMA Plug	28
ANT-B8-CW-QW-SMA	5G/LTE Band 8 Straight Monopole Whip	5G/LTE Band 8, 870 MHz to 960 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	SMA Plug	28
ANT-B13-CW-QW-SMA	LTE Band 13 Straight Monopole Whip	LTE Band 13, 740 MHz to 790 MHz, LTE-M (Cat-M1), NB-IoT	SMA Plug	28
ANT-B14-CW-QW-SMA	5G/LTE Band 14 Straight Monopole Whip	5G/LTE Band 14, 750 MHz to 800 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	SMA Plug	29
ANT-B20-CW-QW-SMA	5G/LTE Band 20 Straight Monopole Whip	5G/LTE Band 20, 790 MHz to 870 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	SMA Plug	29
ANT-B28-CW-QW-SMA	5G/LTE Band 28 Straight Monopole Whip	5G/LTE Band 28, 700 MHz to 810 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	SMA Plug	29
IPW Series				
ANT-5GW-IPW1-NP	Cellular Multiband Straight Dipole Whip	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	N Plug	30
ANT-5GW-IPW2-NP	Cellular Multiband Straight Dipole Whip	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	N Plug	30
ANT-V2X-IPW1-*	Cellular Multiband Straight Dipole Whip	C-V2x, C-V2I, DSRC, 5850 MHz to 5925 MHz	RP-SMA Plug SMA Plug	30

CONTENTS

Cellular Antennas

External				
Connector Mount				
MON Series	Overview	Application	Termination	Page
ANT-LTE-MON-SMA	Cellular Multiband Tilt/Swivel Monopole Whip	LTE, UMTS, GSM, CBRS	SMA Plug	31
ANT-LTE-MON-SMA-E	Cellular Multiband Tilt/Swivel Monopole Whip	LTE, LTE-M (Cat-M1), NB-IoT, LPWA, GNSS	SMA Plug	31
ANT-LTE-MON-SMA-L	Cellular Multiband Tilt/Swivel Monopole Whip	LTE, LTE-M (Cat-M1), NB-IoT, CBRS, LPWA	SMA Plug	31
RH Series				
ANT-450-RHR-*	450 MHz Right Angle Monopole Whip	Band 72, Band 73, Band 31, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M (Cat-M1), NB-IoT, mMTC	RP-SMA Plug SMA Plug	32
ANT-450-RHS-*	450 MHz Straight Monopole Whip	Band 72, Band 73, Band 31, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M (Cat-M1), NB-IoT, mMTC	RP-SMA Plug SMA Plug	32
WP Series				
ANT-5GMWPI-SMA	5G Cellular Sub-6 Midband Multiband Hinged Dipole Whip	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	SMA Plug	32
WS Series				
ANT-5GMWS1-SMA	5G Cellular Sub-6 Midband Multiband Hinged Dipole Blade	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	SMA Plug	33
ANT-5GWWS1-SMA	5G Cellular Sub-6 Multiband Hinged Dipole Blade	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	SMA Plug	33
ANT-5GWWS2-SMA	5G Cellular Sub-6 Multiband Hinged Dipole Blade	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	SMA Plug	33
ANT-5GWWS3-SMA	5G Cellular Sub-6 Multiband Hinged Dipole Blade	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	SMA Plug	34
ANT-5GWWS4-*	5G Cellular Sub-6 Multiband Hinged Dipole Blade	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	RP-SMA Plug SMA Plug	34
ANT-5GWWS5-SMA	5G Cellular Sub-6 Multiband Hinged Dipole Blade	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	SMA Plug	35
ANT-LTE-WS-SMA	Cellular Multiband Hinged Dipole Blade	LTE, LTE-M (Cat-M1), NB-IoT, LPWA, GNSS	SMA Plug	35
Panel Mount				
PW Series				
ANT-410-PW-QW-*	410 MHz Straight Monopole Whip	Band 31, Band 87, Band 88, LTE, 5G NR, 410 MHz to 430 MHz, LTE-M, NB-IoT, mMTC	U.FL-Type Plug Unterminated	36
ANT-450-PW-QW-*	450 MHz Straight Monopole Whip	Band 72, Band 73, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M, NB-IoT, mMTC	U.FL-Type Plug Unterminated	36
ANT-B5-PW-QW-*	5G/LTE Band 5 Straight Monopole Whip	5G/LTE Band 5, 800 MHz to 900 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	U.FL-Type Plug Unterminated	36
ANT-B8-PW-QW-*	5G/LTE Band 8 Straight Monopole Whip	5G/LTE Band 8, 870 MHz to 960 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	U.FL-Type Plug Unterminated	36
ANT-B13-PW-QW-*	LTE Band 13 Straight Monopole Whip	LTE Band 13, 740 MHz to 790 MHz, LTE-M (Cat-M1), NB-IoT	U.FL-Type Plug Unterminated	36
ANT-B14-PW-QW-*	5G/LTE Band 14 Straight Monopole Whip	5G/LTE Band 14, 750 MHz to 800 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	U.FL-Type Plug Unterminated	37

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Cellular Antennas

External				
Panel Mount				
PW Series	Overview	Application	Termination	Page
ANT-B20-PW-QW-*	5G/LTE Band 20 Straight Monopole Whip	5G/LTE Band 20, 790 MHz to 870 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	U.FL-Type, Unterminated	37
ANT-B28-PW-QW-*	5G/LTE Band 28 Straight Monopole Whip	5G/LTE Band 28, 700 MHz to 810 MHz, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	U.FL-Type, Unterminated	37
SPNF Series				
ANT-5GW-SPNF1	5G/LTE Multiband Dipole Dome	5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	N jack	38
SPS1-Series				
ANT-5GW-SPS1-*	5G/LTE Multiband Dipole Dome	5G/LTE Multiband, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	SMA Plug	38
RMS Series				
ANT-DB1-RMS-*	Cellular Dual-Band Straight Monopole Whip	LTE, UMTS, GSM	RP-SMA Plug, SMA Plug, TNC Plug	39
RMT Series				
ANT-DB1-RMT-*	Cellular Dual-Band Straight Monopole Whip	LTE, UMTS, GSM	RP-SMA Plug, SMA Plug, TNC Plug	39
Remote				
Adhesive Mount				
HDP Series				
ANT-DB1-HDP-*	Cellular Multiband Straight Dipole Blade	LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug, SMA Plug, TNC Plug	40
HDP-IND Series				
ANT-LTE-HDP-2000-SMA	Cellular Multiband Straight Dipole Adhesive	LTE, UMTS, GSM	SMA Plug	40
VDP Series				
ANT-DB1-VDP-*	LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug, SMA Plug, TNC Plug	41
VDP-IND Series				
ANT-LTE-VDP-2000-SMA	Cellular Multiband Straight Dipole Adhesive	LTE, UMTS, GSM	SMA Plug	41

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Cellular Antennas

Remote				
Magnetic Mount				
MMG Series	Overview	Application	Termination	Page
ANT-5GW-MMG1-SMA-*	Cellular Multiband Straight Dipole Blade	LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	SMA Plug	42
ANT-5GW-MMG2-SMA-*	Cellular Multiband Straight Dipole Blade	LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	SMA Plug	42
Base Screw Mount				
ELE Series				
ANT-ELE-S01-005	824 MHz Straight Dipole Whip	LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Screw Base	43
ANT-ELE-S01-006	Cellular Dual-Band Straight Dipole Whip	LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Screw Base	43
ANT-ELE-S01-008	Cellular Dual-Band Straight Dipole Whip	LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Screw Base	43
ANT-ELE-S01-010	Cellular Dual-Band Straight Dipole Whip	LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Screw Base	43
ANT-ELE-S01-012	Cellular Dual-Band Straight Dipole Whip	LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Screw Base	44
Bracket Mount				
LP-RM Series				
ANT-DB1-LP-RM-01-N	Cellular Multiband Straight Dipole Log Periodic	N/A	N Jack	44

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Sub-1 GHz LPWA & ISM

Internal/Embedded				
Surface Mount				
CHP Series	Overview	Application	Termination	Page
ANT-868-CHP-T	868 MHz Monopole Ceramic Chip	LoRaWAN, Sigfox, Weightless-P	Solder Pad	45
ANT-916-CHP-T	916 MHz Monopole Ceramic Chip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	45
HE Series				
ANT-433-HESM	433 MHz Straight Monopole Helical	LoRaWAN, Weightless-P, Remote Control	Solder Pad	46
ANT-868-HESM	868 MHz Straight Monopole Helical	LoRaWAN, Sigfox, Weightless-P, Remote Control	Solder Pad	46
ANT-916-HESM	915 MHz Straight Monopole Helical	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	46
Splatch® Series				
ANT-433-SP	433 MHz Monopole Chip	LoRaWAN, Weightless-P, Remote Control	Solder Pad	47
ANT-868-SP	868 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P	Solder Pad	47
ANT-916-SP	868 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	47
microSplatch™ 410 Series				
ANT-433-USP410	433 MHz Monopole Chip	LoRaWAN, Weightless-P, Remote Control	Solder Pad	48
ANT-868-USP410	868 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P	Solder Pad	48
ANT-915-USP410	915 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	48
microSplatch™ Series				
ANT-433-USP	433 MHz Monopole Chip	LoRaWAN, Weightless-P, Remote Control	Solder Pad	49
ANT-868-USP	868 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P	Solder Pad	49
ANT-916-USP	915 MHz Monopole Chip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	49
Adhesive Mount				
FPC Series				
ANT-433-FPC-UFL-100	433 MHz Dipole Flexible Patch	LoRaWAN, Weightless-P, Remote Control	U.FL-Type	50
ANT-8/9-FPC-UFL-100	868 MHz 915 MHz Multiband Dipole Flexible Patch	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	U.FL-Type	50
Through Hole Mount				
CPA Series				
ANT-868-CPA	868 MHz Radiating Ceramic Patch	LoRaWAN, Sigfox, Weightless-P	Solder Pad	51
ANT-915-CPA	915 MHz Radiating Ceramic Patch	LoRaWAN, ISM	Solder Pad	51

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Sub-1 GHz LPWA & ISM

Internal/Embedded				
Through Hole Mount				
HE Series	Overview	Application	Termination	Page
ANT-433-HETH	433 MHz Straight Monopole Helical	LoRaWAN, Weightless-P, Remote Control	Solder Pad	51
ANT-868-HETH	868 MHz Straight Monopole Helical	LoRaWAN, Sigfox, Weightless-P	Solder Pad	51
ANT-916-HETH	915 MHz Straight Monopole Helical	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	51
JJB Series				
ANT-868-JJB-RA	868 MHz Right Angle Monopole Dome	LoRaWAN, Sigfox, Weightless-P	Solder Pad	52
ANT-868-JJB-ST	2400 MHz Straight Monopole Dome	LoRaWAN, Sigfox, Weightless-P	Solder Pad	52
ANT-916-JJB-RA	915 MHz Right Angle Monopole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	52
ANT-916-JJB-ST	915 MHz Straight Monopole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	52
JJB-HT Series				
ANT-868-JJB-HT-T	868 MHz Straight Monopole Dome	LoRaWAN, Sigfox, Weightless-P	Solder Pad	53
ANT-916-JJB-HT-T	915 MHz Straight Monopole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	53
VHETH Series				
ANT-868-VHETH	868 MHz Monopole Vertical Helical	LoRaWAN, Sigfox, Weightless-P	Solder Pad	53
ANT-915-VHETH	915 MHz Monopole Vertical Helical	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Solder Pad	53
External				
Connector Mount				
CW Series				
ANT-433-CW-QW-*	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	54
ANT-490-CW-QW-SMA	490 MHz Straight Monopole Whip	LoRaWAN	SMA Plug	54
ANT-868-CW-QW-*	868 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	54
ANT-916-CW-QW-*	915 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	54

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Sub-1 GHz LPWA & ISM

External				
Connector Mount				
HD Series	Overview	Application	Termination	Page
ANT-433-CW-HD-*	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	55
ANT-868-CW-HD-SMA	868 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P	SMA Plug	55
ANT-916-CW-HD	915 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug	55
HWR Series				
ANT-433-CW-HW-*	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	56
ANT-868-CW-HW-*	868 MHz Straight Dipole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	56
ANT-916-CW-HW-*	915 MHz Straight Dipole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	57

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Sub-1 GHz LPWA & ISM

External				
Connector Mount				
IPW Series	Overview	Application	Termination	Page
ANT-8/9-IPW1-NP	868 MHz/915 MHz Straight Outdoor Dipole	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	N Plug	57
ANT-8/9-IPW2-NP	868 MHz/915 MHz Straight Outdoor Dipole	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	N Plug	57
ANT-8/9-IPW1-SMA	868 MHz/915 MHz Tilt/Swivel Dipole Blade	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	SMA Plug	57
ANT-915-IPW1-RPS	915 MHz Tilt/Swivel Dipole Blade	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug	57
NUB Series				
ANT-868-NUB-*	868 MHz Monopole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	58
ANT-915-NUB-*	915 MHz Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	58
OC Series				
ANT-433-OC-LG-*	433 MHz Tilt/Swivel Dipole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	58
ANT-868-OC-LG-*	868 MHz Tilt/Swivel Dipole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	59
ANT-916-OC-LG-*	915 MHz Tilt/Swivel Dipole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	59
RAH Series				
ANT-433-CW-RAH-*	433 MHz Right Angle Monopole Whi	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	59
ANT-868-CW-RAH-*	868 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	59
ANT-916-CW-RAH-*	915 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	59
RCL Series				
ANT-868-CW-RCL-SMA	868 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P	SMA Plug	60
ANT-916-CW-RCL-*	915 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	60
RCS Series				
ANT-433-CW-RCS-*	433 MHz Right Angle Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	60
ANT-868-CW-RCS-*	868 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	60
ANT-916-CW-RCS-*	915 MHz Right Angle Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	60

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Sub-1 GHz LPWA & ISM

External				
Connector Mount				
RH Series	Overview	Application	Termination	Page
ANT-433-CW-RH-*	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	61
ANT-868-CW-RH-*	868 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	61
ANT-916-CW-RH-*	915 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	61
External				
Panel Mount				
PML Series				
ANT-868-PML-*	868 MHz Tilt/Swivel Dipole Whip	LoRaWAN, Sigfox, Weightless-P	U.FL-Type Plug Unterminated	62
ANT-916-PML-*	915 MHz Tilt/Swivel Dipole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	U.FL-Type Plug Unterminated	62
PW Series				
ANT-433-PW-QW-*	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	U.FL-Type Plug Unterminated	63
ANT-490-PW-QW-*	490 MHz Straight Monopole Whip	LoRaWAN	U.FL-Type Plug Unterminated	63
ANT-868-PW-QW-*	868 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P	U.FL-Type Plug Unterminated	63
ANT-916-PW-QW-*	915 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	U.FL-Type Plug Unterminated	63
SPNF Series				
ANT-8/9-SPNF1	868 MHz/915 MHz Dipole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	N Jack	64
ANT-8/9-SPNF2	868 MHz/915 MHz Dipole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	N Jack	64
SPS Series				
ANT-433-SPS1-*	433 MHz Dipole Puck	LoRaWAN, Weightless-P, Remote Control	SMA Plug on 1, 2 or 3 meters of RG-174/U	64
ANT-8/9-SPS1-*	868 MHz/915 MHz Dipole Puck	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	SMA Plug on 1, 2 or 3 meters of RG-174/U	64
WRT Series				
ANT-433-WRT-*	433 MHz Straight Dipole Dome	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	65
ANT-868-WRT-*	868 MHz Straight Dipole Dome	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	65
ANT-916-WRT-*	915 MHz Straight Dipole Dome	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	65

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Internal/Embedded				
PCB Screw Mount				
LP Series	Overview	Application	Termination	Page
ANT-433-PW-LP	433 MHz Straight Monopole Whip	LoRaWAN, Weightless-P, Remote Control	Screw Lug	66
ANT-868-PW-LP	868 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P	Screw Lug	66
ANT-916-PW-LP	916 MHz Straight Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Screw Lug	66
LPN Series				
ANT-8/9-PW-LPN	LPWA Dual-Band Straight Helical Monopole	LoRaWAN, Weightless-P, Remote Control	Screw Lug	66
RA Series				
ANT-433-PW-RA	433 MHz Tilt/Swivel Monopole Whip	LoRaWAN, Weightless-P, Remote Control	Screw Lug	67
ANT-868-PW-RA	868 MHz Tilt/Swivel Monopole Whip	LoRaWAN, Sigfox, Weightless-P	Screw Lug	67
ANT-916-PW-RA	915 MHz Tilt/Swivel Monopole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Screw Lug	67
Remote				
Adhesive Mount				
HDP-IND Series				
ANT-8/9-HDP-2000-*	LPWA Dual-Band Straight Dipole Adhesive	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	67
MHW Series				
ANT-433-MHW-*	433 MHz Dipole Adhesive	LoRaWAN, Weightless-P, Remote Control	RP-SMA Plug SMA Plug	68
ANT-868-MHW-*	868 MHz Dipole Adhesive	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	68
ANT-916-MHW-*	915 MHz Dipole Adhesive	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	68
VDP-IND Series				
ANT-8/9-VDP-2000-*	LPWA Multiband Straight Dipole Adhesive	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	68
Magnetic Mount				
MMG Series				
ANT-8/9-MMG1-SMA-*	LPWA Dual-Band Straight Dipole Magnetic	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	SMA Plug	69
ANT-8/9-MMG2-SMA-*	LPWA Dual-Band Straight Dipole Magnetic	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	SMA Plug	69
Bracket Mount				
ID Series				
ANT-868-ID-1000-*	868 MHz Straight Dipole Whip	LoRaWAN, Sigfox, Weightless-P	RP-SMA Plug SMA Plug	69
ANT-916-ID-1000-*	915 MHz Straight Dipole Whip	LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	RP-SMA Plug SMA Plug	69

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WiFi/WLAN

Internal/Embedded				
Surface Mount				
nanoSplat™ Series	Overview	Application	Termination	Page
ANT-DB1-nSP250	WiFi/WLAN Dual-Band Monopole Chip	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Solder Pad	70
Adhesive Mount				
FPC Series				
ANT-W63-FPC-UFL-100	WiFi/WLAN Multiband Dipole Flexible Patch	WiFi 6E, WiFi 6, WiFi 5, WiFi 4 U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug	70
ANT-W63-FPC-LH-*	WiFi/WLAN Multiband Dipole Flexible Patch Orthogonal Cable	WiFi 6E, WiFi 6, WiFi 5, WiFi 4 U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug MHF4 Plug	71
ANT-W63-FPC-LV-*	WiFi/WLAN Multiband Dipole Flexible Patch Inline Cable	WiFi 6E, WiFi 6, WiFi 5, WiFi 4 U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug MHF4 Plug	71
ANT-W63-FPC-SAH-*	WiFi/WLAN Multiband Dipole Flexible Patch Orthogonal Cable	WiFi 6E, WiFi 6, WiFi 5, WiFi 4 U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug MHF4 Plug	71
ANT-W63-FPC-SH-*	WiFi/WLAN Multiband Dipole Flexible Patch Orthogonal Cable	WiFi 6E, WiFi 6, WiFi 5, WiFi 4 U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug MHF4 Plug	71
ANT-W63-FPC2-UFL-100	WiFi/WLAN Multiband Dipole Flexible Patch	WiFi 6E, WiFi 6, WiFi 5, WiFi 4 U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug	72
RPC Series				
ANT-W63RPC1-*	WiFi/WLAN Multiband Dipole Rigid PCB	WiFi 6E, WiFi 6, WiFi 5, WiFi 4 U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug MHF4-Type Plug Unterminated	72
Through-Hole Mount				
MSA Series				
ANT-W63-MSA-TH1	WiFi/WLAN Dual-Band Stamped Metal Monopole	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Solder Pin	72
External				
Connector Mount				
IPW Series				
ANT-W63-IPW1-NP	WiFi 6E/WiFi 6 Multiband Straight Dipole Whip	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, 802.11, Bluetooth, ZigBee, 802.15.4	N Plug	73
ANT-W63-IPW2-NP	WiFi 6E/WiFi 6 Multiband Straight Dipole Whip	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, 802.11, Bluetooth, ZigBee, 802.15.4	N Plug	73
LCD Series				
ANT-DB1-LCD-*	WiFi/WLAN Dual-Band Hinged Dipole Whip	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	74
MON Series				
ANT-W63-MON-*	WiFi 6E/WiFi 6 Multiband Hinged Dipole Whip	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	74
RAF Series				
ANT-W63-IPW1-NP	WiFi/WLAN Dual-Band Tilt/Swivel Dipole Whip	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	74

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WiFi/WLAN

External				
Connector Mount				
WS Series	Overview	Application	Termination	Page
ANT-W63WS1-*	WiFi 6E/WiFi 6 Multiband Hinged Dipole Blade	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	75
ANT-W63WS2-*	WiFi 6E/WiFi 6 Multiband Hinged Dipole Blade	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	75
ANT-W63WS3-SMA	WiFi 6E/WiFi 6 Multiband Hinged Dipole Blade	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	SMA Plug	75
ANT-W63WS4-*	WiFi 6E/WiFi 6 Multiband Hinged Dipole Blade	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	75
Panel Mount				
LPD Series				
ANT-DB1-LPD-125	WiFi/WLAN Dual-Band Hinged Dipole Whip	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	U.FL-Type Plug	76
SPS Series				
ANT-W63-SPS1-*	WiFi 6E/WiFi 6 Multiband Straight Dipole Puck	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	SMA Plug on 1, 2 or 3 meters of RG-174/U	76
WRT Series				
ANT-DB1-WRT-*	WiFi/WLAN Dual-Band Straight Dipole Dome	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug U.FL-Type Plug MHF4 Plug	77
ANT-W63-WRT-*	WiFi 6E/WiFi 6 Multiband Straight Dipole Dome	WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug U.FL-Type Plug MHF4 Plug	77
WRT-MON Series				
NT-DB1-WRT-MON-*	WiFi/WLAN Dual-Band Straight Monopole Dome	WiFi 5, WiFi 4, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug U.FL-Type Plug MHF3 MHF4	77
Remote				
Adhesive Mount				
HDP-IND Series				
ANT-2/5-HDP-2000-*	WiFi/WLAN Multiband Straight Dipole Adhesive	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	78
VDP-IND Series				
ANT-2/5-VDP-2000-*	WiFi/WLAN Multiband Straight Dipole Adhesive	WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	RP-SMA Plug SMA Plug	78

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CHP Series	Overview	Application	Termination	Page
ANT-2.45-CHP-T	2400 MHz Monopole Ceramic Chip	Bluetooth, ZigBee, 802.15.4, WiFi 4	Solder Pad	79
microSplatch™ Series				
ANT-2.4-USP	2400 MHz Monopole Chip	Bluetooth, ZigBee, 802.15.4, WiFi 4	Solder Pad	79
nanoSplatch™ Series				
ANT-DB1-nSP250-T	2400 MHz Monopole Chip	Bluetooth, ZigBee, 802.15.4, WiFi 4, 802.11	Solder Pad	79
Adhesive Mount				
FPC Series				
ANT-2.4-FPC-LH	WiFi/WLAN Multiband Dipole Flexible Patch Orthogonal Cable	Bluetooth, ZigBee, 802.15.4, WiFi 4	U.FL-Type Plug MHF4 Plug MMCX Plug	80
ANT-2.4-FPC-LV	WiFi/WLAN Multiband Dipole Flexible Patch Inline Cable	Bluetooth, ZigBee, 802.15.4, WiFi 4	U.FL-Type Plug MHF4 Plug MMCX Plug	80
ANT-2.4-FPC-SAH	WiFi/WLAN Multiband Dipole Flexible Patch Orthogonal Cable	Bluetooth, ZigBee, 802.15.4, WiFi 4	U.FL-Type Plug MHF4 Plug	80
ANT-2.4-FPC-SF	WiFi/WLAN Multiband Dipole Flexible Patch Flag Style	Bluetooth, ZigBee, 802.15.4, WiFi 4	U.FL-Type Plug MHF4 Plug	81
ANT-2.4-FPC-SH	WiFi/WLAN Multiband Dipole Flexible Patch Orthogonal Cable	Bluetooth, ZigBee, 802.15.4, WiFi 4	U.FL-Type Plug MHF4 Plug	81
Through Hole Mount				
CPA Series				
ANT-2.4-CPA	2400 MHz Radiating Ceramic Patch	Bluetooth, ZigBee, 802.15.4, WiFi 4	Solder Pin	82
JJB Series				
ANT-2.4-JJB-RA	2400 MHz Right Angle Monopole Dome	Bluetooth, ZigBee, 802.15.4, WiFi 4	Solder Pin	82
ANT-2.4-JJB-ST	2400 MHz Straight Monopole Dome	Bluetooth, ZigBee, 802.15.4, WiFi 4	Solder Pin	82
MSA Series				
ANT-2.4-MSA-TH1	2400 MHz Stamped Metal Monopole	Bluetooth, ZigBee, 802.15.4, WiFi 4	Solder Pin	82
External				
Connector Mount				
CT Series				
ANT-2.4-CW-CT-*	2400 MHz Straight Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	83
CW Series				
ANT-2.4-CW-QW-*	2400 MHz Straight Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	83

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External				
Connector Mount				
HW Series	Overview	Application	Termination	Page
ANT-2.4-CW-HW-*	2400 MHz Straight Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	83
ANT-2.4-CW-HW-T	2400 MHz Straight Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug	83
HWR Series				
ANT-2.4-CW-HWR-*	2400 MHz Tilt/Swivel Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	84
LCW Series				
ANT-2.4-LCW-*	2400 MHz Hinged Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	84
OC Series				
ANT-2.4-OC-LG-*	2400 MHz Tilt/Swivel Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	84
RAH Series				
ANT-2.4-CW-RAH-*	2400 MHz Right Angle Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	85
RCL Series				
ANT-2.4-CW-RCL-*	2400 MHz Right Angle Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	85
RCS Series				
ANT-2.4-CW-RCS-*	2400 MHz Right Angle Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	85
RCT Series				
ANT-2.4-CW-RCT-*	2400 MHz Right Angle Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	85
RH Series				
ANT-2.4-CW-RH-*	2400 MHz Straight Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	86
Panel Mount				
LPW Series				
ANT-2.4-LPW-125	2400 MHz Hinged Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	U.FL-Type Plug	86
PML Series				
ANT-2.4-PML-*	2400 MHz Tilt/Swivel Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	U.FL-Type Plug Unterminated	86
PW Series				
ANT-2.4-PW-QW-*	2400 MHz Straight Monopole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	U.FL-Type Plug Unterminated	86

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2.4 GHz ISM

External				
Panel Mount				
WRT Series	Overview	Application	Termination	Page
ANT-2.4-WRT-*	2400 MHz Straight Dipole Dome	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug U.FL-Type Plug	87
WRT-MON Series				
ANT-2.4-WRT-MON-*	2400 MHz Straight Monopole Dome	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug U.FL-Type Plug	87
PCB Screw Mount				
LP Series				
ANT-2.4-PW-LP	2400 MHz Straight Dipole Dome	Bluetooth, ZigBee, 802.15.4, WiFi 4	Screw Lug	87
LPN Series				
ANT-2.4-PW-LPN-*	2400 MHz Straight Monopole Helical Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	Screw Lug	87
Remote				
Base Screw Mount				
ELE Series	Overview	Application	Termination	Page
ANT-ELE-S01-011	2400 MHz Straight Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4 Use with MAG Series Remote Mount Base	Screw Base	88
Magnetic Mount				
MMG Series	Overview	Application	Termination	Page
ANT-2.4-MMG1-SMA-*	2400 MHz Straight Dipole Whip Magnetic	Bluetooth, ZigBee, 802.15.4, WiFi 4	SMA Plug	88
ANT-2.4-MMG2-SMA-*	2400 MHz Straight Dipole Whip Magnetic	Bluetooth, ZigBee, 802.15.4, WiFi 4	SMA Plug	88
Bracket Mount				
ID Series	Overview	Application	Termination	Page
ANT-2.4-ID-1000-*	2400 MHz Straight Dipole Whip	Bluetooth, ZigBee, 802.15.4, WiFi 4	RP-SMA Plug SMA Plug	88

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GNSS Antennas

Internal/Embedded				
Surface Mount				
SM-CP Series	Overview	Application	Termination	Page
ANT-GNSSCP-SM12L1	L1/E1/B1 Dual-Band Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Solder Pad	89
Adhesive/Mechanical Mount				
SM-CP Series				
ANT-GNCP-CA158L160	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	89
ANT-GNCP-CA188L165	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	90
ANT-GNCP-C106L160	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	90
ANT-GNCP-C185L160	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	90
ANT-GNCP-C257L160	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	90
ANT-GNCP-C357L160	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	91
ANT-GNCP-C25L12100	L1/E1/B1 L2/E5/B2B Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	91
ANT-GNCP-C25L15100	L1/E1/B1 L5/E5/B2A Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	91
ANT-GNCP-C25L125100	L1/E1/B1 L2/E5/B2B L5/E5/B2A Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	U.FL-Type Plug	91
Through Hole Mount				
TH-CP Series				
ANT-GNCP-TH25AL12	L1/E1/B1, L2/L2C Multiband Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Solder Pin	92
ANT-GNCP-TH258L15	L1/L5/E1/B1 Multiband Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Solder Pin	92
ANT-GNSSCP-TH18L1	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Solder Pin	92
ANT-GNSSCP-TH25L1	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Solder Pin	92
Remote				
Magnetic Mount				
GNRM Series	Overview	Application	Termination	Page
ANT-GNRM-L1A	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	SMA Plug	93
ANT-GNRM-L12A	L1/E1/B1, L2/L2C Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	SMA Plug	93
ANT-GNRM-L15A	L1/E1/B1 Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	SMA Plug	94
ANT-GNRM-L125A	L1/E1/B1 L2/E5/B2B L5/E5/B2A Multiband Active Ceramic Patch	Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	SMA Plug	94
SH2 Series	Overview	Application	Termination	Page
ANT-GPS-SH2-*	1553 MHz Radiating Patch Puck	GPS, Galileo, GLONASS, COMPASS, Beidou	SMA Plug MCX Plug MMCX Plug	94

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HE Series	Overview	Application	Termination	Page
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ANT-418-HESM	418 MHz Straight Monopole Helical	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Solder Pad	95
HE Series				
ANT-315-SP	315 MHz Monopole Chip	Remote Control	Solder Pad	96
ANT-403-SP	403 MHz Monopole Chip	N/A	Solder Pad	96
ANT-418-SP	418 MHz Monopole Chip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Solder Pad	96
ANT-458-SP	458 MHz Monopole Chip	PMR, Personal Mobile Radio	Solder Pad	96
microSplatch™ Series				
ANT-403-USP	403 MHz Monopole Chip	N/A	Solder Pad	97
ANT-418-USP	418 MHz Monopole Chip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Solder Pad	97
Through Hole Mount				
HE Series				
ANT-315-HETH	315 MHz Straight Monopole Helical	Remote Control	Solder Pad	97
ANT-418-HETH	418 MHz Straight Monopole Helical	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Solder Pad	97
External				
Connector Mount				
CW Series				
ANT-418-CW-QW-*	418 MHz Straight Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	98
HD Series				
ANT-315-CW-HD	315 MHz Straight Monopole Whip	Remote Control	RP-SMA Plug	98
ANT-418-CW-HD	418 MHz Straight Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug	98
HW Series				
ANT-315-CW-HW-*	315 MHz Straight Monopole Whip	Remote Control	RP-SMA Plug SMA Plug	99
ANT-418-CW-HW-*	418 MHz Straight Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	99
ANT-1.4-CW-HW-*	1400 MHz Straight Dipole Whip N	N/A	RP-SMA Plug SMA Plug	99

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External				
Connector Mount				
HWR Series	Overview	Application	Termination	Page
ANT-315-CW-HWR-*	315 MHz Tilt/Swivel Monopole Whip	Remote Control	RP-SMA Plug SMA Plug	100
ANT-418-CW-HWR-*	418 MHz Tilt/Swivel Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	100
ANT-1.4-CW-HWR-*	1400 MHz Tilt/Swivel Dipole Whip	N/A	RP-SMA Plug SMA Plug	100

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External				
Connector Mount				
RAH Series	Overview	Application	Termination	Page
ANT-418-CW-RAH	418 MHz Right Angle Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug	100
RCS Series				
ANT-315-CW-RCS	315 MHz Right Angle Monopole Whip	Remote Control	RP-SMA Plug	101
ANT-418-CW-RCS	418 MHz Right Angle Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug	101
RH Series				
ANT-315-CW-RH-*	315 MHz Right Angle Monopole Whip	Remote Control	RP-SMA Plug SMA Plug	101
ANT-418-CW-RH-*	418 MHz Right Angle Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	101
Panel Mount				
PW Series				
ANT-418-PW-QW-*	418 MHz Straight Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	U.FL-Type Plug Unterminated	102
WRT Series				
ANT-410-WRT-*	410 MHz to 430 MHz Straight Dipole Dome	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	U.FL-Type Plug RP-SMA Plug SMA Plug	102
ANT-418-WRT-*	418 MHz Straight Dipole Dome	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	102
PCB Screw Mount				
LP Series				
ANT-315-PW-LP	315 MHz Straight Monopole Whip	Remote Control	Screw Lug	103
ANT-418-PW-LP	418 MHz Straight Monopole Whip	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Screw Lug	103
RA Series				
ANT-315-PW-RA	315 MHz Tilt/Swivel Monopole Whip	Remote Control	Screw Lug	103
ANT-418-PW-RA	418 MHz Tilt/Swivel Monopole Whip	Medical	Screw Lug	103
Remote				
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ANT-418-MHW-RPS-*	418 MHz Dipole Adhesive	Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	RP-SMA Plug SMA Plug	104

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Magnetic Mount				
MAG Series	Overview	Application	Termination	Page
ANT-MAG-B50-*	Straight - Magnetic Base	Use with ELE Series Screw Base Antennas	RP-SMA Plug SMA Plug TNC Plug	105
ANT-MAG-B66-*	Straight - Magnetic Base	Use with ELE Series Screw Base Antennas	RP-SMA Plug SMA Plug TNC Plug	105
ANT-MAG-B85-*	Straight - Magnetic Base	Use with ELE Series Screw Base Antennas	RP-SMA Plug SMA Plug TNC Plug	105

CELLULAR ANTENNAS

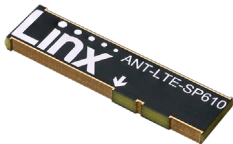
Linx cellular antennas support cellular and cellular IoT applications including:

- 5G, 4G, 3G, 2G
- LTE, UMTS, GSM
- LTE-M (Cat-M1)
- NB-IoT
- CBRS

Data is provided by frequency band in MHz. LTE/5G NR band names may be cross-referenced to frequencies

using the band table on pages 81 and 82.

Internal/Embedded

Surface Mount							
CER Series	Overview	Electrical Data				Mechanical Data	
 ANT-LTE-CER-T	Cellular Multiband Monopole Ceramic Chip Applications LTE, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Surface Mount Termination Solder Pad Dimensions 37.0 mm x 5.0 mm x 5.0 mm Op. Temp -40 °C to +85 °C Ground Plane 120 mm x 45 mm	
		698 - 960	4.0	3.5	55		
		1710 - 2200	3.2	4.0	75		
		2300 - 2400	2.5	3.8	75		
		2496 - 2690	2.5	3.0	65		
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				
Splatch® Series							
 ANT-LTE-SP610-T	Cellular Multiband Monopole Chip Applications LTE, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Surface Mount Termination Solder Pad Dimensions 40.0 mm x 10.0 mm x 2.8 mm Op. Temp -40 °C to +120 °C Ground Plane 120 mm x 45 mm	
		698 - 960	3.4	5.1	61		
		791 - 960	3.4	5.1	60		
		1710 - 2200	3.1	5.3	80		
		2300 - 2400	3.0	4.9	71		
		2496 - 2690	5.0	2.7	52		
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						

Internal/Embedded

Adhesive Mount							
FPC Series	Overview	Electrical Data				Mechanical Data	
 ANT-5GLFPC1-UFL-100	5G Cellular Sub-6 Multiband Dipole Flexible Patch Applications 5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		Mounting Type Adhesive Termination U.FL-Type Plug Dimensions 39.0 mm x 15.0 mm x 0.2 mm Op. Temp -40 °C to +85 °C Cable Length 100.0 mm Cable Type 1.13 mm	
		698 - 803	6.8	-3.2			
		791 - 960	3.7	-3.0			
		Polarization	Linear				
		Wavelength	1/2				
		Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				
 ANT-5GMFPC1-UFL-100	5G Cellular Sub-6 Multiband Dipole Flexible Patch Applications 5G NR Sub-6, LTE, LTE-M (Cat-M1), NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Adhesive Termination U.FL-Type Plug Dimensions 42.0 mm x 12.0 mm x 0.2 mm Op. Temp -40 °C to +85 °C Cable Length 100.0 mm Cable Type 1.13 mm	
		2300 - 2400	3.2	3.0	57		
		2496 - 2690	1.8	4.7	73		
		3300 - 3800	1.7	4.8	59		
		3700 - 4200	1.6	5.9	68		
		4400 - 5000	1.4	6.7	71		
		Polarization	Linear				
		Wavelength	1/2				
Electrical Type	Dipole						
Radiation Pattern	Omnidirectional						
Impedance (Ohms)	50						
 ANT-LPC-FPC-100	Cellular Multiband Dipole Flexible Patch Applications LTE, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT, CBRS, LPWA, GNSS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Adhesive Termination U.FL-Type Plug Dimensions 64.0 mm x 17.0 mm x 0.2 mm Op. Temp -40 °C to +85 °C Cable Length 100.0 mm Cable Type 1.13 mm	
		698 - 803	8.2	0.1	25		
		791 - 960	4.8	3.7	43		
		1553 - 1609	1.7	3.3	72		
		1710 - 2200	4.9	2.2	49		
		2300 - 2400	3.5	3.3	53		
		2400 - 2485	2.7	3.9	43		
		2496 - 2690	3.1	5.0	59		
		3300 - 3800	2.0	5.7	70		
		Polarization	Linear				
		Wavelength	1/2				
		Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				

Internal/Embedded

Adhesive Mount							
FPC Series	Overview	Electrical Data				Mechanical Data	
 							

External

Connector Mount							
CW Series	Overview	Electrical Data				Mechanical Data	
 ANT-410-CW-QW-SMA	410 MHz Straight Monopole Whip Applications Band 31, Band 87, Band 88, LTE, 5G NR, 410 MHz to 430 MHz, LTE-M, NB-IoT, mMTC	Frequency (MHz) 410 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.8	Peak Gain (dBi) 4.1	Efficiency (%) 80	Mounting Type Connector Mount Termination SMA Plug Dimensions 177.2 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
 ANT-450-CW-QW-SMA	450 MHz Straight Monopole Whip Applications Band 72, Band 73, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M, NB-IoT, mMTC	Frequency (MHz) 450 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.3	Peak Gain (dBi) 3.4	Efficiency (%) 72	Mounting Type Connector Mount Termination SMA Plug Dimensions 167.0 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
 ANT-B5-CW-QW-SMA	5G/LTE Band 5 Straight Monopole Whip Applications 5G/LTE Band 5, 800 MHz to 900 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz) 800 - 900 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 2.0	Peak Gain (dBi) 1.2	Efficiency (%) 65	Mounting Type Connector Mount Termination SMA Plug Dimensions 83.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
 ANT-B8-CW-QW-SMA	5G/LTE Band 8 Straight Monopole Whip Applications 5G/LTE Band 8, 870 MHz to 960 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz) 870 - 960 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 2.0	Peak Gain (dBi) 1.6	Efficiency (%) 68	Mounting Type Connector Mount Termination SMA Plug Dimensions 80.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
 ANT-B13-CW-QW-SMA	LTE Band 13 Straight Monopole Whip Applications LTE Band 13, 740 MHz to 790 MHz, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT	Frequency (MHz) 740 - 790 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 2.0	Peak Gain (dBi) 1.7	Efficiency (%) 77	Mounting Type Connector Mount Termination SMA Plug Dimensions 98.4 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	

External

Connector Mount

CW Series	Overview	Electrical Data				Mechanical Data	
 ANT-B14-CW-QW-SMA	5G/LTE Band 14 Straight Monopole Whip Applications 5G/LTE Band 14, 750 MHz to 800 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz) 750 - 800 VSWR (max) 2.0 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Peak Gain (dBi) 1.9 Efficiency (%) 80	Mounting Type Connector Mount Termination SMA Plug Dimensions 94.2 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm			
 ANT-B20-CW-QW-SMA	5G/LTE Band 20 Straight Monopole Whip Applications 5G/LTE Band 20, 790 MHz to 870 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz) 790 - 870 VSWR (max) 2.5 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Peak Gain (dBi) 1.6 Efficiency (%) 2	Mounting Type Connector Mount Termination SMA Plug Dimensions 89.7 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm			
 ANT-B28-CW-QW-SMA	5G/LTE Band 28 Straight Monopole Whip Applications 5G/LTE Band 28, 700 MHz to 810 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz) 700 - 810 VSWR (max) 2.7 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Peak Gain (dBi) 1.7 Efficiency (%) 73	Mounting Type Connector Mount Termination SMA Plug Dimensions 98.4 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm			

External

Connector Mount						
IPW Series	Overview	Electrical Data				Mechanical Data
 ANT-5GW-IPW1-NP	5G/LTE Outdoor Cellular Dipole Applications 5G/LTE, LTE-M (Cat-M1), NB-IoT, CBRS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination N Plug Dimensions 132.0 mm x Ø24.0 mm Op. Temp -30 °C to +70 °C
		617 - 698	1.9	1.8	68	
		698 - 803	1.9	2.8	82	
		791 - 960	3.1	2.3	69	
		1710 - 2200	4.1	3.8	81	
		2300 - 2400	4.8	3.9	80	
		2496 - 2690	3.6	3.0	68	
		3300 - 3800	1.8	5.4	88	
		3550 - 3700	1.1	5.4	96	
		3700 - 4200	1.5	6.2	83	
		4400 - 5000	1.9	7.6	78	
		Polarization		Linear		
		Wavelength		1/2		
		Electrical Type		Dipole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		
 ANT-5GW-IPW2-NP	5G/LTE Outdoor Cellular Dipole Applications 5G/LTE, LTE-M (Cat-M1), NB-IoT, CBRS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination N Plug Dimensions 178.0 mm x Ø25.0 mm Op. Temp -40 °C to +70 °C
		617 - 698	8.1	1.0	54	
		698 - 803	8.5	1.5	56	
		791 - 960	3.9	1.6	56	
		1710 - 2200	2.4	1.2	41	
		2300 - 2400	1.8	1.6	40	
		2496 - 2690	1.7	1.5	40	
		3300 - 3800	1.9	0.5	36	
		3550 - 3700	1.6	2.4	77	
		3700 - 4200	1.8	2.4	68	
		4400 - 5000	2.7	3.7	54	
		Polarization		Linear		
		Wavelength		1/2		
		Electrical Type		Dipole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		
 ANT-V2X-IPW1-NP	C-V2X Outdoor Dipole Applications C-V2X, C-V2I, DSRC	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination N Plug Dimensions 178.0 mm x Ø25.0 mm Op. Temp -40 °C to +70 °C
		5850 - 5925	1.6	4.8	67	
		Polarization		Linear		
		Wavelength		1/2		
		Electrical Type		Dipole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		

External

Connector Mount

MON Series	Overview	Electrical Data				Mechanical Data	
 ANT-LTE-MON-SMA	Cellular Multiband Tilt/Swivel Monopole Whip Applications LTE, 5G NR, mMTC, UMTS, GSM, CBRS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 71.1 mm x 10 mm Op. Temp -40 °C to +130 °C Ground Plane 102 mm x 102 mm	
		698 - 803	3.9	4.8	89		
		791 - 960	3.3	5.8	89		
		1710 - 2200	4.1	3.7	69		
		12300 - 2400	4.6	2.0	52		
		2496 - 2690	4.1	2.4	53		
		3300 - 3800	2.8	6.2	65		
		Polarization		Linear			
		Wavelength		1/4			
		Electrical Type		Monopole			
 ANT-LTE-MON-SMA-E	Cellular Multiband Tilt/Swivel Monopole Whip Applications LTE, LTE-M (Cat-M1), 5G NR, NB-IoT, mMTC, LPWA, GNSS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 72.4 mm x 10 mm Op. Temp -40 °C to +130 °C Ground Plane 102 mm x 102 mm	
		617 - 698	6.8	2.5	58		
		698 - 803	2.2	4.5	83		
		791 - 960	1.9	5.1	83		
		1553 - 1609	3.6	1.1	42		
		1710 - 2200	3.2	3.3	69		
		2300 - 2400	1.3	3.1	78		
		2496 - 2690	2.9	1.3	51		
		3300 - 3800	6.3	1.2	30		
		Polarization		Linear			
 ANT-LTE-MON-SMA-L	Cellular Multiband Tilt/Swivel Monopole Whip Applications LTE, LTE-M (Cat-M1), 5G NR, NB-IoT, mMTC, CBRS, LPWA	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 78.7 mm x 10.0 mm Op. Temp -40 °C to +130 °C Ground Plane 102 mm x 102 mm	
		617 - 698	3.3	3.4	73		
		698 - 803	2.2	4.8	90		
		791 - 960	2.6	5.0	90		
		1553 - 1609	6.1	0.1	33		
		1710 - 2200	3.2	3.9	72		
		2300 - 2400	2.3	3.4	77		
		2496 - 2690	1.9	4.1	79		
		3300 - 3800	2.2	4.6	64		
		Polarization		Linear			
		Wavelength		1/4			
		Electrical Type		Monopole			
		Radiation Pattern		Omnidirectional			
		Impedance (Ohms)		50			

External

Connector Mount

RH Series	Overview	Electrical Data				Mechanical Data	
 ANT-450-RHR-*	450 MHz Right Angle Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
	Applications Band 72, Band 73, Band 31, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M (Cat-M1), NB-IoT	450-470	2.1	-4.6	12	Termination*	RP-SMA Plug SMA Plug
 ANT-450-RHS-*	5G/LTE Band 28 Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Connector Mount
	Applications Band 72, Band 73, Band 31, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M (Cat-M1), NB-IoT	450-470	2.1	-8.2	5	Termination*	RP-SMA Plug SMA Plug
WP Series						Dimensions	51.2 mm x 18.2 mm x 9.0 mm
 ANT-5GMWP1-SMA	5G Cellular Sub-6 Midband Multiband Hinged Dipole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Op. Temp	-20 °C to +85 °C
	Applications 5G, LTE, LTE-M (Cat-M1), NB-IoT, CBRS	3300 - 3800 3700 - 4200 4940 - 4990	1.9 2.2 1.4	5.9 4.7 3.2	80 71 83	Ground Plane	102 mm x 102 mm
		Polarization		Linear			
		Wavelength		1/4			
		Electrical Type		Monopole			
		Radiation Pattern		Omnidirectional			
		Impedance (Ohms)		50			
						Dimensions	195.0 mm x Ø13.0 mm
						Op. Temp	-40 °C to +65 °C
						Ground Plane	-40 °C to +65 °C

External

Connector Mount

WS Series	Overview	Electrical Data				Mechanical Data
 ANT-5GMWS1-SMA	5G Cellular Sub-6 Midband Multiband Hinged Dipole Blade Applications 5G, LTE, LTE-M (Cat-M1), NB-IoT, CBRS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 208.60 mm x 21.9 mm x 11.5 mm Op. Temp -20 °C to +65 °C
		3300 - 3800	1.7	5.9	74	
 ANT-5GWWS1-SMA	5G Cellular Sub-6 Multiband Hinged Dipole Blade Applications 5G, LTE, LTE-M (Cat-M1), NB-IoT, CBRS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 135.7 mm x 20.1 mm x 10.0 mm Op. Temp -20 °C to +65 °C
		617 - 698	3.0	0.7	53	
 ANT-5GWWS2-SMA	5G Cellular Sub-6 Multiband Hinged Dipole Blade Applications 5G, LTE, LTE-M (Cat-M1), NB-IoT, CBRS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 208.60 mm x 11.5 mm Op. Temp -20 °C to +65 °C
		617 - 698	4.0	0.6	53	

External

Connector Mount						
WS Series	Overview	Electrical Data				Mechanical Data
 ANT-5GWWS3-SMA	5G Cellular Sub-6 Multiband Hinged Dipole Blade Applications 5G, LTE, LTE-M (Cat-M)	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 133.4 mm x 21.8 mm x 10.0 mm Op. Temp -30 °C to +85 °C
		617 - 698	2.0	1.4	56	
		698 - 803	1.9	1.1	58	
		791 - 894	2.4	1.1	53	
		832 - 1518	2.8	2.3	44	
		1525 - 1661	1.7	2.8	40	
		1695 - 2200	2.1	8.5	68	
		2300 - 2690	2.3	9.9	76	
		3300 - 4200	2.5	5.4	72	
		4400 - 5000	1.9	4.0	71	
		5150 - 5925	4.5	5.1	58	
		Polarization		Linear		
		Wavelength		1/2		
		Electrical Type		Dipole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		
 ANT-5GWWS4-*	5G Cellular Sub-6 Multiband Hinged Dipole Blade Applications 5G, LTE, LTE-M (Cat-M1), NB-IoT, CBRS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination SMA Plug Dimensions 176.0 mm x 19.6 mm x 13.0 mm Op. Temp -10 °C to +60 °C Antenna Color* Black, White
		617 - 698	4.3	1.7	69	
		698 - 803	3.9	2.8	60	
		791 - 894	4.7	2.7	48	
		832 - 1518	3.2	4.4	63	
		1525 - 1661	3.2	4.1	57	
		1695 - 2200	2.5	3.4	79	
		2300 - 2690	3.6	4.9	58	
		3300 - 4200	3.5	4.8	61	
		4400 - 5000	3.3	4.9	50	
		5150 - 5925	3.0	5.2	53	
		Polarization		Linear		
		Wavelength		1/2		
		Electrical Type		Dipole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		

External

Connector Mount							
WS Series	Overview	Electrical Data				Mechanical Data	
 							

External

Panel Mount							
PW Series	Overview	Electrical Data				Mechanical Data	
 ANT-410-PW-QW-*	410 MHz Straight Monopole Whip Applications Band 31, Band 87, Band 88, LTE, 5G NR, 410 MHz to 430 MHz, LTE-M, NB-IoT, mMTC	Frequency (MHz) 410 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 1.8 Linear 1/4 Monopole Omnidirectional 50	Peak Gain (dBi) 4.1 Efficiency (%) 80	Mounting Type Termination Dimensions Op. Temp Cable Length Cable Type* Ground Plane	Panel Mount U.FL-Type Plug Underterminated Cable 177.2 mm x 14.5 mm 12.8 mm -40 °C to +90 °C 216.0 mm 1.32 mm RG-174 102 mm x 102 mm	
 ANT-5GWWS4-*	450 MHz Straight Monopole Whip Applications Band 72, Band 73, LTE, 5G NR, 450 MHz to 470 MHz, LTE-M, NB-IoT, mMTC	Frequency (MHz) 450 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 1.3 Linear 1/4 Monopole Omnidirectional 50	Peak Gain (dBi) 3.4 Efficiency (%) 72	Mounting Type Termination Dimensions Op. Temp Cable Length Cable Type* Ground Plane	Panel Mount U.FL-Type Plug Underterminated Cable 167.0 mm x 14.5 mm -40 °C to +90 °C 216.0 mm 1.32 mm RG-174 102 mm x 102 mm	
 ANT-B5-PW-QW-*	5G/LTE Band 5 Straight Monopole Whip Applications 5G/LTE Band 5, 800 MHz to 900 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz) 800 - 900 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 2.0 Linear 1/4 Monopole Omnidirectional 50	Peak Gain (dBi) 1.2 Efficiency (%) 65	Mounting Type Termination Dimensions Op. Temp Cable Length Cable Type* Ground Plane	Panel Mount U.FL-Type Plug Underterminated Cable 83.5 mm x 14.5 mm -40 °C to +90 °C 216.0 mm 1.32 mm RG-174 102 mm x 102 mm	
 ANT-B8-PW-QW-*	5G/LTE Band 8 Straight Monopole Whip Applications 5G/LTE Band 8, 870 MHz to 960 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz) 870 - 960 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 2.0 Linear 1/4 Monopole Omnidirectional 50	Peak Gain (dBi) 1.6 Efficiency (%) 68	Mounting Type Termination Dimensions Op. Temp Cable Length Cable Type* Ground Plane	Panel Mount U.FL-Type Plug Underterminated Cable 80.5 mm x 14.5 mm -40 °C to +90 °C 216.0 mm 1.32 mm RG-174 102 mm x 102 mm	

External

Panel Mount

PW Series	Overview	Electrical Data				Mechanical Data	
 ANT-B13-PW-QW-*	LTE Band 13 Straight Monopole Whip Applications LTE Band 13, 740 MHz to 790 MHz, LTE-M (Cat-M1), 5G NR, mMTC, NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
		740 - 790	2.0	1.7	77	Termination	U.FL-Type Plug Unterminated Cable
 ANT-B14-PW-QW-*	5G/LTE Band 14 Straight Monopole Whip Applications 5G/LTE Band 14, 750 MHz to 800 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
		750 - 800	2.0	1.9	80	Termination	U.FL-Type Plug Unterminated Cable
 ANT-B20-PW-QW-*	5G/LTE Band 20 Straight Monopole Whip Applications 5G/LTE Band 20, 790 MHz to 870 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
		790 - 870	2.5	1.6	72	Termination	U.FL-Type Plug Unterminated Cable
 ANT-B28-PW-QW-*	5G/LTE Band 28 Straight Monopole Whip Applications 5G/LTE Band 28, 700 MHz to 810 MHz, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Panel Mount
		700 - 810	2.7	1.7	73	Termination	U.FL-Type Plug Unterminated Cable
		Polarization		Linear		Dimensions	98.4 mm x 14.5 mm
		Wavelength		1/4		Op. Temp	-40 °C to +90 °C
		Electrical Type		Monopole		Cable Length	216.0 mm
		Radiation Pattern		Omnidirectional		Cable Type*	1.32 mm RG-174
		Impedance (Ohms)		50		Ground Plane	102 mm x 102 mm

External

Panel Mount						
SPNF Series	Overview	Electrical Data				Mechanical Data
 ANT-5GW-SPNF1	5G/LTE Multiband Dipole Dome Applications 5G/LTE Multiband, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Panel Mount Termination N Jack Dimensions 70.8 mm x Ø40.2 mm Op. Temp -30 °C to +70 °C Ground Plane 300 mm x 300 mm
		617 - 698	7.0	1.3	56	
		698 - 803	3.0	3.3	89	
		791 - 960	3.0	3.3	92	
		1710 - 2200	1.7	5.1	89	
		2300 - 2400	1.6	4.5	96	
		2496 - 2690	1.7	5.1	96	
		3300 - 3800	4.1	6.5	92	
		3550 - 3700	4.1	6.5	93	
		3700 - 4200	3.6	6.8	94	
		4400 - 5000	1.8	8.4	90	
		Polarization		Linear		
		Wavelength		1/2		
		Electrical Type		Monopole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		
 ANT-5GW-SPS1-*	5G/LTE Multiband Dipole Dome Applications 5G/LTE Multiband, 5G NR Sub-6, LTE-M (Cat-M1), mMTC, NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Panel Mount Termination SMA Plug Dimensions 23.3 mm x Ø54.7 mm Op. Temp -40 °C to +70 °C Cable Length 1 m, 2 m or 3 m Cable Type* RG-174/U Ground Plane 300 mm x 300 mm
		410 - 426	1.8	-0.1	33	
		450 - 470	2.9	-4.2	8	
		617 - 960	3.0	5.4	27	
		1695 - 2200	2.2	3.8	26	
		2300 - 2400	1.3	4.2	52	
		2496 - 2690	1.6	2.7	33	
		3300 - 4200	1.6	2.7	32	
		4400 - 5925	1.6	5.1	39	
		Polarization		Linear		
		Wavelength		1/2		
		Electrical Type		Monopole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		

Remote

Panel Mount					
RMS Series	Overview	Electrical Data			Mechanical Data
 ANT-DB1-RMS-*	Cellular Dual-Band Straight Monopole Whip Applications LTE, UMTS, GSM	Frequency (MHz) 824 - 960 1710 - 1990 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 1.5 2.0 Linear 1/4 Monopole Omnidirectional 50	Peak Gain (dBi) -0.6 5.3 Mounting Type Termination Dimensions Op. Temp Cable Length Cable Type* Ground Plane	Panel Mount RP-SMA Plug SMA Plug TNC Plug 77.8 mm x 29.0 mm -40 °C to +80 °C 216.0 mm 4.3 m RG-58
RMT Series					
 ANT-DB1-RMT-*	Cellular Dual-Band Straight Monopole Whip Applications LTE, UMTS, GSM	Frequency (MHz) 860 - 960 1710 - 1880 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 1.5 2.7 Linear 1/4 Monopole Omnidirectional 50	Mounting Type Termination Dimensions Op. Temp Cable Length Cable Type* Ground Plane	Panel Mount RP-SMA Plug SMA Plug TNC Plug 93.7 mm x 27.5 mm -40 °C to +80 °C 216.0 mm 4.3 m RG-58

Remote

Adhesive Mount

HDP Series	Overview	Electrical Data				Mechanical Data	
 ANT-DB1-HDP-*	Cellular Multiband Straight Dipole Blade Applications LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	Frequency	VSWR	Peak Gain	Mounting Type Adhesive		
		(MHz)	(max)	(dBi)			
		824 - 960	1.5	0.2			
		1710 - 1990	1.9	-3.3			
		2400 - 2480	1.9	0.0			
		Polarization	Linear			Termination RP-SMA Plug SMA Plug TNC Plug	
		Wavelength	1/2				
		Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				
HDP-IND Series							
 ANT-LTE-HDP-2000-SMA	Cellular Multiband Straight Dipole Blade Applications LTE, UMTS, GSM	Frequency	VSWR	Peak Gain	Efficiency	Mounting Type Panel Mount	
		(MHz)	(max)	(dBi)	(%)		
		617 - 698	2.4	3.7	69		
		698 - 803	1.9	3.8	71		
		791 - 960	2.1	2.0	71		
		1710 - 2200	1.5	6.2	45		
		2300 - 2400	1.4	3.9	40		
		2496 - 2690	1.5	4.3	37		
		3300 - 3800	1.2	5.2	22		
		1553 - 1609	1.6	3.1	40		
		3550 - 3700	1.3	4.9	21		
		3700 - 4200	1.5	3.6	19		
		4940 - 4990	1.5	-1.9	12		
		4400 - 5925	1.6	5.1	39		
		Polarization	Linear			Termination RP-SMA Plug SMA Plug TNC Plug	
		Wavelength	1/2				
		Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				
				Dimensions 132.3 mm x 20.0 mm x 12.1 mm			
				Op. Temp -40 °C to +80 °C			
				Cable Length 216.0 mm			
				Cable Type* 3 m			

Remote

Adhesive Mount

VDP Series	Overview	Electrical Data				Mechanical Data	
 ANT-DB1-VDP-*	Cellular Multiband Straight Dipole Blade Applications LTE-M, NB-IoT, LoRaWAN, Sigfox, 2G cellular, Bluetooth, ZigBee, 802.15.4	Frequency	VSWR	Peak Gain		Mounting Type	Adhesive
		(MHz)	(max)	(dBi)		Termination	RP-SMA Plug SMA Plug TNC Plug
		824 - 960	1.5	-1.8		Dimensions	115.0 mm x 22.0 mm x 5.7 mm
		1710 - 1990	1.9	-1.73		Op. Temp	-40 °C to +80 °C
		2400 - 2485	1.9	-1.3		Cable Length	3.0 m
		Polarization		Linear		Cable Type*	RG-174/U
		Wavelength		1/2			
		Electrical Type		Dipole			
		Radiation Pattern		Omnidirectional			
		Impedance (Ohms)		50			
VDP-IND Series							
 ANT-LTE-VDP-2000-SMA	Cellular Multiband Straight Dipole Blade Applications LTE, UMTS, GSM	Frequency	VSWR	Peak Gain	Efficiency	Mounting Type	Adhesive
		(MHz)	(max)	(dBi)	(%)	Termination	SMA Plug
		617 - 698	2.5	4.2	56	Dimensions	115.0 mm x 22.0 mm x 6.3 mm
		698 - 803	1.6	4.9	62	Op. Temp	-40 °C to +85 °C
		791 - 960	2.2	4.9	62	Cable Length	2.0 m
		1710 - 2200	1.5	3.9	42	Cable Type*	RG-174/U
		2300 - 2400	1.5	1.8	27		
		2496 - 2690	1.5	4.5	30		
		3300 - 3800	1.4	1.3	13		
		1553 - 1609	1.7	4.2	50		
		3550 - 3700	1.3	0	10		
		3700 - 4200	1.4	-0.6	8		
		4940 - 4990	1.5	-3.3	5		
		4400 - 5925	1.6	5.1	39		
		Polarization		Linear			
		Wavelength		1/2			
		Electrical Type		Dipole			
		Radiation Pattern		Omnidirectional			
		Impedance (Ohms)		50			

Remote

Magnetic Mount							
MMG Series	Overview	Electrical Data				Mechanical Data	
 ANT-5GW-MMG1-SMA-*	5G/LTE Multiband Dipole Whip Applications 5G/LTE Multiband, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Magnetic Termination SMA Plug Dimensions 82.8 mm x Ø30 mm Op. Temp -20 °C to +80 °C Cable Length 1 m, 2 m, 3 m Cable Type* RG-174/U	
		617 - 698	3.6	-0.4	45		
		698 - 803	2.3	2.5	80		
		791 - 894	2.0	2.5	78		
		832 - 1518	2.9	2.5	61		
		1525 - 1661	3.1	-1.5	29		
		1695 - 2200	2.7	2.1	43		
		2300 - 2690	2.2	1.7	36		
		3300 - 4200	2.1	3.5	28		
		Polarization	Linear				
		Wavelength	1/2				
		Electrical Type	Dipole				
Radiation Pattern	Omnidirectional						
Impedance (Ohms)	50						
 ANT-5GW-MMG2-SMA-*	5G/LTE Multiband Dipole Whip Applications 5G/LTE Multiband, 5G NR Sub-6, LTE-M (Cat-M1), NB-IoT	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Magnetic Termination SMA Plug Dimensions 88.5 mm x Ø29 mm Op. Temp -20 °C to +80 °C Cable Length 1 m, 2 m, 3 m Cable Type* RG-174/U	
		617 - 698	5.7	-0.5	42		
		698 - 803	3.1	3.4	87		
		791 - 894	1.6	3.4	93		
		832 - 1518	2.8	3.3	76		
		1525 - 1661	2.8	0.7	44		
		1695 - 2200	2.5	3.2	60		
		2300 - 2690	2.3	3.6	51		
		3300 - 4200	2.4	4.7	44		
		44000 - 5000	2.4	2.4	34		
		Polarization	Linear				
		Wavelength	1/2				
		Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				

Remote

Base Screw Mount

ELE Series	Overview	Electrical Data			Mechanical Data
 ANT-ELE-S01-005	824 MHz Straight Dipole Whip Applications LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Frequency	VSWR	Peak Gain	Mounting Type Base Screw Termination Screw Base Dimensions 295.4 mm x 9.0 mm Op. Temp -40 °C to +80 °C
		(MHz)	(max)	(dBi)	
 ANT-ELE-S01-006	Cellular Dual-Band Straight Dipole Whip Applications LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Frequency	VSWR	Peak Gain	Mounting Type Base Screw Termination Screw Base Dimensions 233.2 mm x 9.9 mm Op. Temp -40 °C to +80 °C
		(MHz)	(max)	(dBi)	
 ANT-ELE-S01-008	Cellular Dual-Band Straight Dipole Whip Applications LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Frequency	VSWR		Mounting Type Base Screw Termination Screw Base Dimensions 323.9 mm x 11.9 mm Op. Temp -40 °C to +80 °C
		(MHz)	(max)		
 ANT-ELE-S01-010	Cellular Dual-Band Straight Dipole Whip Applications LTE, UMTS, GSM, LPWA Use with MAG Series Remote Mount Base	Frequency	VSWR	Peak Gain	Mounting Type Base Screw Termination Screw Base Dimensions 60.5 mm x 10.0 mm Op. Temp -40 °C to +80 °C
		(MHz)	(max)	(dBi)	

Remote

Base Screw Mount

ELE Series	Overview	Electrical Data			Mechanical Data		
 ANT-ELE-S01-012	Cellular Dual-Band	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)			
	Straight Dipole Whip	824 - 960	2.0	3.2			
	Applications	1710 - 1990	2.0	4.4			
	LTE, UMTS, GSM, LPWA	Polarization	Linear			Mounting Type	Base Screw
	Use with MAG Series	Wavelength	1/2			Termination	Screw Base
	Remote Mount Base	Electrical Type	Dipole			Dimensions	278.7 mm x 9.5 mm
		Radiation Pattern	Omnidirectional			Op. Temp	-40 °C to +80 °C
		Impedance (Ohms)	50				

Bracket Mount

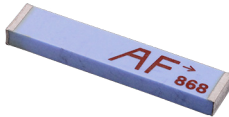
LP-RM Series	Overview	Electrical Data			Mechanical Data
 ANT-DB1-LP-RM-01-N	Cellular Multiband Straight Dipole Log Periodic	Frequency	VSWR	Peak Gain	Mounting Type Bracket Mount Termination N Jack Dimensions 395.0 mm x 210.0 mm x 36.5 mm Cable Length 165.0 mm Cable Type RG-303
		(MHz)	(max)	(dBi)	
		860 - 960	1.5	8.5	
		1710 - 2170	1.5	9.0	
		2400 - 2485	1.5	9.0	
		Polarization	Linear		
		Wavelength	1/2		
		Electrical Type	Dipole		
		Radiation Pattern	Omnidirectional		
		Impedance (Ohms)	50		

SUB-1 GHZ LPWA & ISM

Linx sub-1 GHz antennas for LPWA and ISM applications offer single-band options in multiple styles, mounting, and terminations at 433 MHz, 490 MHz, 868 MHz and 915 MHz in support of applications including:

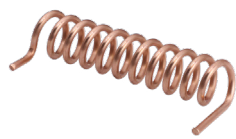
- LoRaWAN®
- Sigfox®
- Weightless-P
- WiFi HaLow

Internal/Embedded

Surface Mount					
CHP Series	Overview	Electrical Data			Mechanical Data
 ANT-868-CHP-T	868 MHz Monopole Ceramic Chip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination Solder Pad Dimensions 3.0 mm x 16.0 mm x 1.7 mm Op. Temp -40 °C to +85 °C Ground Plane 38 mm x 84 mm
		(MHz) 868	(max) 2.0	(dBi) 0.5	
 ANT-916-CHP-T	915 MHz Monopole Ceramic Chip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization		Linear	Mounting Type Surface Mount Termination Solder Pad Dimensions 3.0 mm x 16.0 mm x 1.7 mm Op. Temp -40 °C to +85 °C Ground Plane 38 mm x 84 mm
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

SUB-1 GHZ LPWA & ISM

Internal/Embedded

Surface Mount						
HE Series	Overview	Electrical Data			Mechanical Data	
 ANT-433-HESM	433 MHz Straight Monopole Helical Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination Solder Pad Dimensions 38.1 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 76 mm x 190 mm	
		(MHz)	(max)	(dBi)		
		433	2.0	1.9		
		Polarization	Linear			
		Wavelength	1/4			
 ANT-868-HESM	868 MHz Straight Monopole Helical Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination Solder Pad Dimensions 25.4 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 38 mm x 84 mm	
		(MHz)	(max)	(dBi)		
		868	2.2	5.6		
		Polarization	Linear			
		Wavelength	1/4			
 ANT-916-HESM	915 MHz Straight Monopole Helical Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination Solder Pad Dimensions 25.4 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 38 mm x 84 mm	
		(MHz)	(max)	(dBi)		
		915	1.5	6.4		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			

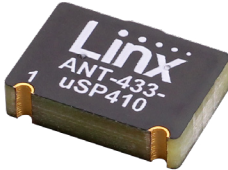
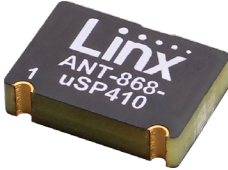
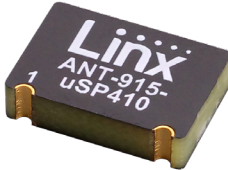
SUB-1 GHZ LPWA & ISM

Internal/Embedded

Surface Mount					
Splash® Series	Overview	Electrical Data			Mechanical Data
 433-SP2 1 GROUNDED LINE PLANAR ANTENNA ANT-433-SP	433 MHz Monopole Chip Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination Solder Pad Dimensions 27.9 mm x 13.7 mm x 1.5 mm Op. Temp -40 °C to +130 °C Ground Plane 38 mm x 84 mm
		(MHz)	(max)	(dBi)	
		433	1.9	-6.4	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 868-SP1 1 GROUNDED LINE PLANAR ANTENNA ANT-868-SP	868 MHz Monopole Chip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination Solder Pad Dimensions 27.9 mm x 13.7 mm x 1.5 mm Op. Temp -40 °C to +130 °C Ground Plane 38 mm x 84 mm
		(MHz)	(max)	(dBi)	
		868	1.9	1.1	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 916-SP2 1 GROUNDED LINE PLANAR ANTENNA ANT-916-SP	915 MHz Monopole Chip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination Solder Pad Dimensions 27.9 mm x 13.7 mm x 1.5 mm Op. Temp -40 °C to +130 °C Ground Plane 38 mm x 84 mm
		(MHz)	(max)	(dBi)	
		915	1.9	1.4	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

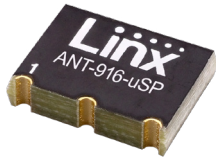
SUB-1 GHZ LPWA & ISM

Internal/Embedded

Surface Mount						
microSplat™ 410 Series	Overview	Electrical Data			Mechanical Data	
 ANT-433-USP410	433 MHz Monopole Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	Applications LoRaWAN, Weightless-P, Remote Control	433	2.2	-8.0	Termination	Solder Pad
		Polarization	Linear		Dimensions	13.2 mm x 9.1 mm x 2.9 mm
		Wavelength	1/4		Op. Temp	-40 °C to +130 °C
		Electrical Type	Monopole		Ground Plane	38 mm x 84 mm
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 ANT-868-USP410	868 MHz Monopole Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	Applications LoRaWAN, Sigfox, Weightless-P	868	2.1	0.7	Termination	Solder Pad
		Polarization	Linear		Dimensions	13.2 mm x 9.1 mm x 2.9 mm
		Wavelength	1/4		Op. Temp	-40 °C to +130 °C
		Electrical Type	Monopole		Ground Plane	38 mm x 84 mm
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				
 ANT-915-USP410	915 MHz Monopole Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type	Surface Mount
	Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	2.7	0.9	Termination	Solder Pad
		Polarization	Linear		Dimensions	13.2 mm x 9.1 mm x 2.9 mm
		Wavelength	1/4		Op. Temp	-40 °C to +130 °C
		Electrical Type	Monopole		Ground Plane	38 mm x 84 mm
	Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50				

SUB-1 GHZ LPWA & ISM

Internal/Embedded

Surface Mount					
microSplatch™ Series	Overview	Electrical Data			Mechanical Data
 ANT-433-USP	433 MHz Monopole Chip Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination Solder Pad Dimensions 12.7 mm x 9.1 mm x 2.6 mm Op. Temp -40 °C to +130 °C Ground Plane 39 mm x 80 mm
		(MHz) 433	(max) 1.9	(dBi) -9.8	
 ANT-868-USP	868 MHz Monopole Chip Applications LoRaWAN, Sigfox, Weightless-P	Polarization		Linear	Mounting Type Surface Mount Termination Solder Pad Dimensions 12.7 mm x 9.1 mm x 2.6 mm Op. Temp -40 °C to +130 °C Ground Plane 39 mm x 80 mm
		Wavelength		1/4	
 ANT-916-USP	915 MHz Monopole Chip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Electrical Type		Monopole	Mounting Type Surface Mount Termination Solder Pad Dimensions 12.7 mm x 9.1 mm x 2.6 mm Op. Temp -40 °C to +130 °C Ground Plane 39 mm x 80 mm
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

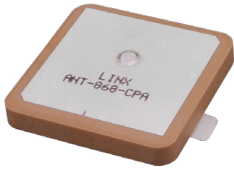
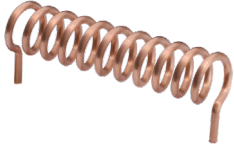
SUB-1 GHZ LPWA & ISM

Internal/Embedded

Adhesive Mount					
FPC Series	Overview	Electrical Data			Mechanical Data
 ANT-433-FPC-UFL-100	433 MHz Monopole Chip Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Termination U,FL-Type Plug Dimensions 47.0 mm x 17.0 mm x 0.2 mm Op. Temp -40 °C to +75 °C Cable Length 100.0 mm Cable Type 13 mm
		(MHz)	(max)	(dBi)	
		410 - 430	4.1	-5.4	
		430 - 435	2.5	-6.0	
		450 - 470	3.4	-2.4	
		Polarization	Linear		
		Wavelength	1/2		
 ANT-8/9-FPC-UFL-100	868 MHz Monopole Chip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Termination U,FL-Type Plug Dimensions 39.0 mm x 15.0 mm x 0.2 mm Op. Temp -40 °C to +75 °C Cable Length 100.0 mm Cable Type 13 mm
		(MHz)	(max)	(dBi)	
		862 - 876	2.0	-3.2	
		902 - 930	1.6	-3.0	
		Polarization	Linear		
Wavelength	1/2				
Electrical Type	Dipole				
Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50				

SUB-1 GHZ LPWA & ISM

Internal/Embedded

Through Hole Mount					
CPA Series	Overview	Electrical Data			Mechanical Data
 ANT-868-CPA	868 MHz Radiating Ceramic Patch Applications LoRaWAN, Sigfox, Weightless-P	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Through Hole Termination Solder Pin Dimensions 25.0 mm x 25.0 mm x 4.0 mm Op. Temp -40 °C to +85 °C Ground Plane 70 mm x 70 mm
		868	9.5	1.4	
		Polarization		RHCP	
		Wavelength		1/4	
		Electrical Type		Radiating Patch	
		Radiation Pattern		Directional	
		Impedance (Ohms)		50	
 ANT-915-CPA	915 MHz Radiating Ceramic Patch Applications LoRaWAN, ISM	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Through Hole Termination Solder Pin Dimensions 25.0 mm x 25.0 mm x 4.0 mm Op. Temp -40 °C to +85 °C Ground Plane 40 mm x 40 mm
		915	1.2	1.5	
		Polarization		RHCP	
		Wavelength		1/4	
		Electrical Type		Radiating Patch	
		Radiation Pattern		Directional	
		Impedance (Ohms)		50	
HE Series					
 ANT-433-HETH	433 MHz Straight Monopole Helical Applications LoRaWAN, Weightless-P, Remote Control	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Through Hole Termination Solder Pin Dimensions 38.1 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 58 mm x 88 mm
		433	2.0	1.9	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-868-HETH	868 MHz Straight Monopole Helical Applications LoRaWAN, Sigfox, Weightless-P	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Through Hole Termination Solder Pin Dimensions 25.4 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 38 mm x 84 mm
		868	2.2	5.6	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-916-HETH	915 MHz Straight Monopole Helical Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Through Hole Termination Solder Pin Dimensions 25.4 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 38 mm x 84 mm
		915	1.5	6.4	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

SUB-1 GHZ LPWA & ISM

Internal/Embedded

Through Hole Mount					
JJB Series	Overview	Electrical Data			Mechanical Data
 ANT-868-JJB-RA	868 MHz Right Angle Monopole Dome Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Through Hole Termination Solder Pin Dimensions 14.5 mm x 7.0 mm Op. Temp -40 °C to +90 °C Ground Plane 38 mm x 84 mm
		(MHz) 868	(max) 2.0	(dBi) -1.0	
 ANT-868-JJB-ST	868 MHz Straight Monopole Dome Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Through Hole Termination Solder Pin Dimensions 17.6 mm x 7.0 mm Op. Temp -40 °C to +90 °C Ground Plane 89 mm x 89 mm
		(MHz) 868	(max) 2.0	(dBi) -8.9	
 ANT-916-JJB-RA	915 MHz Right Angle Monopole Dome Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Through Hole Termination Solder Pin Dimensions 14.5 mm x 7.0 mm Op. Temp -40 °C to +90 °C Ground Plane 38 mm x 84 mm
		(MHz) 915	(max) 2.0	(dBi) -0.5	
 ANT-916-JJB-ST	915 MHz Straight Monopole Dome Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Through Hole Termination Solder Pin Dimensions 17.6 mm x 7.0 mm Op. Temp -40 °C to +90 °C Ground Plane 89 mm x 89 mm
		(MHz) 915	(max) 2.0	(dBi) -10.2	

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Internal/Embedded

Through Hole Mount							
JJB-HT Series		Overview	Electrical Data			Mechanical Data	
 ANT-868-JJB-HT-T	868 MHz Straight Monopole Dome Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Through Hole Termination Solder Pin Dimensions 15.5 mm x 7.1 mm Op. Temp -40 °C to +90 °C Ground Plane 89 mm x 89 mm		
		(MHz)	(max)	(dBi)			
		868	2.0	-10.5			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						
 ANT-916-JJB-HT-T	915 MHz Straight Monopole Dome Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Through Hole Termination Solder Pin Dimensions 15.5 mm x 7.1 mm Op. Temp -40 °C to +90 °C Ground Plane 89 mm x 89 mm		
		(MHz)	(max)	(dBi)			
		915	2.0	-12.3			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						
VHETH Series							
 ANT-868-VHETH	868 MHz Straight Monopole Vertical Helical Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Through Hole Termination Solder Pin Dimensions 44.3 mm x Ø7.0 mm Op. Temp -40 °C to +80 °C Ground Plane 100 mm x 100 mm		
		(MHz)	(max)	(dBi)			
		862 - 876	2.7	-0.7			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						
 ANT-915-VHETH	915 MHz Straight Monopole Vertical Helical Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Through Hole Termination Solder Pin Dimensions 44.3 mm x Ø7.0 mm Op. Temp -40 °C to +80 °C Ground Plane 100 mm x 100 mm		
		(MHz)	(max)	(dBi)			
		902 - 930	2.3	-2.5			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						

SUB-1 GHZ LPWA & ISM

External

Connector Mount							
CW Series	Overview	Electrical Data				Mechanical Data	
 ANT-433-CW-QW-*	433 MHz Straight Monopole Whip Applications LoRaWAN, Weightless-P, Remote Control	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 173.4 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		433	2.0	3.3			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						
 ANT-490-CW-QW-SMA	490 MHz Straight Monopole Whip Applications LoRaWAN	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		Mounting Type Connector Mount Termination SMA Plug Dimensions 157.7 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		915	2.0	-12.3			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						
 ANT-868-CW-QW-*	868 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 83.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		868	2.0	1.2	65		
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						
 ANT-916-CW-QW-*	915 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 80.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		915	2.0	1.6	68		
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						

SUB-1 GHZ LPWA & ISM

External

Connector Mount					
HD Series	Overview	Electrical Data			Mechanical Data
 ANT-433-CW-HD-*	433 MHz Straight Monopole Whip Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 88.0 mm x 13.5 mm Op. Temp -30 °C to +70 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
 ANT-868-CW-HD-SMA	868 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P	433	2.0	0.7	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 88.0 mm x 13.5 mm Op. Temp -30 °C to +70 °C Ground Plane 102 mm x 102 mm
		Polarization		Linear	
 ANT-916-CW-HD	915 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Wavelength		1/4	Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 65.0 mm x 13.5 mm Op. Temp -30 °C to +70 °C Ground Plane 102 mm x 102 mm
		Electrical Type		Monopole	
 ANT-916-CW-HD	915 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Radiation Pattern		Omnidirectional	Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 65.0 mm x 13.5 mm Op. Temp -30 °C to +70 °C Ground Plane 102 mm x 102 mm
		Impedance (Ohms)		50	

SUB-1 GHZ LPWA & ISM

External

Connector Mount						
HW Series	Overview	Electrical Data			Mechanical Data	
 ANT-433-CW-HW-*	433 MHz Straight Monopole Whip Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 120.0 mm x 10.7 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		433	2.0	0.0		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
 ANT-868-CW-HW-*	868 MHz Straight Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 135.5 mm x 10.7 mm Op. Temp 20 °C to +85 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		868	2.0	0.0		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
 ANT-916-CW-HW-*	915 MHz Straight Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 120.0 mm x 10.7 mm Op. Temp 20 °C to +85 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		915	2.0	1.2		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
HWR Series						
 ANT-433-CW-HWR-*	433 MHz Tilt/Swivel Monopole Whip Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 142.0 mm x 10.0 mm Op. Temp -30 °C to +80 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		433	2.0	1.1		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
 ANT-868-CW-HWR-*	868 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 142.0 mm x 10.0 mm Op. Temp -30 °C to +80 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		868	2.0	-2.3		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			

SUB-1 GHZ LPWA & ISM

External

Connector Mount					
HWR Series	Overview	Electrical Data			Mechanical Data
 ANT-916-CW-HWR-*	915 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 142.0 mm x 10.0 mm Op. Temp -30 °C to +80 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		915	2.0	1.2	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
IPW Series					
 ANT-8/9-IPW1-NP	868 MHz/915 MHz LPWA Outdoor Dipole Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination N Plug Dimensions 178.0 mm x Ø25.0 mm Op. Temp -40 °C to +70 °C
		(MHz)	(max)	(dBi)	
		868	1.9	1.2	
		915	2.7	1.6	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-8/9-IPW2-NP	868 MHz/915 MHz LPWA Outdoor Dipole Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination N Plug Dimensions 132.0 mm x Ø24.0 mm Op. Temp -40 °C to +70 °C
		(MHz)	(max)	(dBi)	
		868	1.9	0.6	
		915	1.7	1.5	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-8/9-IPW1-SMA	868 MHz/915 MHz LPWA Tilt/Swivel Dipole Blade Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination SMA Plug Dimensions 203.0 mm x 13.2 mm x 13.2 mm Op. Temp -30 °C to +70 °C
		(MHz)	(max)	(dBi)	
		868	1.6	2.9	
		915	3.2	2.5	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-915-IPW1-RPS	915 MHz LPWA Tilt/Swivel Dipole Blade Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 203.0 mm x 13.2 mm x 13.2 mm Op. Temp -30 °C to +70 °C
		(MHz)	(max)	(dBi)	
		915	1.8	2.7	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

SUB-1 GHZ LPWA & ISM

External

Connector Mount					
NUB Series	Overview	Electrical Data			Mechanical Data
 ANT-868-NUB-*	868 MHz Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 19.7 mm x Ø7.0 mm Op. Temp -40 °C to +105 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		868	1.7	4.2	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-915-NUB-*	915 MHz Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 17.7 mm x Ø7.0 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		915	2.6	3.9	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
OC Series					
 ANT-433-OC-LG-*	433 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 193.5 mm x 10.0 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		433	2.1	0.7	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

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External

Connector Mount						
OC Series	Overview	Electrical Data			Mechanical Data	
 ANT-868-OC-LG-*	868 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 193.5 mm x 10.0 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		868	2.3	0.4		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
 ANT-916-OC-LG-*	915 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 193.5 mm x 10.0 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		915	2.0	2.2		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
RAH Series						
 ANT-433-CW-RAH-*	433 MHz Right Angle Monopole Whip Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 47.0 mm x 16.1 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		433	1.9	-5.0		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
 ANT-868-CW-RAH-*	868 MHz Right Angle Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 47.0 mm x 16.1 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		868	1.9	0.6		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
 ANT-916-CW-RAH-*	915 MHz Right Angle Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 47.0 mm x 16.1 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		915	1.9	2.2		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			

SUB-1 GHZ LPWA & ISM

External

Connector Mount						
RCL Series	Overview	Electrical Data			Mechanical Data	
 ANT-868-CW-RCL-SMA	868 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination SMA Plug Dimensions 96.0 mm x 16.6 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		868	1.9	4.1		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
Impedance (Ohms)	50					
 ANT-916-CW-RCL-SMA	915 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 96.0 mm x 16.6 mm Op. Temp -20 °C to +70 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		915	1.8	4.2		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
Impedance (Ohms)	50					
RCS Series						
 ANT-433-CW-RCS-SMA	433 MHz Right Angle Monopole Whip Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 53.5 mm x 16.6 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		433	2.0	-2.9		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
Impedance (Ohms)	50					
 ANT-868-CW-RCS-SMA	868 MHz Right Angle Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 53.5 mm x 16.6 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		868	2.0	3.6		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
Impedance (Ohms)	50					
 ANT-916-CW-RCS-SMA	915 MHz Right Angle Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 53.5 mm x 16.6 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		915	1.9	3.3		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
Impedance (Ohms)	50					

SUB-1 GHZ LPWA & ISM

External

Connector Mount					
RH Series	Overview	Electrical Data			Mechanical Data
 ANT-433-CW-RH-*	868 MHz Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 51.0 mm x 8.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm
		(MHz) 433	(max) 1.9	(dBi) -5.6	
 ANT-868-CW-RH-*	915 MHz Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Polarization		Linear	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 51.0 mm x 8.5 mm Op. Temp -30 °C to +90 °C Ground Plane 102 mm x 102 mm
		Wavelength		1/4	
 ANT-916-CW-RH-*	433 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 51.0 mm x 8.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm
		(MHz) 915	(max) 1.9	(dBi) -1.3	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

SUB-1 GHZ LPWA & ISM

External

Panel Mount					
PML Series	Overview	Electrical Data			Mechanical Data
 ANT-868-PML-*	868 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 150.3 mm x 12.1 mm Op. Temp -40 °C to +90 °C Cable Length 305.0 mm Cable Type* RG-178 1.32 mm Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		868	1.9	-2.0	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-916-PML-*	915 MHz Tilt/Swivel Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 150.3 mm x 12.1 mm Op. Temp -40 °C to +90 °C Cable Length 305.0 mm Cable Type* RG-178 1.32 mm Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		915	1.9	-0.4	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

SUB-1 GHZ LPWA & ISM

External

Panel Mount						
PW Series	Overview	Electrical Data			Mechanical Data	
 ANT-433-PW-QW-*	433 MHz Straight Monopole Whip Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 173.4 mm x 14.5 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* 1.32 mm RG-174 Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
 ANT-490-PW-QW-*	490 MHz Straight Monopole Whip Applications LoRaWAN	433	2.0	3.3	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 157.7 mm x 14.5 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* 1.32 mm RG-174 Ground Plane 102 mm x 102 mm	
		Polarization		Linear		
 ANT-868-PW-QW-*	868 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P	Wavelength		1/4	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 83.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* 1.32 mm RG-174 Ground Plane 102 mm x 102 mm	
		Electrical Type		Monopole		
 ANT-916-PW-QW-*	915 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Radiation Pattern		Omnidirectional	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 80.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* 1.32 mm RG-174 Ground Plane 102 mm x 102 mm	
		Impedance (Ohms)		50		
 ANT-916-PW-QW-*	915 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 80.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* 1.32 mm RG-174 Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
 ANT-916-PW-QW-*	915 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	915	2.0	1.6	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 80.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* 1.32 mm RG-174 Ground Plane 102 mm x 102 mm	
		Polarization		Linear		
 ANT-916-PW-QW-*	915 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Wavelength		1/4	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 80.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* 1.32 mm RG-174 Ground Plane 102 mm x 102 mm	
		Electrical Type		Monopole		
 ANT-916-PW-QW-*	915 MHz Straight Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Radiation Pattern		Omnidirectional	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 80.5 mm x 14.5 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* 1.32 mm RG-174 Ground Plane 102 mm x 102 mm	
		Impedance (Ohms)		50		

SUB-1 GHZ LPWA & ISM

External

Panel Mount							
SPNF Series		Overview	Electrical Data			Mechanical Data	
 ANT-8/9-SPNF1	868 MHz 915 MHz Dipole Dome Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination N Jack Dimensions 70.8 mm x Ø40.2 mm Op. Temp -30 °C to +70 °C Ground Plane 300 mm x 300 mm		
		(MHz)	(max)	(dBi)			
		868	2.3	3.0			
		915	2.9	3.1			
		Polarization	Linear				
		Wavelength	1/2				
		Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				
 ANT-8/9-SPNF2	868 MHz 915 MHz Dipole Dome Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination N Jack Dimensions 83.1 mm x Ø42.0 mm Op. Temp -40 °C to +85 °C Ground Plane 300 mm x 300 mm		
		(MHz)	(max)	(dBi)			
		868	1.7	3.3			
		915	2.1	3.4			
		Polarization	Linear				
		Wavelength	1/2				
		Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				
SPS Series							
 ANT-433-SPS1-*	433 MHz Dipole Puck Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination SMA Plug Dimensions 23.3 mm x Ø54.7 mm Op. Temp -40 °C to +70 °C Cable Length* 1 m, 2 m or 3 m Cable Type RG-174/U Ground Plane 300 mm x 300 mm		
		(MHz)	(max)	(dBi)			
		410 - 430	2.3	-0.1			
		430 - 435	1.7	-1.3			
		Polarization	Linear				
		Wavelength	1/2				
		Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				
 ANT-8/9-SPS1-*	868 MHz 915 MHz Dipole Puck Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination SMA Plug Dimensions 23.3 mm x Ø54.7 mm Op. Temp -40 °C to +70 °C Cable Length* 1 m, 2 m or 3 m Cable Type RG-174/U Ground Plane 300 mm x 300 mm		
		(MHz)	(max)	(dBi)			
		868	1.6	5.1			
		915	2.4	5.2			
		Polarization	Linear				
		Wavelength	1/2				
		Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				

SUB-1 GHZ LPWA & ISM

External

Panel Mount					
WRT Series	Overview	Electrical Data			Mechanical Data
 ANT-433-WRT-*	433 MHz Straight Dipole Dome Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination RP-SMA Plug SMA Plug Dimensions 26.8 mm x 19.0 mm Op. Temp -30 °C to +90 °C Cable Length 216.0 mm Cable Type* RG-174 Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
 ANT-868-WRT-*	868 MHz Straight Dipole Dome Applications LoRaWAN, Sigfox, Weightless-P	433	1.9	-0.9	Mounting Type Panel Mount Termination RP-SMA Plug SMA Plug U.FL-Type Plug Dimensions 10.0 mm x 19.0 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* RG-174 1.32 mm Ground Plane 102 mm x 102 mm
		Polarization		Linear	
 ANT-916-WRT-*	915 MHz Straight Dipole Dome Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Wavelength		1/2	Mounting Type Panel Mount Termination RP-SMA Plug SMA Plug U.FL-Type Plug Dimensions 10.0 mm x 19.0 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* RG-174 1.32 mm Ground Plane 102 mm x 102 mm
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

SUB-1 GHZ LPWA & ISM

External

PCB Screw Mount							
LP Series		Overview	Electrical Data			Mechanical Data	
 ANT-433-PW-LP		433 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type PCB Screw Termination Screw Lug Dimensions 50.5 mm x 10.4 mm Op. Temp -20 °C to +85 °C Ground Plane 38.1 mm x 83.8 mm	
		Applications	433	1.9	-1.9		
			Polarization		Linear		
			Wavelength		1/4		
			Electrical Type		Monopole		
			Radiation Pattern		Omnidirectional		
			Impedance (Ohms)		50		
 ANT-868-PW-LP		868 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type PCB Screw Termination Screw Lug Dimensions 50.5 mm x 10.4 mm Op. Temp -20 °C to +85 °C Ground Plane 38.1 mm x 83.8 mm	
		Applications	868	1.9	2.1		
			Polarization		Linear		
			Wavelength		1/4		
			Electrical Type		Monopole		
			Radiation Pattern		Omnidirectional		
			Impedance (Ohms)		50		
 ANT-916-PW-LP		915 MHz Straight Monopole Whip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type PCB Screw Termination Screw Lug Dimensions 50.5 mm x 10.4 mm Op. Temp -20 °C to +85 °C Ground Plane 38.1 mm x 83.8 mm	
		Applications	915	1.9	2.4		
			Polarization		Linear		
			Wavelength		1/4		
			Electrical Type		Monopole		
			Radiation Pattern		Omnidirectional		
			Impedance (Ohms)		50		
LPN Series							
 ANT-8/9-PW-LPN		868 MHz/915 MHz LPWA	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Panel Mount Termination SMA Plug Dimensions 46.9 mm x Ø6.0 mm Op. Temp -40 °C to +85 °C	
		Helical Monopole	868	2.5	5.8		
		Applications	915	1.7	6.8		
			Polarization		Linear		
			Wavelength		1/4		
			Electrical Type		Monopole		
			Radiation Pattern		Omnidirectional		
	Impedance (Ohms)		50				

SUB-1 GHZ LPWA & ISM

External

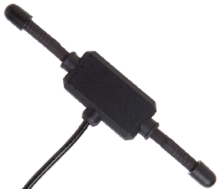
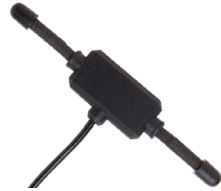
PCB Screw Mount							
RA Series		Overview	Electrical Data			Mechanical Data	
 ANT-433-PW-RA	433 MHz Tilt/Swivel Monopole Whip Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type PCB Screw Termination Screw Lug Dimensions 131.5 mm x 7.0 mm Op. Temp -20 °C to +60 °C Ground Plane 62.2 mm x 100.3 mm		
		(MHz)	(max)	(dBi)			
		433	2.0	-0.7			
		Polarization	Linear				
		Wavelength	1/4				
 ANT-868-PW-RA	868 MHz Tilt/Swivel Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type PCB Screw Termination Screw Lug Dimensions 99.0 mm x 7.0 mm Op. Temp -20 °C to +60 °C Ground Plane 62.2 mm x 100.3 mm		
		(MHz)	(max)	(dBi)			
		868	1.9	2.1			
		Polarization	Linear				
		Wavelength	1/4				
 ANT-916-PW-RA	915 MHz Tilt/Swivel Monopole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type PCB Screw Termination Screw Lug Dimensions 99.0 mm x 7.0 mm Op. Temp -20 °C to +60 °C Ground Plane 62.2 mm x 100.3 mm		
		(MHz)	(max)	(dBi)			
		915	1.9	2.4			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				

Remote

Adhesive Mount					
HDP-IND Series	Overview	Electrical Data			Mechanical Data
 ANT-8/9-HDP-2000-*	LPWA Dual-Band Straight Dipole Adhesive Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Termination RP-SMA Plug SMA Plug Dimensions 104.0 mm x 17.0 mm x 4.2 mm Op. Temp -40 °C to +85 °C Cable Length 2.0 m Cable Type RG-174/U
		(MHz)	(max)	(dBi)	
		862 - 876	1.8	0.6	
		902 - 930	1.9	0.4	
		Polarization	Linear		
		Wavelength	1/2		
Electrical Type	Dipole				
Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50				

SUB-1 GHZ LPWA & ISM

Remote

Adhesive Mount					
MHW Series	Overview	Electrical Data			Mechanical Data
 ANT-433-MHW-*	433 MHz Dipole Adhesive Applications LoRaWAN, Weightless-P, Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Termination RP-SMA Plug SMA Plug Dimensions 145.0 mm x 15.5 mm x 9.7 mm Op. Temp -20 °C to + 70 °C Cable Length* 4.6 m 2.0 m Cable Type RG-174
		(MHz)	(max)	(dBi)	
		433	1.9	1.2	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-868-MHW-*	868 MHz Dipole Adhesive Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Termination RP-SMA Plug SMA Plug Dimensions 138.0 mm x 15.5 mm x 9.7 mm Op. Temp -20 °C to + 70 °C Cable Length* 4.6 m 2.0 m Cable Type RG-174
		(MHz)	(max)	(dBi)	
		868	1.3	4.0	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-916-MHW-*	915 MHz Dipole Adhesive Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Termination RP-SMA Plug SMA Plug Dimensions 138.0 mm x 15.5 mm x 9.7 mm Op. Temp -20 °C to + 70 °C Cable Length* 4.6 m 2.0 m Cable Type RG-174
		(MHz)	(max)	(dBi)	
		915	1.9	5.4	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
VDP-IND Series					
 ANT-8/9-VDP-2000-*	LPWA Multiband Straight Dipole Adhesive Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Termination RP-SMA Plug SMA Plug Dimensions 115.0 mm x 22.0 mm x 6.3 mm Op. Temp -40 °C to +85 °C Cable Length* 2.0 m Cable Type RG-174/U
		(MHz)	(max)	(dBi)	
		862 - 876	1.8	4.5	
		902 - 930	2.1	3.5	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

SUB-1 GHZ LPWA & ISM

Remote

Magnetic Mount						
MMG Series	Overview	Electrical Data			Mechanical Data	
 ANT-8/9-MMG1-SMA-*	LPWA Multiband Straight Dipole Magnetic Mount Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Magnetic Termination SMA Plug Dimensions 82.8 mm x Ø30.0 mm Op. Temp -20 °C to +80 °C Cable Length* 1 m, 2 m, 3 m Cable Type RG-174/U	
		(MHz)	(max)	(dBi)		
		862 - 876	2.0	2.0		
		902 - 930	2.1	2.3		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
Impedance (Ohms)	50					
 ANT-8/9-MMG2-SMA-*	LPWA Multiband Straight Dipole Magnetic Mount Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Magnetic Termination SMA Plug Dimensions 88.5 mm x Ø29.0 mm Op. Temp -20 °C to +80 °C Cable Length* 1 m, 2 m, 3 m Cable Type RG-174/U	
		(MHz)	(max)	(dBi)		
		862 - 876	1.4	3.0		
		902 - 930	1.6	3.0		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
Impedance (Ohms)	50					

Bracket Mount						
ID Series						
 ANT-868-ID-1000-*	868 MHz Straight Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P	Frequency	VSWR	Peak Gain	Mounting Type Bracket Mount Termination RP-SMA Plug SMA Plug Dimensions 124.6 mm x 31.2 mm x 11.9 mm Op. Temp -40 °C to +80 °C Cable Length* 1.0 m 2.0 m Cable Type RG-58/U	
		(MHz)	(max)	(dBi)		
		868	1.9	0.6		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
 ANT-916-ID-1000-*	915 MHz Straight Dipole Whip Applications LoRaWAN, Sigfox, Weightless-P, WiFi HaLow	Frequency	VSWR	Peak Gain	Mounting Type Bracket Mount Termination RP-SMA Plug SMA Plug Dimensions 124.6 mm x 31.2 mm x 11.9 mm Op. Temp -40 °C to +80 °C Cable Length* 1.0 m 2.0 m Cable Type RG-58/U	
		(MHz)	(max)	(dBi)		
		915	1.9	1.6		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			

WIFI/WLAN

Linx dual-band 2.4 GHz, 5 GHz and 6 GHz antenna solutions target wireless LAN (WiFi/WLAN) applications

including:

- WiFi 6E
- WiFi 6
- WiFi 5
- WiFi 4
- U-NII 1-8
- 802.11b/g/n/ac

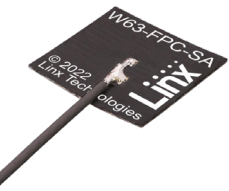
Internal/Embedded

Surface Mount

nanoSplash™ Series		Overview	Electrical Data				Mechanical Data	
 ANT-DB1-nSP250-T	WiFi/WLAN Dual-Band Monopole Chip	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Surface Mount	
	Applications WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	2400 - 2500	2.0	2.7	65	Termination	Solder Pad	
		5150 - 5725	2.2	4.3	60	Dimensions	9.6 mm x 8.4 mm x 1.1 mm	
		5725 - 5850	2.4	3.7	70	Op. Temp	-40 °C to +130 °C	
		Polarization		Linear		Ground Plane	40 mm x 20 mm	
		Wavelength		1/4				
		Electrical Type		Monopole				
		Radiation Pattern		Omnidirectional				
		Impedance (Ohms)		50				
Adhesive Mount								
FPC Series								
 ANT-W63-FPC-UFL-100	WiFi/WLAN Multiband Dipole	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type	Adhesive Mount	
	Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	2400 - 2485	1.2	6.1	80	Termination	U.FL-Type Plug	
		5150 - 5850	3.3	6.1	74	Dimensions	110.0 mm x 20.0 mm x 0.2 mm	
		5925 - 7125	2.6	6.9	69	Op. Temp	-40 °C to +85 °C	
		Polarization		Linear		Cable Length	110.0 mm	
		Wavelength		1/2		Cable Type	1.13 mm	
		Electrical Type		Dipole				
		Radiation Pattern		Omnidirectional				
		Impedance (Ohms)		50				

WIFI/WLAN

Internal/Embedded

Adhesive Mount						
FPC Series	Overview	Electrical Data				Mechanical Data
 ANT-W63-FPC-LH*	WiFi/WLAN Multiband Dipole Flexible Patch Orthogonal Cable Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz) 2400 - 2485 5150 - 5895 5950 - 7125 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.4 1.7 1.8	Peak Gain (dBi) 4.5 6.3 10.1	Efficiency (%) 90 84 78	Mounting Type Adhesive Termination U.FL-Type Plug MHF4 Plug Dimensions 45.0 mm x 7.0 mm x 0.1 mm Op. Temp -40 °C to +85 °C Cable Length* 50 mm, 100.0 mm, 150 mm, 200 mm Cable Type 1.13 mm
 ANT-W63-FPC-LV*	WiFi/WLAN Multiband Dipole Flexible Patch Inline Cable Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz) 2400 - 2485 5150 - 5895 5950 - 7125 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.5 1.6 1.5	Peak Gain (dBi) 4.8 6.3 7.4	Efficiency (%) 79 82 77	Mounting Type Adhesive Termination U.FL-Type Plug MHF4 Plug Dimensions 45.0 mm x 7.0 mm x 0.1 mm Op. Temp -40 °C to +85 °C Cable Length* 50 mm, 100.0 mm, 150 mm, 200 mm Cable Type 1.13 mm
 ANT-W63-FPC-SH*	WiFi/WLAN Multiband Dipole Flexible Patch Orthogonal Cable Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz) 2400 - 2485 5150 - 5895 5950 - 7125 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.5 1.6 1.8	Peak Gain (dBi) 4.7 7.8 8.5	Efficiency (%) 90 83 81	Mounting Type Adhesive Termination U.FL-Type Plug MHF4 Plug Dimensions 25.3 mm x 20.3 mm x 0.1 mm Op. Temp -40 °C to +85 °C Cable Length* 50 mm, 100.0 mm, 150 mm, 200 mm Cable Type 1.13 mm
 ANT-W63-FPC-SAH*	WiFi/WLAN Multiband Dipole Flexible Patch Orthogonal Cable Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz) 2400 - 2485 5150 - 5895 5950 - 7125 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 3.4 3.4 2.4	Peak Gain (dBi) 0.6 7.2 6.3	Efficiency (%) 32 64 53	Mounting Type Adhesive Termination U.FL-Type Plug MHF4 Plug Dimensions 12.4 mm x 12.0 mm x 0.1 mm Op. Temp -40 °C to +85 °C Cable Length* 50 mm, 100.0 mm, 150 mm Cable Type 0.81 mm

WIFI/WLAN

Internal/Embedded

Adhesive Mount						
FPC Series	Overview	Electrical Data				Mechanical Data
 ANT-W63-FPC2-UFL-100	WiFi/WLAN Multiband Dipole Flexible Patch Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz) 2400 - 2485 5150 - 5850 5925 - 7125 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 2.4 1.4 2.4 Linear 1/2 Dipole Omnidirectional 50	Peak Gain (dBi) 3.2 7.7 8.4 Efficiency (%) 61 72 57	Mounting Type Adhesive Termination U.FL-Type Plug Dimensions 42.0 mm x 12.0 mm x 0.2 mm Op. Temp -40 °C to +85 °C Cable Length* 50 mm, 100.0 mm, 150 mm, 200 mm Cable Type 1.13 mm	
RPC Series						
 ANT-W63RPC1-*	WiFi/WLAN Dual-Band Adhesive Dipole Rigid PCB Applications WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz) 2400 - 2485 5150 - 5850 5925 - 7125 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 1.8 2.1 1.6 Linear 1/2 Dipole Omnidirectional 50	Peak Gain (dBi) 3.7 6.1 5.9 Efficiency (%) 69 69 66	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 43.0 mm x 11.0 mm x 1.3 mm Op. Temp -40 °C to +85 °C Cable Length* 50 mm, 100.0 mm, 150 mm, 200 mm Cable Type 1.13 mm	
Through-Hole Mount						
MSA Series						
 ANT-W63-MSA-TH1	WiFi/WLAN Multiband Stamped Metal Monopole Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz) 2400 - 2500 5150 - 5895 5950 - 7125 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 2.9 1.9 3.2 Linear 1/4 Monopole Omnidirectional 50	Peak Gain (dBi) 3.5 3.8 3.8 Efficiency (%) 54 61 55	Mounting Type Through-hole Termination Solder Pin Dimensions 15.0 mm x 17.2 mm x 9.8 mm Op. Temp -40 °C to +85 °C Ground Plane 40 mm x 50 mm	

WIFI/WLAN

External

Connector Mount							
IPW Series	Overview	Electrical Data				Mechanical Data	
 ANT-W63-IPW1-NP	WiFi/WLAN Outdoor	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination N Plug Dimensions 178.0 mm x Ø25.0 mm Op. Temp -40 °C to +70 °C	
	Multiband Dipole	2400 - 2485	4.1	3.2	64		
	Applications	5150 - 5850	2.0	8.7	82		
	WiFi 6E, WiFi 6,	5925 - 7125	2.3	5.5	72		
	WiFi 5, WiFi 4, U-NII,	Polarization	Linear				
	802.11, Bluetooth,	Wavelength	1/2				
	ZigBee, 802.15.4	Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50					
 ANT-W63-IPW2-NP	WiFi/WLAN Outdoor	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination N Plug Dimensions 132.0 mm x Ø24.0 mm Op. Temp -30 °C to +70 °C	
	Multiband Dipole	2400 - 2485	1.7	1.6	39		
	Applications	5150 - 5850	1.7	5.0	62		
	WiFi 6E, WiFi 6,	5925 - 7125	2.8	5.6	52		
	WiFi 5, WiFi 4, U-NII,	Polarization	Linear				
	802.11, Bluetooth,	Wavelength	1/2				
	ZigBee, 802.15.4	Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50					

WIFI/WLAN

External

Connector Mount						
LCD Series	Overview	Electrical Data				Mechanical Data
 ANT-DB1-LCD-*	WiFi/WLAN Dual-Band Hinged Dipole Whip Applications WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 83.1 mm x 10.0 mm Op. Temp -40 °C to +80 °C
		2400 - 2485	2.0	2.8	85	
		5150 - 5725	2.0	4.5	70	
		5725 - 5850	2.0	2.9	65	
		Polarization		Linear		
		Wavelength		1/2		
		Electrical Type		Dipole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		
MON Series						
 ANT-W63-MON-*	WiFi 6E/WiFi 6 Multiband Hinged Monopole Whip Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 72.0 mm x Ø9.5 mm Op. Temp -40 °C to +130 °C Ground Plane 102 mm x 102 mm
		2400 - 2485	2.4	3.2	65	
		5150 - 5850	2.3	4.2	62	
		5925 - 7125	2.0	3.4	51	
		Polarization		Linear		
		Wavelength		1/4		
		Electrical Type		Monopole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		
RAF Series						
 ANT-DB1-RAF-*	WiFi/WLAN Dual-Band Tilt/Swivel Dipole Whip Applications WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 104.9 mm x 11.0 mm
		2400 - 2485	1.9	2.5		
		5150 - 5850	1.9	4.6		
		Polarization		Linear		
		Wavelength		1/2		
		Electrical Type		Dipole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		

WIFI/WLAN

External

Connector Mount						
WS Series	Overview	Electrical Data				Mechanical Data
 ANT-W63WS1-*	WiFi/WLAN Multiband Hinged Dipole Blade Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz) 2400 - 2485 5150 - 5850 5925 - 7125 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 2.3 1.7 2.3	Peak Gain (dBi) 7.7 5.8 4.7	Efficiency (%) 58 62 59	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 85,5 mm x 16,4 mm x 11,5 mm Op. Temp -20 °C to +65 °C
 ANT-W63WS2-*	WiFi/WLAN Multiband Hinged Dipole Blade Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz) 2400 - 2485 5150 - 5850 5925 - 7125 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.5 1.5 1.5	Peak Gain (dBi) 2.1 4.7 4.8	Efficiency (%) 83 89 84	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 133,5 mm x 20,1 mm x 10,0 mm Op. Temp -30 °C to +85 °C
 ANT-W63WS3-SMA	WiFi/WLAN Multiband Hinged Dipole Blade Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz) 2400 - 2485 5150 - 5850 5925 - 7125 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 2.3 1.8 3.5	Peak Gain (dBi) 2.4 5.0 5.3	Efficiency (%) 40 66 58	Mounting Type Connector Mount Termination SMA Plug Dimensions 135,7 mm x 20,1 mm x 10,0 mm Op. Temp -20 °C to +65 °C
 ANT-W63WS4-*	WiFi/WLAN Multiband Hinged Dipole Blade Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency (MHz) 2400 - 2485 5150 - 5850 5925 - 7125 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.2 1.6 1.8	Peak Gain (dBi) 2.6 5.5 5.5	Efficiency (%) 80 83 74	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 179,6 mm x 22,0 mm x 13,0 mm Op. Temp -20 °C to +65 °C

WIFI/WLAN

External

Panel Mount							
LPD Series	Overview	Electrical Data				Mechanical Data	
 ANT-DB1-LPD-125	WiFi 6E/WiFi 6	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)		
	Multiband Hinged	2400 - 2485	1.5	2.8	85	Mounting Type Panel Mount	
	Dipole Blade	5150 - 5850	1.5	4.5	63	Termination U.FL-Type Plug	
	Applications	Polarization	Linear				
	WiFi 6E, WiFi 6,	Wavelength	1/2				
	WiFi 5, WiFi 4, U-NII,	Electrical Type	Dipole				
	802.11, Bluetooth,	Radiation Pattern	Omnidirectional				
	ZigBee, 802.15.4	Impedance (Ohms)	50				
SPS Series							
 ANT-W63-SPS1-*	WiFi/WLAN Dual-Band	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		Mounting Type Panel Mount	
	Dipole Puck	2400 - 2485	1.5	3.4		Termination SMA Plug	
	Applications	5150 - 5850	1.5	5.1		Dimensions 23.3 mm x Ø54.7 mm	
	WiFi 5, WiFi 4, U-NII,	5925 - 7125	1.4	4.0		Op. Temp -40 °C to +70 °C	
	802.11, Bluetooth,	Polarization	Linear				
	ZigBee,	Wavelength	1/2				
	802.15.4	Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
	Impedance (Ohms)	50					
						Cable Length 1m, 2m or 3m	
						Cable Type RG-174/U	
						Ground Plane 300 mm x 300 mm	

WIFI/WLAN

External

Panel Mount							
WRT Series		Overview	Electrical Data			Mechanical Data	
 ANT-DB1-WRT-*	WiFi/WLAN Dual-Band Straight Dipole Dome Applications WiFi 5, WiFi 4, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency	VSWR	Peak Gain	Mounting Type	Panel Mount	
		(MHz)	(max)	(dBi)	Termination	RP-SMA Plug SMA Plug U.FL-Type Plug MHF4 Type Plug	
		2400 - 2485	1.9	3.2	Dimensions	10.0 mm x Ø19.0 mm	
		5150 - 5850	3.7	6.8	Op. Temp	-40 °C to +90 °C	
		5925 - 7125	4.0	7.0	Cable Length*	216.0 mm	
		Polarization	Linear	Cable Type	RG-174, 1.13 mm, 1.32 mm		
		Wavelength	1/2	Ground Plane	102 mm x 102 mm		
		Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				
 ANT-W63-WRT-*	WiFi/WLAN Dual-Band Straight Dipole Dome Applications WiFi 6E, WiFi 6, WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency	VSWR	Peak Gain	Mounting Type	Panel Mount	
		(MHz)	(max)	(dBi)	Termination	RP-SMA Plug SMA Plug U.FL-Type Plug MHF4 Type Plug	
		2400 - 2485	1.5	4.5	Dimensions	27.0 mm x Ø19.0 mm	
		5150 - 5850	1.4	4.5	Op. Temp	-40 °C to +90 °C	
		5925 - 7125	2.2	6.4	Cable Length*	216.0 mm	
		Polarization	Linear	Cable Type	RG-174, 1.13 mm, 1.32 mm		
		Wavelength	1/2	Ground Plane	102 mm x 102 mm		
		Electrical Type	Dipole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				
WRT-MON Series							
 ANT-DB1-WRT-MON-*	WiFi/WLAN Dual-Band Straight Dipole Dome Applications WiFi 5, WiFi 4, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency	VSWR	Peak Gain	Mounting Type	Panel Mount	
		(MHz)	(max)	(dBi)	Termination	RP-SMA Plug SMA Plug U.FL-Type Plug MHF3 Plug MHF4 Plug	
		2400 - 2485	2.0	1.0	Dimensions	26.8 mm x Ø19.0 mm	
		5725 - 5850	2.0	2.8	Op. Temp	-40 °C to +85 °C	
		Polarization	Linear	Cable Length*	216.0 mm		
		Wavelength	1/4	Cable Type	RG-174		
		Electrical Type	Monopole	Ground Plane	102 mm x 102 mm		
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				

WIFI/WLAN

Remote

Adhesive Mount					
HDP-IND Series	Overview	Electrical Data			Mechanical Data
 ANT-2/5-HDP-2000-*	WiFi/WLAN Multiband Straight Dipole Adhesive Applications WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Termination RP-SMA Plug SMA Plug Dimensions 104.0 mm x 17.0 mm x 4.2 mm Op. Temp -40 °C to +85 °C Cable Length 2.0 m Cable Type RG-174/U
		(MHz)	(max)	(dBi)	
		2400 - 2485	1.5	4.0	
		5150 - 5850	1.4	1.5	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
VDP-IND Series					
 ANT-2/5-VDP-2000-*	WiFi/WLAN Multiband Straight Dipole Adhesive Applications WiFi 5, WiFi 4, U-NII, 802.11, Bluetooth, ZigBee, 802.15.4	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Termination RP-SMA Plug SMA Plug Dimensions 115.0 mm x 22.0 mm x 6.3 mm Op. Temp -40 °C to +85 °C Cable Length 2.0 m Cable Type RG-174/U
		(MHz)	(max)	(dBi)	
		2400 - 2485	1.5	2.4	
		5150 - 5850	1.4	-0.6	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

2.4 GHZ ISM

Linx 2.4 GHz single-band antennas provide a broad range of styles, mounting, termination and levels of performance to accommodate ISM applications including:

- Bluetooth®
- ZigBee®
- IEEE 802.11b/g
- IEEE 802.15.4

Internal/Embedded

Surface Mount							
CHP Series	Overview	Electrical Data				Mechanical Data	
 ANT-2.45-CHP-T	2400 MHz Monopole Ceramic Chip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		Mounting Type Surface Mount Termination Solder Pad Dimensions 2.2 mm x 6.5 mm x 1.0 mm Op. Temp -40 °C to +85 °C Ground Plane 30 mm x 30 mm	
		2400 - 2485	2.0	0.5			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				
microSplatCh™ Series							
 ANT-2.4-USP	2400 MHz Monopole Chip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		Mounting Type Surface Mount Termination Solder Pad Dimensions 12.7 mm x 9.1 mm x 1.6 mm Op. Temp -40 °C to +130 °C Ground Plane 19.6 mm x 38.7 mm	
		2400 - 2485	2.0	3.8			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				
nanoSplatCh™ Series							
 nanoSplatCh™ Series	2400 MHz Monopole Chip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4, 802.11	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Surface Mount Termination Solder Pad Dimensions 9.6 mm x 8.4 mm x 1.1 mm Op. Temp -40 °C to +130 °C Ground Plane 40 mm x 20 mm	
		2400 - 2485	2.0	2.7	65		
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
		Impedance (Ohms)	50				

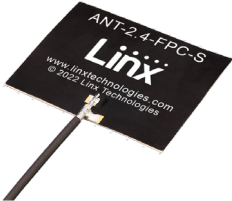
2.4 GHZ ISM

Internal/Embedded

Adhesive Mount					
FPC Series	Overview	Electrical Data			Mechanical Data
 ANT-2.4-FPC-LH*	2400 MHz Multiband Dipole Flexible Patch Orthogonal Cable Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Mount Termination U.FL-Type Plug MHF4 Plug MMCX Plug Dimensions 45.2 mm x 7.2 mm x 0.1 mm Op. Temp -40 °C to +85 °C Cable Length 50 mm, 100 mm, 150 mm, 200 mm Cable Type 1.13 mm
		(MHz) 2400 - 2500	(max) 1.4	(dBi) 6.1	
 ANT-2.4-FPC-LV*	2400 MHz Multiband Dipole Flexible Patch Inline Cable Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Mount Termination U.FL-Type Plug MHF4 Plug MMCX Plug Dimensions 45.2 mm x 7.2 mm x 0.1 mm Op. Temp -40 °C to +85 °C Cable Length 50 mm, 100 mm, 150 mm, 200 mm Cable Type 1.13 mm
		(MHz) 2400 - 2500	(max) 1.7	(dBi) 4.3	
 ANT-2.4-FPC-SAH*	2400 MHz Multiband Dipole Flexible Patch Orthogonal Cable Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Mount Termination U.FL-Type Plug MHF4 Plug Dimensions 45.2 mm x 7.2 mm x 0.1 mm Op. Temp -40 °C to +85 °C Cable Length 50 mm, 100 mm, 150 mm Cable Type 0.81 mm
		(MHz) 2400 - 2500	(max) 4.1	(dBi) 0.1	

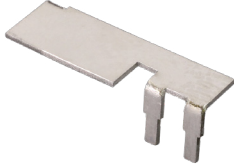
2.4 GHZ ISM

Internal/Embedded

Adhesive Mount					
FPC Series	Overview	Electrical Data			Mechanical Data
 ANT-2.4-FPC-SH*	2400 MHz Multiband Dipole Flexible Patch Orthogonal Cable Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Adhesive Mount Termination U.FL-Type Plug MHF4 Plug Dimensions 25.4 mm x 20.1 mm x 0.1 mm Op. Temp -40 °C to +85 °C Cable Length 50 mm, 100 mm, 150 mm, 200 mm Cable Type 1.13 mm
		(MHz) 2400 - 2500	(max) 1.4	(dBi) 4.0	
 ANT-2.4-FPC-SF*	2400 MHz Multiband Dipole Flexible Patch Flag Style Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Polarization		Linear	Mounting Type Adhesive Mount Termination U.FL-Type Plug MHF4 Plug Dimensions 25.4 mm x 20.1 mm x 0.1 mm Op. Temp -40 °C to +85 °C Cable Length 50 mm, 100 mm, 150 mm, 200 mm Cable Type 1.13 mm
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

2.4 GHZ ISM

Internal/Embedded

Through Hole Mount						
CPA Series	Overview	Electrical Data				Mechanical Data
 ANT-2.4-CPA	2400 MHz Radiating Ceramic Patch Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Efficiency (%)	Mounting Type Through Hole Termination Solder Pin Dimensions 20.0 mm x 20.0 mm x 4.0mm Op. Temp -40 °C to +85 °C Ground Plane 40 mm x 40 mm
		2400 - 2485	2.7	5.5	88	
		Polarization		RHCP		
		Wavelength		1/4		
		Electrical Type		Radiating Patch		
		Radiation Pattern		Directional		
		Impedance (Ohms)		50		
JJB Series						
 ANT-2.4-JJB-RA	2400 MHz Right Angle Monopole Dome Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		Mounting Type Through Hole Termination Solder Pin Dimensions 14.5 mm x 7.0 mm Op. Temp -40 °C to +90 °C Ground Plane 38 mm x 84 mm
		2400 - 2485	2.0	3.3		
		Polarization		Linear		
		Wavelength		1/4		
		Electrical Type		Monopole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		
 ANT-2.4-JJB-ST	2400 MHz Straight Monopole Dome Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		Mounting Type Through Hole Termination Solder Pin Dimensions 17.6 mm x 7.0 mm Op. Temp -40 °C to +90 °C Ground Plane 89 mm x 89 mm
		2400 - 2485	2.0	-1.5		
		Polarization		Linear		
		Wavelength		1/4		
		Electrical Type		Monopole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		
MSA Series						
 ANT-2.4-MSA-TH1	2400 MHz Monopole Stamped Metal Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)		Mounting Type Through Hole Termination Solder Pin Dimensions 16.7 mm x 5.8 mm x 5.4 mm Op. Temp -40 °C to +85 °C Ground Plane 40 mm x 50 mm
		2400 - 2500	1.3	3.7		
		Polarization		Linear		
		Wavelength		1/4		
		Electrical Type		Monopole		
		Radiation Pattern		Omnidirectional		
		Impedance (Ohms)		50		

2.4 GHZ ISM

External

Connector Mount					
CT Series	Overview	Electrical Data			Mechanical Data
 ANT-2.4-CW-CT-*	2400 MHz Straight Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 113.0 mm x 10.0 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm
		2400 - 2485	1.9	2.8	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
CW Series					
 ANT-2.4-CW-QW-*	2400 MHz Straight Monopole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 105.0 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm
		2400 - 2485	1.9	1.1	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
HW Series					
 ANT-2.4-CW-HW-*	2400 MHz Straight Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 120.0 mm x 10.7 mm Op. Temp -30 °C to +85 °C Ground Plane 102 mm x 102 mm
		2400 - 2485	2.0	3.2	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-2.4-CW-HW-T	2400 MHz Straight Dipole Whip, added UV resistance Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 120.0 mm x 10.7 mm Op. Temp -30 °C to +85 °C Ground Plane 102 mm x 102 mm
		2400 - 2485	2.0	3.2	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

2.4 GHZ ISM

External

Connector Mount					
HWR Series	Overview	Electrical Data			Mechanical Data
 ANT-2.4-CW-HWR-*	2400 MHz Tilt/Swivel Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 142.0 mm x 10.0 mm Op. Temp -30 °C to +80 °C Ground Plane 102 mm x 102 mm
		(MHz) 2400 - 2485	(max) 2.0	(dBi) 3.2	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
LCW Series					
 ANT-2.4-LCW-*	2400 MHz Hinged Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 83.1 mm x 10.0 mm Op. Temp -40 °C to +80 °C
		(MHz) 2400 - 2485	(max) 2.0	(dBi) 2.8	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
OC Series					
 ANT-2.4-OC-LG-*	2400 MHz Tilt/Swivel Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 193.5 mm x 10.0 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm
		(MHz) 2400 - 2485	(max) 2.0	(dBi) 4.0	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

2.4 GHZ ISM

External

Connector Mount					
RAH Series	Overview	Electrical Data			Mechanical Data
 ANT-2.4-CW-RAH-*	2400 MHz Right Angle Monopole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 25.6 mm x 17.1 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm
		(MHz) 2400 - 2485	(max) 2.0	(dBi) 1.6	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
RCL Series					
 ANT-2.4-CW-RCL-*	2400 MHz Right Angle Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 88.0 mm x 16.6 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm
		(MHz) 2400 - 2485	(max) 1.9	(dBi) 1.1	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
RCS Series					
 ANT-2.4-CW-RCS-*	2400 MHz Right Angle Monopole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 53.5 mm x 16.6 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm
		(MHz) 2400 - 2485	(max) 1.9	(dBi) -0.2	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
RCT Series					
 ANT-2.4-CW-RCT-*	2400 MHz Right Angle Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 113.0 mm x 10.0 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm
		(MHz) 2400 - 2485	(max) 1.9	(dBi) 2.2	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

2.4 GHZ ISM

External

Connector Mount					
RH Series	Overview	Electrical Data			Mechanical Data
 ANT-2.4-CW-RH-*	2400 MHz Straight Monopole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 27.0 mm x 7.8 mm Op. Temp -30 °C to +90 °C Ground Plane 102 mm x 102 mm
		(MHz) 2400 - 2485	(max) 2.0	(dBi) -0.9	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
Panel Mount					
LPW Series					
 ANT-2.4-LPW-125	2400 MHz Hinged Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination U.FL-Type Plug Dimensions 88.0 mm x 9.4 mm Op. Temp -20 °C to +85 °C Cable Length 125.0 mm Cable Type 1.13 mm
		(MHz) 2400 - 2485	(max) 1.5	(dBi) 2.8	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
PML Series					
 ANT-2.4-PML-*	2400 MHz Tilt/Swivel Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 150.3 mm x 12.1 mm Op. Temp -40 °C to +90 °C Cable Length 305.0 mm Cable Type 1.32 mm RG-178 Ground Plane 102 mm x 102 mm
		(MHz) 2400 - 2485	(max) 1.9	(dBi) 2.4	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
PW Series					
 ANT-2.4-PW-QW-*	2400 MHz Straight Monopole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 105.0 mm x 14.5 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type 1.32 mm RG-174 Ground Plane 102 mm x 102 mm
		(MHz) 2400 - 2485	(max) 1.9	(dBi) 1.6	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

2.4 GHZ ISM

External

Panel Mount					
WRT Series	Overview	Electrical Data			Mechanical Data
 ANT-2.4-WRT-*	2400 MHz Straight Dipole Dome Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz) 2400 - 2485 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 1.9 Linear 1/2 Dipole Omnidirectional 50	Peak Gain (dBi) 3.5	Mounting Type Panel Mount Termination RP-SMA Plug SMA Plug U.FL-Type Plug Dimensions 10.0 mm x 19.0 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type 1.32 mm RG-174
WRT-MON Series					
 ANT-2.4-WRT-MON-*	2400 MHz Straight Monopole Dome Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz) 2400 - 2485 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 1.9 Linear 1/4 Monopole Omnidirectional 50	Peak Gain (dBi) 0.8	Mounting Type Panel Mount Termination RP-SMA Plug SMA Plug U.FL-Type Plug Dimensions 26.8 mm x 19.0 mm Op. Temp -40 °C to +85 °C Cable Length 216.0 mm Cable Type 1.32 mm RG-174 Ground Plane 102 mm x 102 mm
PCB Screw Mount					
LP Series					
 ANT-2.4-PW-LP	2400 MHz Straight Monopole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz) 2400 - 2485 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 1.9 Linear 1/4 Monopole Omnidirectional 50	Peak Gain (dBi) -1.9	Mounting Type PCB Screw Termination Screw Lug Dimensions 50.5 mm x 10.4 mm Op. Temp -20 °C to +85 °C Ground Plane 38.1 mm x 83.8 mm
LPN Series					
 ANT-2.4-PW-LPN	2400 MHz Helical Monopole Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz) 2400 - 2485 Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	VSWR (max) 2.0 Linear 1/4 Monopole Omnidirectional 50	Peak Gain (dBi) 4.5	Mounting Type PCB Screw Termination Screw Lug Dimensions 46.9 mm x Ø6.0 mm Op. Temp -40 °C to +85 °C Ground Plane 40 mm x 80 mm

2.4 GHZ ISM

Remote

Base Screw Mount					
ELE Series	Overview	Electrical Data			Mechanical Data
 ANT-ELE-S01-011	2400 MHz Straight Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4 Use with MAG Series Remote Mount Base	Frequency (MHz) 2400 - 2485 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 2.0		Mounting Type Base Screw Termination Screw Base Dimensions 25.9 mm x 10.0 mm Op. Temp -40 °C to +80 °C
Magnetic Mount					
MMG Series					
 ANT-2.4-MMG1-SMA-*	2400 MHz Straight Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz) 2400 - 2485 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.8	Peak Gain (dBi) 0.7	Mounting Type Magnetic Mount Termination SMA Plug Dimensions 82.8 mm x Ø30.0 mm Op. Temp -20 °C to +80 °C Cable Length 1 m, 2 m, 3 m Cable Type RG-174/U
 ANT-2.4-MMG2-SMA-*	2400 MHz Straight Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz) 2400 - 2485 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 2.2	Peak Gain (dBi) 2.8	Mounting Type Magnetic Mount Termination SMA Plug Dimensions 88.5 mm x Ø29.0 mm Op. Temp -20 °C to +80 °C Cable Length 1 m, 2 m, 3 m Cable Type RG-174/U
Bracket Mount					
ID Series					
 ANT-2.4-ID-1000-*	2400 MHz Straight Dipole Whip Applications Bluetooth, ZigBee, 802.15.4, WiFi 4	Frequency (MHz) 2400 - 2485 Polarization Linear Wavelength 1/2 Electrical Type Dipole Radiation Pattern Omnidirectional Impedance (Ohms) 50	VSWR (max) 1.9	Peak Gain (dBi) 3.0	Mounting Type Bracket Mount Termination RP-SMA Plug SMA Plug Dimensions 8119.4 mm x 31.2 mm x12.4 mm Op. Temp -40 °C to +80 °C Cable Length 1.0 m 2.0 m Cable Type RG-58/U

GNSS ANTENNAS

Linx offers global navigation satellite system (GNSS) antennas for systems including:

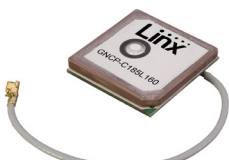
- GPS
- Galileo
- GLONASS
- COMPASS/Beidou

Internal/Embedded

Surface Mount					
SM-CP Series	Overview	Electrical Data			Mechanical Data
 ANT-GNSSCP-SM12L1	L1/E1/B1 Dual-Band Ceramic Patch Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination Solder Pad Dimensions 12.0 mm x 12.0 mm x 4.0 mm Op. Temp -40 °C to +105 °C Ground Plane 50 mm x 50 mm
		(MHz)	(max)	(dBi)	
		1567.24 - 1583.6	7.0	2.9	
		1593.31 - 1608.68	6.1	1.0	
		Polarization		RHCP	
		Wavelength		1/4	
		Electrical Type		Radiating Patch	
		Radiation Pattern		Directional	
		Impedance (Ohms)		50	
Adhesive/Mechanical Mount					
SM-CP Series					
 ANT-GNCP-CA158L160	L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination U.FL-Type Plug Dimensions 15.0 mm x 15.0 mm x 6.6 mm Op. Temp -40 °C to +85 °C Cable Length 60 mm Cable Type 1.13 mm
		(MHz)	(max)	(dBi)	
		1559.05 - 1563.14	3.5	6.7	
		1567.24 - 1583.60	2.4	13.9	
		1587.69 - 1591.79	1.5	13.9	
		1593.31 - 1608.68	1.4	12.4	
		Polarization		RHCP	
		Wavelength		1/4	
		Electrical Type		Radiating Patch	
		Radiation Pattern		Directional	
		Impedance (Ohms)		50	
 ANT-GNCP-CA188L165	L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination U.FL-Type Plug Dimensions 18.0 mm x 18.0 mm x 7.1 mm Op. Temp -40 °C to +85 °C Cable Length 65 mm Cable Type 1.13 mm
		(MHz)	(max)	(dBi)	
		1559.05 - 1563.14	1.1	10.6	
		1567.24 - 1583.60	1.1	13.7	
		1587.69 - 1591.79	1.1	14.1	
		1593.31 - 1608.68	1.1	14.1	
		Polarization		RHCP	
		Wavelength		1/4	
		Electrical Type		Radiating Patch	
		Radiation Pattern		Directional	
		Impedance (Ohms)		50	

GNSS ANTENNAS

Internal/Embedded

Adhesive/Mechanical Mount					
SM-CP Series	Overview	Electrical Data			Mechanical Data
 ANT-GNCP-C106L160	L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Surface Mount Termination F1/U.FL-Type Plug Dimensions 10.0 mm x 10.0 mm x 6.0 mm Op. Temp -40 °C to +85 °C Cable Length 60 mm Cable Type 0.81 mm
		1561 1575 1601/1602	1.8 2.1 3.1	14.1 24.4 26.4	
 ANT-GNCP-C185L160	L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Surface Mount Termination F1/U.FL-Type Plug Dimensions 18.0 mm x 18.0 mm x 4.5 mm Op. Temp -40 °C to +85 °C Cable Length 60 mm Cable Type 0.81 mm
		1561 1575 1601/1602	1.6 1.7 1.7	9.3 16.3 13.8	
 ANT-GNCP-C257L160	L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Surface Mount Termination F1/U.FL-Type Plug Dimensions 25.1 mm x 25.1 mm x 7.4 mm Op. Temp -40 °C to +85 °C Cable Length 60 mm Cable Type 0.81 mm
		1561 1575 1601/1602	1.5 1.7 2.1	27.8 34.5 36.14	
 ANT-GNCP-C357L160	L1/E1/B1 Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Surface Mount Termination F1/U.FL-Type Plug Dimensions 35.0 mm x 35.0 mm x 6.9 mm Op. Temp -40 °C to +85 °C Cable Length 60 mm Cable Type 0.81 mm
		1561 1575 1601/1602	1.5 1.7 1.3	27.2 34.7 34.0	

GNSS ANTENNAS

Internal/Embedded

Adhesive/Mechanical Mount					
SM-CP Series	Overview	Electrical Data			Mechanical Data
 ANT-GNCP-C25L12100	L1/E1/B1 I2/E5/B2B Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	Frequency	VSWR	Peak Gain	Mounting Type Surface Mount Termination MHF1/U.FL-Type Plug Dimensions 25.1 mm x 25.1 mm x 12.0 mm Op. Temp -40 °C to +85 °C Cable Length 100 mm Cable Type 1.13 mm
		(MHz)	(max)	(dBi)	
 ANT-GNCP-C25L15100	L1/E1/B1 L5/E5/B2A Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	1202/1207	2.3	29.6	Mounting Type Surface Mount Termination MHF1/U.FL-Type Plug Dimensions 25.1 mm x 25.1 mm x 12.0 mm Op. Temp -40 °C to +85 °C Cable Length 100 mm Cable Type 1.13 mm
		1228	2.3	29.6	
 ANT-GNCP-C25L125100	L1/E1/B1 L2/E5/B2B L5/E5/B2A Multiband Active Ceramic Patch with integrated low noise amplifier (LNA) Applications Location, Timing, GPS, Galileo, GLONASS, Beidou, QZSS	1246/1248	1.5	17.1	Mounting Type Surface Mount Termination MHF1/U.FL-Type Plug Dimensions 25.1 mm x 25.1 mm x 12.0 mm Op. Temp -40 °C to +85 °C Cable Length 100 mm Cable Type 1.13 mm
		1561	1.6	23.8	
		1575	1.6	33.0	
		1601/1602	1.4	29.2	
		Polarization		RHCP	
		Wavelength		1/4	
		Electrical Type		Radiating Patch	
		Radiation Pattern		Directional	
		Impedance (Ohms)		50	
		Frequency	VSWR	Peak Gain	
		(MHz)	(max)	(dBi)	
		1176	1.8	27.3	
		1561	1.3	20.2	
		1575	1.3	31.7	
		1601/1602	1.2	14.8	
		Polarization		RHCP	
		Wavelength		1/4	
		Electrical Type		Radiating Patch	
		Radiation Pattern		Directional	
		Impedance (Ohms)		50	
		Frequency	VSWR	Peak Gain	
		(MHz)	(max)	(dBi)	
		1176	2.2	30.8	
		1202/1207	1.4	18.2	
		1228	1.6	25.0	
		1246/1248	1.3	10.2	
		1561	1.4	31.5	
		1575	1.7	31.6	
		1601/1602	1.4	28.4	
		Polarization		RHCP	
		Wavelength		1/4	
		Electrical Type		Radiating Patch	
		Radiation Pattern		Directional	
		Impedance (Ohms)		50	

Internal/Embedded

TH-CP Series

Overview

Electrical Data

Mechanical Data



A close-up photograph of a Linx TH25AL12 memory module. The module is a small, square, white component with a purple top surface. It is mounted on a larger, brown printed circuit board (PCB). The Linx logo and the part number TH25AL12 are visible on the top surface.

ANT-GNCP-TH25AL12

L1/E1/B1 L2/L2C
Multiband Ceramic
Patch
Applications
Location, Timing, GPS,
Galileo, GLONASS,
Beidou,
QZSS

Frequency	VSWR	Peak Gain
(MHz)	(max)	(dBi)
1228	12.1	-1.9
1246/1248	4.5	-0.9
1561	5.0	0.9
1575	5.0	3.1
1601/1602	2.1	4.0
Polarization		RHCP
Wavelength		1/4
Electrical Type		Radiating Patch
Radiation Pattern		Directional
Impedance (Ohms)		50

Mounting Type	Through Hole
Termination	Solder Pin
Dimensions	25.1 mm x 25.1 mm x 8.0 mm
Op. Temp	-40 °C to +105 °C
Ground Plane	70 mm x 70 mm

ANT-GNCP-TH258L15

L1/L5/E1/B1 Multiband
Ceramic Patch
Applications
Location, Timing, GPS,
Galileo, GLONASS,
Beidou,
QZSS

Frequency	VSWR	Peak Gain
(MHz)	(max)	(dBi)
1553.10 - 1608.68	5.9	5.6
1170 - 1183	6.4	1.0
Polarization		RHCP
Wavelength		1/4
Electrical Type		Radiating Patch
Radiation Pattern		Directional
Impedance (Ohms)		50

Mounting Type	Through Hole
Termination	Solder Pin
Dimensions	25.1 mm x 25.1 mm x 8.0 mm
Op. Temp	-40 °C to +105 °C
Ground Plane	70 mm x 70 mm



ANT-GNSSCP-TH18L1

L1/E1/B1 Multiband
Ceramic Patch
Applications
Location, Timing, GPS,
Galileo, GLONASS,
Beidou,
QZSS

Frequency	VSWR	Peak Gain
(MHz)	(max)	(dBi)
1567.24 - 1583.6	2.8	5.1
1587.69 - 1591.79	3.2	2.8
1593.31 - 1608.68	2.9	4.0
Polarization	RHCP	
Wavelength	1/4	
Electrical Type	Radiating Patch	
Radiation Pattern	Directional	
Impedance (Ohms)	50	

Mounting Type	Through Hole
Termination	Solder Pin
Dimensions	18.0 mm x 18.0 mm x 4.0 mm
Op. Temp	-40 °C to +105 °C
Ground Plane	70 mm x 70 mm



ANT-GNSSCP-TH25L1

L1/E1/B1 Multiband
Ceramic Patch
Applications
Location, Timing, GPS,
Galileo, GLONASS,
Beidou,
QZSS

Frequency	VSWR	Peak Gain
(MHz)	(max)	(dBi)
1567.24 - 1583.6	5.6	3.5
1587.69 - 1591.79	2.1	4.0
1593.31 - 1608.68	1.7	4.0
Polarization	RHCP	
Wavelength	1/4	
Electrical Type	Radiating Patch	
Radiation Pattern	Directional	
Impedance (Ohms)	50	

Mounting Type	Through Hole
Termination	Solder Pin
Dimensions	25.1 mm x 25.1 mm x 8.0 mm
Op. Temp	-40 °C to +105 °C
Ground Plane	70 mm x 70 mm

GNSS ANTENNAS

Remote

Magnetic Mount					
GNRM Series	Overview	Electrical Data			Mechanical Data
 ANT-GNRM-L1A-*	1553 MHz Radiating Patch Puck with LNA Applications GPS, Galileo, GLONASS, COMPASS, Beidou	Frequency	VSWR	Peak Gain	Mounting Type Magnetic Termination SMA Plug Dimensions 45.0 mm x 35.0 mm x 15.0 mm Op. Temp -40 °C to +85 °C Cable Length* 1 m, 3 m, 5 m Cable Type RG-174
		(MHz)	(max)	(dBi)	
 ANT-GNRM-L12A-*	1553 MHz Radiating Patch Puck with LNA Applications GPS, Galileo, GLONASS, COMPASS, Beidou	1561	1.3	32.8	Mounting Type Magnetic Termination SMA Plug Dimensions 45.0 mm x 35.0 mm x 15.0 mm Op. Temp -40 °C to +85 °C Cable Length* 1 m, 3 m, 5 m Cable Type RG-174
		1575	1.5	33.5	
		1601/1602	1.2	33.4	
		Polarization		RHCP	
		Wavelength		1/2	
		Electrical Type		Radiating Patch	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
		Frequency	VSWR	Peak Gain	
		(MHz)	(max)	(dBi)	
		1202/1207	1.7	25.0	
		1228	1.6	27.4	
		1246/1248	1.1	23.4	
		1561	1.5	28.4	
		1575	1.5	32.4	
		1601/1602	1.2	32.2	
		Polarization		RHCP	
		Wavelength		1/2	
		Electrical Type		Radiating Patch	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

GNSS ANTENNAS

Remote

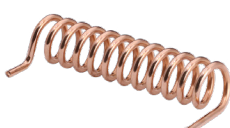
Magnetic Mount					
GNRM Series	Overview	Electrical Data			Mechanical Data
 ANT-GNRM-L15A-*	1553 MHz Radiating Patch Puck with LNA Applications GPS, Galileo, GLONASS, COMPASS, Beidou	Frequency	VSWR	Peak Gain	Mounting Type Magnetic Termination SMA Plug Dimensions 40.5 mm x 38.0mm x 16.3 mm Op. Temp -40 °C to +85 °C Cable Length* 1 m, 3 m, 5 m Cable Type RG-174
		(MHz)	(max)	(dBi)	
		1176	1.3	28.9	
		1561	1.3	27.2	
		1575	1.3	30.5	
		1601/1602	1.2	30.5	
		Polarization	RHCP		
		Wavelength	1/2		
 ANT-GNRM-L125A-*	1553 MHz Radiating Patch Puck with LNA Applications GPS, Galileo, GLONASS, COMPASS, Beidou	Frequency	VSWR	Peak Gain	Mounting Type Magnetic Termination SMA Plug Dimensions 45.0 mm x 35.0 mm x 15.0 mm Op. Temp -40 °C to +85 °C Cable Length* 1 m, 3 m, 5 m Cable Type RG-174
		(MHz)	(max)	(dBi)	
		1176	1.4	29.8	
		1202/1207	1.6	31.5	
		1228	1.6	31.0	
		1246/1248	1.5	23.3	
		1561	1.2	30.7	
		1575	1.2	31.7	
1601/1602	1.3	30.6			
Polarization	RHCP				
Wavelength	1/2				
Electrical Type	Radiating Patch				
Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50				
SH2 Series					
 ANT-GPS-SH2-*	1553 MHz Radiating Patch Puck Applications GPS, Galileo, GLONASS, COMPASS, Beidou	Frequency	VSWR	Peak Gain	Mounting Type Magnetic Termination SMA Plug MCX Plug MMCX Plug Dimensions 45.0 mm x 36.5 mm x 12.5 mm Op. Temp -40 °C to +85 °C Cable Length* 3.0 m Cable Type RG-174
		(MHz)	(max)	(dBi)	
		1553 - 1609	1.5	5.0	
		Polarization	RHCP		
		Wavelength	1/2		
		Electrical Type	Radiating Patch		
		Radiation Pattern	Omnidirectional		
		Impedance (Ohms)	50		

OTHER ANTENNAS

Linx provides a number of antennas for other uses including medical applications, unlicensed applications and remote control applications including:

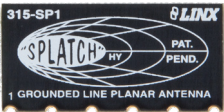
- 315 MHz
- 403 MHz
- 410 MHz
- 418 MHz
- 458 MHz
- 1.4 GHz

Internal/Embedded

Surface Mount					
HE Series	Overview	Electrical Data			Mechanical Data
 ANT-315-HESM	315 MHz Straight Monopole Helical Applications Remote Control	Frequency (MHz) 315	VSWR (max) 2.0		Mounting Type Surface Mount Termination Solder Pad Dimensions 38.1 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 76.2 mm x 241.3 mm
		Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	Linear 1/4 Monopole Omnidirectional 50		
 ANT-418-HESM	418 MHz Straight Monopole Helical Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency (MHz) 418	VSWR (max) 2.0	Peak Gain (dBi) 1.7	Mounting Type Surface Mount Termination Solder Pad Dimensions 38.1 mm x 8.9 mm Op. Temp -40 °C to +85 °C Ground Plane 76.2 mm x 190.5 mm
		Polarization Wavelength Electrical Type Radiation Pattern Impedance (Ohms)	Linear 1/4 Monopole Omnidirectional 50		

OTHER ANTENNAS

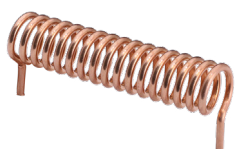
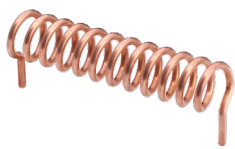
Internal/Embedded

Surface Mount				
Splatch® Series	Overview	Electrical Data		Mechanical Data
 315-SP1 ANT-315-SP	315 MHz Monopole Chip Applications Remote Control	Frequency (MHz) 315 VSWR (max) 1.9 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Mounting Type Surface Mount Termination Solder Pad Dimensions 27.9 mm x 13.7 mm x 1.5 mm Op. Temp -40 °C to +130 °C Ground Plane 38 mm x 84 mm	
 403-SP1 ANT-403-SP	403 MHz Monopole Chip	Frequency (MHz) 403 VSWR (max) 1.9 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Mounting Type Surface Mount Termination Solder Pad Dimensions 27.9 mm x 13.7 mm x 1.5 mm Op. Temp -40 °C to +130 °C Ground Plane 38 mm x 84 mm	
 418-SP1 ANT-418-SP	418 MHz Monopole Chip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency (MHz) 418 VSWR (max) 1.9 Peak Gain (dBi) -8.0 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Mounting Type Surface Mount Termination Solder Pad Dimensions 27.9 mm x 13.7 mm x 1.5 mm Op. Temp -40 °C to +130 °C Ground Plane 38 mm x 84 mm	
 458-SP1 ANT-458-SP	458 MHz Monopole Chip Applications PMR, Personal Mobile Radio	Frequency (MHz) 458 VSWR (max) 1.9 Peak Gain (dBi) -5.4 Polarization Linear Wavelength 1/4 Electrical Type Monopole Radiation Pattern Omnidirectional Impedance (Ohms) 50	Mounting Type Surface Mount Termination Solder Pad Dimensions 27.9 mm x 13.7 mm x 1.5 mm Op. Temp -40 °C to +130 °C Ground Plane 38 mm x 84 mm	

OTHER ANTENNAS

Internal/Embedded

Surface Mount							
microSplatch™ Series		Overview	Electrical Data			Mechanical Data	
 ANT-403-USP	403 MHz Monopole Chip	Frequency	VSWR	Peak Gain	Mounting Type	Surface Mount	
		(MHz)	(max)	(dBi)			
		403	2.0	-8.7			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						
 ANT-418-USP	418 MHz Monopole Chip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type	Surface Mount	
		(MHz)	(max)	(dBi)			
		418	2.0	-8.9			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						
 ANT-418-USP	418 MHz Monopole Chip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type	Surface Mount	
		(MHz)	(max)	(dBi)			
		418	2.0	-8.9			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						
 ANT-418-USP	418 MHz Monopole Chip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type	Surface Mount	
		(MHz)	(max)	(dBi)			
		418	2.0	-8.9			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						

Through Hole Mount							
HE Series							
 ANT-315-HETH	315 MHz Straight Monopole Helical Applications Remote Control	Frequency	VSWR		Mounting Type	Through Hole	
		(MHz)	(max)				
		315	2.0				
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						
 ANT-418-HETH	418 MHz Straight Monopole Helical Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type	Through Hole	
		(MHz)	(max)	(dBi)			
		418	2.0	1.7			
		Polarization	Linear				
		Wavelength	1/4				
		Electrical Type	Monopole				
		Radiation Pattern	Omnidirectional				
Impedance (Ohms)	50						

OTHER ANTENNAS

External

Connector Mount					
CW Series	Overview	Electrical Data			Mechanical Data
 ANT-418-CW-QW-*	418 MHz Straight Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 177.2 mm x 14.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		418	2.0	2.9	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
HD Series					
 ANT-315-CW-HD	315 MHz Straight Monopole Whip Applications Remote Control	Frequency	VSWR		Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 117.0 mm x 13.5 mm Op. Temp -30 °C to +70 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)		
		315	2.0		
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-418-CW-HD	418 MHz Straight Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 90.0 mm x 13.5 mm Op. Temp -30 °C to +70 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		418	2.0	-1.8	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

OTHER ANTENNAS

External

Connector Mount					
HW Series	Overview	Electrical Data			Mechanical Data
 ANT-315-CW-HW-*	315 MHz Straight Monopole Whip Applications Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 120.0 mm x 10.7 mm Op. Temp -20 °C to +80 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		315	2.0	0.0	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-418-CW-HW-*	418 MHz Straight Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 120.0 mm x 10.7 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		418	2.0	0.0	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-1.4-CW-HW-*	1400 MHz Straight Dipole Whip	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 120.0 mm x 10.7 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		1400	2.0	0.7	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

OTHER ANTENNAS

External

Connector Mount						
HWR Series	Overview	Electrical Data			Mechanical Data	
 ANT-315-CW-HWR-*	315 MHz Tilt/Swivel Monopole Whip Applications Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 142.0 mm x 10.0 mm Op. Temp -30 °C to +80 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		315	2.0	0.0		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
 ANT-418-CW-HWR-*	418 MHz Tilt/Swivel Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 142.0 mm x 10.0 mm Op. Temp -30 °C to +80 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		418	2.0	0.7		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
 ANT-1.4-CW-HWR-*	1400 MHz Tilt/Swivel Dipole Whip	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 142.0 mm x 10.0 mm Op. Temp -30 °C to +80 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		1400	2.0	2.4		
		Polarization	Linear			
		Wavelength	1/2			
		Electrical Type	Dipole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			
RAH Series						
 ANT-418-CW-RAH	418 MHz Right Angle Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 47.0 mm x 16.1 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)	(dBi)		
		418	1.9	-6.1		
		Polarization	Linear			
		Wavelength	1/4			
		Electrical Type	Monopole			
		Radiation Pattern	Omnidirectional			
		Impedance (Ohms)	50			

OTHER ANTENNAS

External

Connector Mount					
RCS Series	Overview	Electrical Data			Mechanical Data
 ANT-315-CW-RCS	315 MHz Right Angle Monopole Whip Applications Remote Control	Frequency	VSWR	Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 53.5 mm x 16.6 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)		
		315	2.0		
		Polarization	Linear		
		Wavelength	1/4		
		Electrical Type	Monopole		
		Radiation Pattern	Omnidirectional		
		Impedance (Ohms)	50		
 ANT-418-CW-RCS	418 MHz Right Angle Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Mounting Type Connector Mount Termination RP-SMA Plug Dimensions 53.5 mm x 16.6 mm Op. Temp -20 °C to +85 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)		
		418	2.0		
		Polarization	Linear		
		Wavelength	1/4		
		Electrical Type	Monopole		
		Radiation Pattern	Omnidirectional		
		Impedance (Ohms)	50		
RH Series					
 ANT-315-CW-RH-*	315 MHz Straight Monopole Whip Applications Remote Control	Frequency	VSWR	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 51.0 mm x 8.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm	
		(MHz)	(max)		
		315	1.9		
		Polarization	Linear		
		Wavelength	1/4		
		Electrical Type	Monopole		
		Radiation Pattern	Omnidirectional		
		Impedance (Ohms)	50		
 ANT-418-CW-RH-*	418 MHz Straight Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type Connector Mount Termination RP-SMA Plug SMA Plug Dimensions 51.0 mm x 8.5 mm Op. Temp -40 °C to +90 °C Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		418	1.9	-6.7	
		Polarization	Linear		
		Wavelength	1/4		
		Electrical Type	Monopole		
		Radiation Pattern	Omnidirectional		
		Impedance (Ohms)	50		

OTHER ANTENNAS

External

Connector Mount					
PW Series	Overview	Electrical Data			Mechanical Data
 ANT-418-PW-QW-*	418 MHz Right Angle Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination U.FL-Type Plug Unterminated Cable Dimensions 178.0 mm x 14.5 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* 1.32 mm RG-174 Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		418	2.0	2.9	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
WRT Series					
 ANT-410-WRT-*	315 MHz Straight Monopole Whip Applications Remote Control	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination U.FL-Type Plug RP-SMA Plug SMA Plug Dimensions 27.0 mm x Ø19.0 mm Op. Temp -40 °C to +90 °C Cable Length 150 mm, 216.0 mm, 250 mm Cable Type* 1.32 mm, RG-174 Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		410	2.5	-0.5	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-418-WRT-*	418 MHz Straight Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type Panel Mount Termination RP-SMA Plug SMA Plug Dimensions 26.8 mm x 19.0 mm Op. Temp -40 °C to +90 °C Cable Length 216.0 mm Cable Type* RG-174 Ground Plane 102 mm x 102 mm
		(MHz)	(max)	(dBi)	
		418	1.9	-1.3	
		Polarization		Linear	
		Wavelength		1/2	
		Electrical Type		Dipole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

OTHER ANTENNAS

External

PCB Screw Mount					
LP Series	Overview	Electrical Data			Mechanical Data
 ANT-315-PW-LP	315 MHz Straight Monopole Whip Applications Remote Control	Frequency	VSWR	Peak Gain	Mounting Type PCB Screw Termination Screw Plug Dimensions 50.5 mm x 10.4 mm Op. Temp -20 °C to +85 °C Ground Plane 38.1 mm x 83.8 mm
		(MHz)	(max)	(dBi)	
		315	1.9	-4.0	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-418-PW-LP	418 MHz Straight Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type PCB Screw Termination Screw Plug Dimensions 50.5 mm x 10.4 mm Op. Temp -20 °C to +85 °C Ground Plane 38.1 mm x 83.8 mm
		(MHz)	(max)	(dBi)	
		418	1.9	-1.0	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
RA Series					
 ANT-315-PW-RA	315 MHz Tilt/Swivel Monopole Whip Applications Remote Control	Frequency	VSWR		Mounting Type PCB Screw Termination Screw Plug Dimensions 131.5 mm x 7.0 mm Op. Temp -20 °C to +60 °C Ground Plane 62.2 mm x 100.3 mm
		(MHz)	(max)		
		315	2.0		
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	
 ANT-418-PW-RA	418 MHz Tilt/Swivel Monopole Whip Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency	VSWR	Peak Gain	Mounting Type PCB Screw Termination Screw Plug Dimensions 131.5 mm x 7.0 mm Op. Temp -20 °C to +60 °C Ground Plane 63.5 mm x 101.6 mm
		(MHz)	(max)	(dBi)	
		418	2.0	2.0	
		Polarization		Linear	
		Wavelength		1/4	
		Electrical Type		Monopole	
		Radiation Pattern		Omnidirectional	
		Impedance (Ohms)		50	

OTHER ANTENNAS

Remote

Adhesive Mount					
MHW Series	Overview	Electrical Data			Mechanical Data
 ANT-418-MHW-RPS-*	418 MHz Dipole Adhesive Applications Medical, PMR, Personal Mobile Radio, LTE Band 87, LTE Band 88	Frequency (MHz)	VSWR (max)	Peak Gain (dBi)	Mounting Type Adhesive
		418	1.9	2.1	Termination RP-SMA Plug SMA Plug
		Polarization		Linear	Dimensions 150.0 mm x 15.5 mm x 9.7 mm
		Wavelength		1/2	Op. Temp -20 °C to + 70 °C
		Electrical Type		Dipole	Cable Length* 4.6 m 2.0 m
		Radiation Pattern		Omnidirectional	Cable Type RG-174
		Impedance (Ohms)		50	

ANTENNA MOUNTS

Magnetic remote antenna mounts for Linx ELE Series screw base antennas.

Remote

Magnetic Mount		
MAG Series	Overview	Mechanical Data
 ANT-MAG-B50-*	Straight - Magnetic Base Applications Use with ELE Series Screw Base Antennas	Mounting Type Magnetic Termination RP-SMA Plug SMA Plug TNC Plug Dimensions 50.0 mm x 50.0 mm x 37.4 mm Op. Temp -40 °C to +80 °C Cable Length* 4.0 m Cable Type RG-174 RG-58
 ANT-MAG-B66-*	Straight - Magnetic Base Applications Use with ELE Series Screw Base Antennas	Mounting Type Magnetic Termination RP-SMA Plug SMA Plug TNC Plug Dimensions 66.0 mm x 66.0 mm x 37.4 mm Op. Temp -40 °C to +80 °C Cable Length* 4.0 m Cable Type RG-174 RG-58
 ANT-MAG-B85-*	Straight - Magnetic Base Applications Use with ELE Series Screw Base Antennas	Mounting Type Magnetic Termination RP-SMA Plug SMA Plug TNC Plug Dimensions 85.0 mm x 85.0 mm x 37.4 mm Op. Temp -40 °C to +80 °C Cable Length* 4.0 m Cable Type RG-174 RG-58

Notes

CELLULAR LTE/5G NR FREQUENCY BAND GUIDE

Operating Band #	Uplink Operating Band (MHz)	Downlink Operating Band (MHz)	Overall Operating Band (MHz)	Total Bandwidth (MHz)	LTE-M	LTE NB-IoT	5G NB-IoT
1	1920 – 1980	2110 – 2170	1920 – 2170	250	x	x	x
2	1850 – 1910	1930 – 1990	1850 – 1990	140	x	x	x
3	1710 – 1785	1805 – 1880	1710 – 1880	170	x	x	x
4	1710 – 1755	2110 – 2155	1710 – 2155	445	x	x	x
5	824 – 849	869 – 894	824 – 894	70	x	x	x
7	2500 – 2570	2620 – 2690	2500 – 2690	190	x	x	x
8	880 – 915	925 – 960	880 – 960	80	x	x	x
9	1749.9 – 1784.9	1844.9 – 1879.9	1749.9 – 1879.9	130			
10	1710 – 1770	2110 – 2170	1710 – 2170	460			
11	1427.9 – 1447.9	1475.9 – 1495.9	1427.9 – 1495.9	68	x	x	
12	699 – 716	729 – 746	699 – 746	47	x	x	x
13	777 – 787	746 – 756	746 – 787	41	x	x	
14	788 – 798	758 – 768	758 – 798	40	x	x	x
17	704 – 716	734 – 746	704 – 746	42		x	
18	815 – 830	860 – 875	815 – 875	60	x	x	x
19	830 – 845	875 – 890	830 – 890	60	x	x	
20	832 – 862	791 – 821	791 – 862	71	x	x	x
21	1447.9 – 1462.9	1495.9 – 1510.9	1447.9 – 1510.9	63	x	x	
22	3410 – 3490	3510 – 3590	3410 – 3590	180			
24	1626.5 – 1660.5	1525 – 1559	1525 – 1660.5	135.5			
25	1850 – 1915	1930 – 1995	1850 – 1995	145	x	x	x
26	814 – 849	859 – 894	814 – 894	80	x	x	
27	807 – 824	852 – 869	807 – 869	62	x		

CELLULAR LTE/5G NR FREQUENCY BAND GUIDE

Operating Band #	Uplink Operating Band (MHz)	Downlink Operating Band (MHz)	Overall Operating Band (MHz)	Total Bandwidth (MHz)	LTE-M	LTE NB-IoT	5G NB-IoT
28	703 – 748	758 – 803	703 – 803	100	x	x	x
29	N/A	717 – 728	717 – 728	11			
30	2305 – 2315	2350 – 2360	2305 – 2360	55			
31	452.5 – 457.5	462.5 – 467.5	452.5 – 467.5	15	x	x	
32	N/A	1452 – 1496	1452 – 1496	44			
33	1900 – 1920	1900 – 1920	1900 – 1920	20			
34	2010 – 2025	2010 – 2025	2010 – 2025	15			
35	1850 – 1910	1850 – 1910	1850 – 1910	60			
36	1930 – 1990	1930 – 1990	1930 – 1990	60			
37	1910 – 1930	1910 – 1930	1910 – 1930	20			
38	2570 – 2620	2570 – 2620	2570 – 2620	50			
39	1880 – 1920	1880 – 1920	1880 – 1920	40			
40	2300 – 2400	2300 – 2400	2300 – 2400	100			
41	2496 2690	2496 2690	2496 2690	194		x	x
42	3400 – 3600	3400 – 3600	3400 – 3600	200		x	
43	3600 – 3800	3600 – 3800	3600 – 3800	200		x	
44	703 – 803	703 – 803	703 – 803	100			
45	1447 – 1467	1447 – 1467	1447 – 1467	20			
46	5150 – 5925	5150 – 5925	5150 – 5925	775			
47	5855 – 5925	5855 – 5925	5855 – 5925	70			
48	3550 – 3700	3550 – 3700	3550 – 3700	150			
49	3550 – 3700	3550 – 3700	3550 – 3700	150			
50	1432 – 1517	1432 – 1517	1432 – 1517	85			

CELLULAR LTE/5G NR FREQUENCY BAND GUIDE

Operating Band #	Uplink Operating Band (MHz)	Downlink Operating Band (MHz)	Overall Operating Band (MHz)	Total Bandwidth (MHz)	LTE-M	LTE NB-IoT	5G NB-IoT
51	1427 - 1432	1427 - 1432	1427 - 1432	5			
52	3300 - 3400	3300 - 3400	3300 - 3400	100			
53	2483.5 - 2495	2483.5 - 2495	2483.5 - 2495	11.5			
65	1920 - 2010	2110 - 2200	1920 - 2200	280		x	x
66	1710 - 1780	2110 - 2200	1710 - 2200	490	x	x	x
67	N/A	738 - 758	738 - 758	20			
68	698 - 728	753 - 783	698 - 783	85			
69	N/A	2570 - 2620	2570 - 2620	50			
70	1695 - 1710	1995 - 20	1695 - 2020	325		x	x
71	663 - 698	617 - 652	617 - 698	81	x	x	x
72	451 - 456	461 - 466	451 - 466	15	x	x	
73	450 - 455	460 - 465	450 - 465	15	x	x	
74	1427 - 1470	1475 - 1518	1427 - 1518	91	x	x	x
75	N/A	1432 - 1517	1432 - 1517	85			
76	N/A	1427 - 1432	1427 - 1432	5			
n77	3300 - 4200	3300 - 4200	3300 - 4200	900			
n78	3300 - 3800	3300 - 3800	3300 - 3800	500			
n79	4400 - 5000	4400 - 5000	4400 - 5000	600			
n80	1710 - 1785	N/A	1710 - 1785	75			
n81	880 - 915	N/A	880 - 915	35			
n82	832 - 862	N/A	832 - 862	30			
n83	703 - 748	N/A	703 - 748	45			
n84	1920 - 1980	N/A	1920 - 1980	60			

CELLULAR LTE/5G NR FREQUENCY BAND GUIDE

Operating Band #	Uplink Operating Band (MHz)	Downlink Operating Band (MHz)	Overall Operating Band (MHz)	Total Bandwidth (MHz)	LTE-M	LTE NB-IoT	5G NB-IoT
85	698 – 716	728 – 746	698 – 746	48	x	x	
n86	1710 – 1780	N/A	1710 – 1780	70			
87	410 – 415	420 – 425	410 – 425	15	x	x	
88	412 – 417	422 – 427	412 – 427	15	x	x	
n89	824 – 849	N/A	824 – 849	25			
n90	2496 – 2690	2496 – 2690	2496 – 2690	194			x
n91	832 – 862	1427 – 1432	832 – 1432	600			
n92	832 – 862	1432 – 1517	832 – 1517	685			
n93	880 – 915	1427 – 1432	880 – 1432	552			
n94	880 – 915	1432 – 1517	880 – 1517	637			
n95	2010 – 2025	N/A	2010 – 2025	15			

LTE-only Bands
5G NR-only Bands
Both LTE and 5G NR Bands

LTE: 3GPP TS 36.101 V16.5.0 (2020-03), 5G NR: TS 38.104 V16.3.0 (2020-03)

GNSS FREQUENCY BAND GUIDE

System/Band	Center Frequency (MHz)	Bandwidth (MHz)	Low Frequency (MHz)	High Frequency (MHz)	Band Group
Beidou B1I	1561	4.092	1559	1563	L1
Beidou B1C	1575	32.736	1559	1592	L1
GALILEO-E1	1575.42	24.552	1563.14	1587.70	L1
GPS L1C/A	1575.42	24	1563.42	1587.42	L1
GPS L1C	1575.42	30.96	1559.94	1590.90	L1
QZSS L1	1575.42	24	1563.42	1587.42	L1
GLONASS (CDMA) L1	1601	not provided			L1
GLONASS (FDMA) L1	1602	8.00	1598	1606	L1
GLONASS (CDMA) L3	1202	not provided			L1
Beidou B2B	1207	20.46	1197	1218	L2
GALILEO-E5b	1207.14	20.46	1196.91	1217.37	L2
GPS L2	1228	24	1215	1240	L2
QZSS L2C	1227.6	24	1215.60	1239.60	L2
GLONASS (FDMA) L2	1246	5.00	1243	1248	L2
GLONASS (CDMA) L2	1248	not provided		1250	L2
Beidou B2A	1176	20.46	1166.22	1186.68	L2
GALILEO-E5a	1176.45	20.46	1166.22	1186.68	L5
GPS L5	1176.45	24	1164.45	1188.45	L5
NavIC L5	1176.45	24	1164.45	1188.45	L5
QZSS L5	1176.45	24.9	1164	1189	L5
Beidou B3I	1269	20.46	1258.29	1278.75	L5
GALILEO-E6	1279	40.92	1258.29	1299.21	L6
QZSS E6/LEX	1278.75	42	1257	1300	L6
NavIC S	2492.028	16.5	2483	2501	S

Notes

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