TE Connectivity (TE) is your drones solution provider for electromechanical and electronic components. This solutions guide will help you select the required components with easy access to additional online information at te.com. TE’s quick-to-install and industry-proven innovative product solutions will help you develop cutting-edge drone technology.
DRONE DESIGN FEATURES

- MOTOR
- COMMUNICATIONS
- COMPUTING
- LIGHTING
- INTERCONNECT
- SENSING
- POWER
- CAMERA
## PRODUCT CATEGORY

### CAMERA | VIDEO
- **High Sensitivity Piezo Film Sensor Contact Microphone**
  - Consumer: N/A
  - Commercial: N/A
  - Military: N/A
- **SD Card Slot (Push Pull)**
  - Consumer: 0.5
  - Commercial: 500AC
  - Military: -20 to 105

### COMMUNICATIONS
- **Board Level Shielding**
  - Consumer: N/A
  - Commercial: 1.0
  - Military: 70
- **MicroMiniature RF Antenna**
  - Consumer: 5
  - Commercial: 10
  - Military: 5
- **UltraMiniature Coax Connector & Cable Assembly Series**
  - Consumer: 50
  - Commercial: 60
  - Military: -40 to 90
- **MMCX MicroMiniature Snap-On Connector Series**
  - Consumer: 1.0
  - Commercial: 100
  - Military: -15 to 105
- **Standard Antenna**
  - Consumer: N/A
  - Commercial: N/A
  - Military: -40 to 95
- **Switching Coax Connector**
  - Consumer: N/A
  - Commercial: N/A
  - Military: -40 to 95
- **Multi-position Backplane RF Module**
  - Consumer: varies
  - Commercial: 200
  - Military: -55 to 105
- **Raychem Cheminax Cable**
  - Consumer: 1.0
  - Commercial: 300
  - Military: -65 to 105
- **USB Type-C Connector**
  - Consumer: 0.5A per pin
  - Commercial: 50V
  - Military: -40 to 95
- **M.2 Board-to-Board Connector**
  - Consumer: 0.5A (per pin)
  - Commercial: 50VAC (per pin)
  - Military: -40 to 80

### COMPUTING
- **AMP CI and Mini CI Connector**
  - Consumer: 1 to 4
  - Commercial: 125
  - Military: -40 to 105
- **Cable/FAS-I Nappe Connector**
  - Consumer: 1 amper
  - Commercial: 100
  - Military: -65 to 125
- **CableS-X Connector**
  - Consumer: 1.5A/contact
  - Commercial: 250
  - Military: -125
- **FAT Solderable Connector**
  - Consumer: 5
  - Commercial: 50VAC
  - Military: -65 to 105
- **Inverted Thru Board Interconnect**
  - Consumer: 7
  - Commercial: 600
  - Military: -40 to 105
- **C petitions Zd connector**
  - Consumer: 1.6A/contact
  - Commercial: 250
  - Military: -105
- **Flexible Cables (FCC)**
  - Consumer: 1
  - Commercial: 50
  - Military: -40 to 95
- **Hight Performance Interconnect Wire-to-Board**
  - Consumer: 0.5
  - Commercial: 10AC
  - Military: -40 to 95
- **DC Connector**
  - Consumer: 20
  - Commercial: 250
  - Military: -150
- **Mazak Mezzanine Connectors (VITA 6)**
  - Consumer: 1.5A
  - Commercial: 100
  - Military: -150
- **MicroMatch Connector**
  - Consumer: 1.5A
  - Commercial: 100
  - Military: -150
- **PIA, VITA 2-58 (VITA 46 VPX) Connector**
  - Consumer: 1.5A
  - Commercial: 100
  - Military: -150
- **AMPH -LATCH Ribbon Cable Connector**
  - Consumer: 1
  - Commercial: 250
  - Military: -65 to 105
- **SD Card Slot (Push Pull)**
  - Consumer: 0.5
  - Commercial: 500AC
  - Military: -25 to 105
- **SIM Card Slot (Push Pull)**
  - Consumer: 1
  - Commercial: 50
  - Military: -30 to 85
- **Spring Finger**
  - Consumer: 4
  - Commercial: 50V
  - Military: -40 to 85
- **DUG Socket**
  - Consumer: 0.75
  - Commercial: 250AC/DC
  - Military: -65 to 125
- **GA Socket**
  - Consumer: 0.5
  - Commercial: 12
  - Military: -25 to 120
- **PGA Socket**
  - Consumer: 3
  - Commercial: 1000
  - Military: -55 to 105
- **Micro MATE-N-LOCK Connector**
  - Consumer: 5
  - Commercial: 250
  - Military: -150

### MOTOR
- **High Performance Interconnect Wire-to-Board**
  - Consumer: 1.3
  - Commercial: 250V
  - Military: -25 to 105
- **Rectangular Input/Output Terminal System (RITSS) Connector**
  - Consumer: 5A
  - Commercial: 32V
  - Military: -75
- **MAG-MATE Terminals**
  - Consumer: N/A
  - Commercial: N/A
  - Military: -150
- **POWER TRIPLE LOCK Connector**
  - Consumer: 10
  - Commercial: 300
  - Military: -105
- **Power Double Lock Connector**
  - Consumer: 14
  - Commercial: 300
  - Military: -150

### POWER & SWITCHING
- **Mobile Battery**
  - Consumer: 5
  - Commercial: 250
  - Military: -30 to 70
- **PC Battery**
  - Consumer: 5
  - Commercial: 250
  - Military: -30 to 70
- **USB Type-C Connector**
  - Consumer: 5
  - Commercial: 32V
  - Military: -25 to 105
- **I²C AC and DC Mini AERO Relays**
  - Consumer: varies
  - Commercial: 250AC
  - Military: -71
- **Kovacs High Voltage Relay**
  - Consumer: 600
  - Commercial: 1000VDC
  - Military: -85 to 105
- **K Series Connector**
  - Consumer: 600
  - Commercial: 28VDC
  - Military: -85 to 105
- **Aluminum and Phenolic Knobs**
  - Consumer: N/A
  - Commercial: N/A
  - Military: N/A
- **USB Connector**
  - Consumer: 1
  - Commercial: 30
  - Military: -55 to 105
- **Small USB Connector**
  - Consumer: 1
  - Commercial: 30
  - Military: -55 to 105
- **Rectangular DC Jack Connector**
  - Consumer: 1.5
  - Commercial: 24VDC
  - Military: -55 to 105
- **Tactile Switches**
  - Consumer: 5mA
  - Commercial: 24VDC
  - Military: -105
- **Toggle Switches**
  - Consumer: 20
  - Commercial: 250AC/DC
  - Military: -30 to 85

### LIGHTING
- **DC SSL Connector**
  - Consumer: 8
  - Commercial: 400
  - Military: -40 to 105
- **High Performance Interconnect Wire-to-Board Connector**
  - Consumer: 5.5A
  - Commercial: 100
  - Military: -40 to 105
- **Miniature Hermetic Slide Blade & Receptacle Connectors**
  - Consumer: 1
  - Commercial: 300
  - Military: -40 to 105
- **Modular Releasable Poke-In Connector**
  - Consumer: 5.5A
  - Commercial: 400
  - Military: -40 to 125
### Product Category

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DRONE SUBSYSTEMS

POWER
- Battery
- Power Connector

COMMUNICATIONS
- Antennas
- Signal
- Remote Control
- Input/Output

INTERCONNECT
- Wire and Cable
- Identification
- Connectors

LIGHTING
- Power Connector

COMPUTING
- Board
- Sockets
- Memory

MOTOR
- Power Connector

SENSING
- Position
- Humidity
- Temperature
- Pressure

CAMERA
- Camera
- Memory
**FEATURED PRODUCTS**

**AMP CT and Mini CT Connectors**
- Offer design flexibility with IDC and crimp termination methods
- Provide PCB board relief-retention with kinked connector design

**CeeLok FAS-T Nano Connectors**
- Achieve up to 10 GbE rates for high-speed transmission of data
- Improve signal integrity through uniform cross talk cancellation with T-shaped pin pattern

**Fine Pitch Board-to-Board Connectors**
- Offer a smaller centerline and lower mounting height, plus industry-first EMI shielded board-to-FPC connectors
- Offer a super narrow body with a sufficient pick and place area

**Micro MATE-N-LOK Connectors**
- Maximize board space with low profile single and dual row, vertical and right angle configurations
- Polarized housings help prevent mismating, positive latching prevents unmating

**FFC / FPC Connectors**
- Save space and meet cabling needs with multiple centerline options
- Support smaller and lighter designs with mixed signal and low power routing

**Multigig RT 2-R (VITA 46 VPX)**
- Support high levels of shock and vibration with a quad-redundant contact system
- Offer a robust “pinless” interface and a modular, lightweight connector system

**Spring Fingers**
- Eliminate the cost of specialized equipment with a design using standard equipment for soldering and pick-and-place
- Gain design versatility with a small, scalable footprint

**Miniature Hermaphroditic Blade and Receptacle Connectors w/ Selective Gold Plating**
- Provides a robust printed circuit board-to-board power connection in high vibration environments
- Achieve design versatility with a small footprint interconnection

**Micro-MaTch Connectors**
- Prevent fretting corrosion and allow for longer-lasting connection with contact spring design
- Absorb vibration with high contact force system

**POWER TRIPLE LOCK Connectors**
- Reliability and ease of assembly also comes with keying and color combinations, no lance contact design features, low mating forces, and various temperature and flammability

**Power Double Lock Connectors**
- Enhance reliability with inner-locking system, and double-lock plate ensuring full contact insertion
- Available in multiple colors and polarizing ribs on housing for ease of installation

**USB Type-C Connectors**
- Save valuable board real-estate with one of the smallest available dual row SMT footprints
- Enable easy, reliable mating with reversible design

**High Performance Relays**
- Withstand extreme environments with high performance designs
- Offer consistently high contact pressure, reduced bounce and less arcing, resulting in extended contact life

**Rectangular DC Jack Connectors**
- Provide power to battery operated devices with up to 25V and 10.7A max ratings in a USB-sized connector
- Enable design flexibility with surface mount, cable and DIP mount options
Magnetic Encoder - I2C or Analog

- Ensure maximum freedom with a wide range of configuration parameters
- Offer magnetoresistive element along with analog-to-digital converter and signal processing in a small TSSOP package

PIDG Terminals and Disconnects (Military)

- Provide maximum contact and tensile strength after crimping with serrations in the crimp barrel
- Offer circumferential insulation support and strain relief for uniform reliability in difficult circuit environments with specially designed copper sleeve

Altimeter-MS8607-02BA01

1  2  3

- Provide all-in-one environmental physical measurements for pressure, humidity and temperature (PHT)
- Offer a solution ideal for when ultra-low power consumption, high PHT accuracy and compactness are critical

DEUTSCH 38999 Connectors

- Offer many choices in shell sizes, materials, inserts, filtering and EMI protection, and environmental sealing
- Provide high density layouts with up to 187 data connections and power contacts rated up to 23A

Altimeter-MS5637-02BA03

1  2  3

- Provide a precise digital 24-bit pressure and temperature value
- Offer different operation modes that allow the user to optimize for conversion speed and current consumption

ZHD Labels

- Offer a solution that is both low fire hazard and diesel resistant
- Help save time and cost by decreasing set-up and change-over frequency

Rotary Displacement Sensors

- Make absolute position measurements from 1/8th to 200 turns and provide industry standard 4-20mA and 0-10V analog outputs
- Offer ease of mounting, an optional mounting bracket and maintain position information even during power loss

Power Key Connectors

- Optimize contact seating and proper mating to the PCB header
- Protect levers and prevent wire tangling with built-in walls, and friendly to PCB potting process

Thin Film Temperature Sensors

- Offer a solution for fast and precise feedback control systems with a low time constant
- Guarantee high long term stability with use of platinum as a resistive material

Military Harnessing Tubing

- Survive exposure to temperatures in excess in 200°C
- Offer excellent insulation while resisting fluids, heat and chemicals

High Speed Copper Cable

- Offer excellent signal integrity with stable performance in extreme conditions
- Lower total installed costs with straightforward installation and compatibility with numerous TE products

AMPMODU Connectors

- Achieve high vibration performance and reliability with a wide variety of signal interconnects to meet your needs
- Ideal interconnect system with large product families and application possibilities

Heat Shrink Tubing

- Provide dependable insulation, mechanical protection and strain relief with aesthetic appeal
- Design for extreme high or low temperature environments
LET’S CONNECT
TE Connectivity (TE) brings you electromechanical and electronic components that drive design solutions. Whether you are designing a consumer, commercial, or military drone, this solution guide will help you select the required components with easy access to additional online information through te.com. With our wide variety of products and superior design capabilities, you will find the right match for your unique application.

Technical Support
te.com/support-center


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