



CONNECTIVITY SOLUTION GUIDE FOR SMART HEALTH

The engineering of smart health monitoring devices presents design challenges in miniaturization, component integration and durability. This is where we come in. As a global leader in antennas, connectors and sensors, TE Connectivity (TE) delivers notable wireless connectivity that enables your devices to operate in harsh, life-saving environments.

LEARN MORE AT
www.te.com/smarthealth



CONNECTIVITY DESIGN REQUIREMENTS FOR SMART HEALTH



Rugged Design

Products that can withstand the daily wear and tear of consumer and user life (water, shock, high heat, etc.)



Miniaturization

High-performance, well grounded miniaturized components that can save space for greater functionality within the device



Improved Data Connectivity

Quality omni-directional and high-performance wireless transmission in a wide variety of frequencies including Bluetooth, WLAN, cellular bands



Operational Efficiency

Products protect important functionalities for increased operating efficiency



Integrated Solution Offerings

Reduce complexity, helps improve cost-efficiency, optimize performance, and increase reliability



Minimized Fault Tolerance

Using simpler, faster, and more secure products to enable operating capability

LEARN MORE ABOUT CONNECTIVITY SOLUTIONS FOR SMART HEALTH

ANTENNAS



Standard and Custom Antennas

Our antenna solutions provide high-quality transmissions in wireless devices in a wide variety of frequencies, including Bluetooth, WLAN, cellular, and Zigbee, etc.

FLEX CONNECTORS



Flexible Printed Circuit Connectors

As the market trends towards miniaturization, FPC connectors have been developed to address the challenges of this expanding market, which often demands smaller centerline or pitch spacing, lower profile heights, and lighter interconnect solutions.



Board-to-FPC Connectors

As the market trends towards miniaturization, FPC connectors have been developed to address the challenges of this expanding market, which often demands smaller centerline or pitch spacing, lower profile heights, and lighter interconnect solutions.

WIRE-TO-BOARD



AMP CT Interconnect

TE's AMP CT connector system consists of an extensive product offering and broad industry usage.



AMP Mini CT Interconnect

TE's 1.5mm AMP Mini CT connectors are miniature wire-to-board interconnect solutions.



Wire-to-Board Housings

Specifically designed to mate with our headers and receptacles, we offer a variety of wire housings.

RF CONNECTORS



RF/Microwave Interconnect

An RF connector is an electrical connector that is engineered to work at radio frequencies ranging from a few MHz to over 100 GHz. RF connectors are designed to perform in rugged, challenging environments, while maintaining low insertion losses, superb voltage standing wave ratio, and other mechanical and electrical functions.



SMA/SSMA Connectors

RF coax connectors transmit analog signals while minimizing RF (radio frequency) signal losses. These devices are designed to work at the multi-megahertz range of radio frequency.



Micro Coax Connectors and Cables

With a rugged, compact design, our space-saving micro-miniature coax connectors are engineered for high-performance microwave systems.

BOARD-TO-BOARD



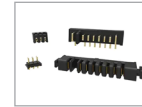
Spring Fingers

Spring fingers can be used for antenna feeds, low voltage electrical connections, or for grounding to prevent EMI noise and static caused by a speaker, motor, microphone, or any other vibration within an application.



Eurocard Connectors

Our Eurocard connector line is available in board-to-board, wire-to-board, ribbon cable-to-board and high-current connectors.



PC Power Connectors

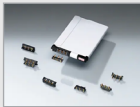
Our battery interconnects for PCs come with five-position headers and our five-position receptacle connectors easily mate and unmate.

BATTERY CONNECTORS



Mobile Battery Connectors

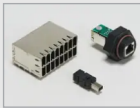
Our mobile battery interconnects include low profile battery connectors, leaf battery connectors, and floating battery interconnection systems.



Mating Part

We collaborate with customers to provide battery jack interconnection systems and holding solutions for today's slim, portable products.

MODULAR JACKS



Standard Modular Jack

With TE's modular jacks and plugs, you can improve EMI performance and expand system bandwidth capabilities with solutions manufactured to operate reliably in the harshest environments.

MEMORY CARD CONNECTORS



SIM Card Connectors

SIM card is widely used in a variety of mobile applications, including, billing, security and number storage purposes in mobile devices. Currently SIM card connectors are widely used in IoT related applications. We offer a variety of SIM card connectors to meet different.

TOOLING



Crimp Applicators

Designed to crimp an array of terminals from TE and other manufacturers, our OCEAN 2.0 applicators are engineered from high grade tool steels and processed through advanced CNC equipment for tight tolerances to deliver high repeatability and fast throughput.



Bench Top Terminators

Our extensive line of bench top wire crimping machines can provide flexibility, performance, and reliability to address low to medium volume wire processing.



Portable Crimp Tools

SDE Crimp minimizes the need for multiple types of hand tools thanks to its Standard Die Envelope (SDE) die sets, which are easily interchangeable from manual to power-assisted tools depending on your needs. An enhanced tool frame also delivers greater operator comfort, efficiency and crimping quality.

VITAL SIGNS SENSORS



Photo Optic Sensors

From patient monitoring in hospitals to wearables and home healthcare applications, TE offers photo optic sensors and components for non-invasively measuring blood oxygenation level.



Piezo Sensors

Our piezoelectric sensors provide durable vibration, accelerometer, or dynamic switch elements for a wide range of markets and applications.

USB CONNECTORS



USB Type-C Connectors

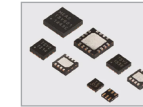
As the next generation solution for current and future USB applications, our USB Type-C connectors are designed to an industry standard that provides a sleek, slim design small enough for handheld devices and small home appliances and robust enough for industrial applications.

TEMPERATURE SENSORS



Thermopile Sensors

Our thermopile infrared sensors provide improved non-contact temperature measurement solutions.



Digital Temperature Sensors

Our digital temperature sensors provide industry leading 0.1°C accuracy. The temperature system sensors (TSYS) are available in miniature packages designed specifically for tight spaces and respond quickly to changes in process temperature.

PRESSURE SENSORS



Board Mount Pressure Sensors

TE offers PCB mountable pressure sensors for gage, differential and absolute pressure measurements for various applications i.e., air flow, gas flow and barometric air pressure.

**EVERY CONNECTION.
EVERY BEAT.
ENABLING BETTER HEALTH.**



SHOP ONLINE ORDER SAMPLES



CONTACT US



**Extensive
Product Breadth**



**End-to-End
Partnership**



**State-of-the-Art
Antenna Laboratories and
In-house Testing**



**Scalability in
Manufacturing**



**One Stop Shop for Antennas
+
3D Printed Electronics
+
Capability to Mount Components**

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