



SEQUANS AND TE CONNECTIVITY ANTENNA CROSS REFERENCE GUIDE

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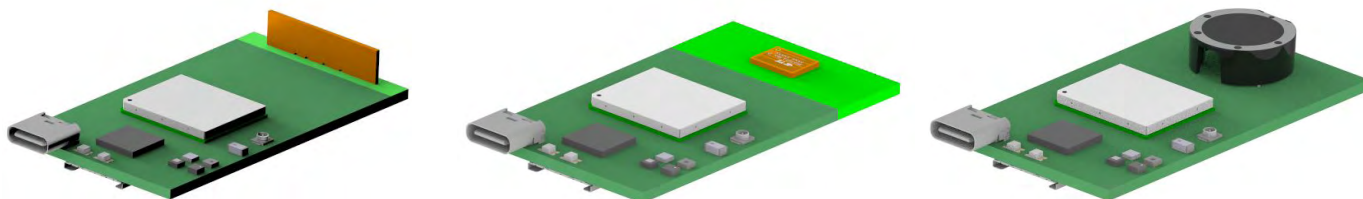
Welcome to the Sequans and TE Connectivity (TE) cross reference guide for Sequans modules and TE Connectivity antennas.

Here you will find some of the most popular antenna models cross-referenced with the appropriate Sequans module. The content is organized by frequency/technology type and shows some of the most appropriate antennas for use with the displayed modules.

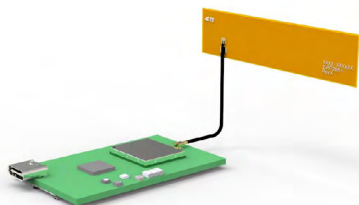
ANTENNA MOUNTING EXAMPLES

The type of antenna chosen will have an effect on the placement of the antenna within your device. Below are a few examples of the mounting or antenna placement mentioned in the 'Antenna Types' columns in the following tables.

INTERNAL SURFACE MOUNT






INTERNAL FPC MOUNT








EXTERNAL MOUNT










CELLULAR - CAT-M/CAT-1/NB-IOT

				Monarch® 2 GM02S Module	Monarch® 2 GM02SP Module
					
Product Image	Part Number	Connection Type	Antenna Type	VSWR	Peak Gain (dBi)
	2108783 Series 617 - 3800 MHz	Solder	Internal Surface Mount	<2.7:1	4.9
	2108823-1 617 - 7125 MHz	Solder	Internal Stamped	<2.8:1	4.8
	ANT-LTE-RPC Series 617 - 2585 MHz	U.FL None	Internal FPC	<4.1:1	6.3
	ANT-5GW-FPC-LH Series 617 - 5000 MHz	MHF4-type U.FL	Internal FPC	<4.7:1	7.0
	2108948 Series 617 - 7125 MHz	MHF4-type U.FL	Internal FPC	<1.9:1	5.6
	ANT-LTE-MON-SMA-E 617 - 2485 MHz	SMA	External Monopole	< 6.8:1	4.5
	ANT-5GWWS1-SMA 617 - 4990 MHz	SMA	External Dipole	<3.1:1	4.1
	2195889-1 617 - 5925 MHz	SMA	External Dipole	<2.1:1	4.5

CELLULAR - CAT-M/CAT-1/NB-IOT

				Monarch® 2 SKY66431 Module	Calliope® 2 GC02S1 Module
					
Product Image	Part Number	Connection Type	Antenna Type	VSWR	Peak Gain (dBi)
	2108994-1 698 - 2700 MHz	Solder	Internal Surface Mount	<3.0:1	2.3
	2108823-1 617 - 7125 MHz	Solder	Internal Stamped	<2.8:1	4.8
	ANT-LTE-RPC Series 617 - 2585 MHz	U.FL None	Internal FPC	<4.1:1	6.3
	2367286 Series 698 - 2700 MHz	MHF-type MHF4L-type	Internal FPC	<3.6:1	3.0
	2372105-1 698 - 2700 MHz	MHF-type	Internal FPC	<2.1:1	2.5
	2108940-1 698 - 2700 MHz	SMA RP-SMA	External Dipole	<2.5:1	4.2
	DBA6171C Series 617 - 7125 MHz	SMA	External Dipole	<5.0:1	4.4
	2195890-1 698 - 2700 MHz	SMA	External Dipole	<2.2:1	3.9

GNSS

					Monarch® 2 GM02SP Module
Product Image	Part Number	Connection Type	Antenna Type	VSWR	Peak Gain
	ANT-GNCP-C25L125100 L1 & L2 & L5	MHF-type	Internal - Active Ceramic Patch	<2.2:1	31.6 dBic
	2118900-1 L1	Solder	Internal Surface Mount	<2.0:1	3.5 dBi
	2108853-1 L1+G1 & L2+E5b+G2	MHF	Internal - Active Ceramic Patch	<1.3:1	33.5 dBic
	2108855-1 L1+G1 & L2+L5+E5b+G2	SMA	External - Active Magnetic Mount	<1.4:1	31.3 dBic
	2108852-1 L1+G1	Solder	Internal - Active Ceramic Patch	<3.3:1	25.9 dBic
	ANT-GNRM-L1A Series L1+E1+B1C+ B1L	SMA	External - Active Magnetic Mount	<1.5:1	33.5 dBic
	GNS1559MPF-100SMAM B1+L1+G1	SMA	External - Active Permanent Mount	<2.4:1	31.9 dBic

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02/25 **Original**

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