





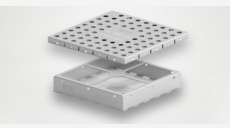


SMART SURVEILLANCE

SPECIFIC APPLICATIONS:

- Parking Control
- Traffic Control
- Crime Detection and Prevention
- Emergency Surveillance Response

Product	Features	Benefits	Product Family
Board to Board			
0.5mm, 0.6mm, 0.8mm Free Height Connectors 	<ul style="list-style-type: none"> Allows for high pin counts in a small footprint to save PC board real estate Available in 220, 240, and 440 position configurations Offered in a variety of stacking heights, ranging from 5mm to 8mm Available on tape-and-reel packaging for lead protection and automated placement Intel qualified for COM Express 	<ul style="list-style-type: none"> Allows for high pin counts in a small footprint to save PC board real estate Offered in a variety of stacking heights, ranging from 5mm to 8mm Available on tape-and-reel packaging for lead protection and automated placement Compatible with standard pick-and-place vacuum nozzles Available with UL and RoHS compliant parts 	Board-To-Board Connectors
Z-PACK HM-ZD Connectors 	<ul style="list-style-type: none"> Specified high speed connector by PXI system alliance Upgradable performance from 10G to 25G+ bps Available for 20, 30, 40 differential pairs Robust ground shield promotes mechanical durability Fully interchangeable intermatable with Erni (reports available) New PCIe Gen5 HMZD can get data rate upgrade and be backward compatible with Z-PACK HMZd / HMZd Plus 	<ul style="list-style-type: none"> Enables field speed upgrades using the Z-PACK HM-Zd plus receptacles plugged into existing Z-PACK HM-Zd backplane connectors Smaller PTH size of 0.46mm 	High Speed Connectors
M.2 Connectors 	<ul style="list-style-type: none"> 0.5mm pitch with 67 positions Designed for both single- and double-sided modules Available in various keying options for module cards Support PCI Express 3.0, USB 3.0, and SATA 3.0 Choice in height, position, design, and keying option Available in various heights 	<ul style="list-style-type: none"> The M.2 Next Generation Form Factor (NGFF) product line is a natural transition from the mini card and half-mini card to a smaller form factor in both size and volume WiFi, Bluetooth, global navigation satellite systems, near field communication, hybrid digital radio, Wireless Gigabit Alliance (WiGig), wireless wide area network, and solid-state storage devices It also adds functionality to PCIe Gen 3, SATA 3, SATA I/O, and USB 3.0. The new, smaller form factor is suitable for applications in new thin platforms 	PCB Connectors
Headers & Receptacles 	<ul style="list-style-type: none"> Allows for high pin counts in a small footprint to save PC board real estate Available in 220, 240, and 440 position configurations Offered in a variety of stacking heights, ranging from 5mm to 8mm Available on tape-and-reel packaging for lead protection and automated placement Compatible with standard pick-and-place vacuum nozzles Available with UL and RoHS compliant parts 	<ul style="list-style-type: none"> Reliable high-speed data transmission with greater clarity Flame-retardant, polarized housings that can protect connections in harsh environments 	Connectors
SIM Card Connector 	<ul style="list-style-type: none"> Large portfolio covering a wide range of styles and card sizes Connectors optimized for reliability Spherical contact points improve normal force Pre-loaded contacts Anti-retention features in the contacts Series offers the best possible design freedom with many products scalable in height within the same form factor Best possible applied cost by fully automated processing 	<ul style="list-style-type: none"> Large, versatile portfolio offers the best product closest to your need Highly reliable connector technology helps customers reduce production line defect rates - ultimately reducing costs for quality control and service Very broad design freedom creates optimal possibilities for the design engineer to match the device's requirements Fully-automated processing leads to stable quality global footprint means enhanced support for all regions 	Memory Card Connectors
AMPMODU Connectors 	<ul style="list-style-type: none"> Assembly design offers latching and polarization Coupling shrouds permit ganging of smaller receptacle and pin assemblies with guide ribs to form larger single or dual row latching connectors Available in three platings Swage option on posts provide retention in PC board High temperature option is SMT compatible to 265 degree wave 	<ul style="list-style-type: none"> AMPMODU MTE Connectors are available in IDC and crimp termination types and can utilize the discrete "Short Point" contact Latching capability provides positive retention between housings 	AMPMODU Connectors

Product	Features	Benefits	Product Family
<p>Spring Fingers</p> 	<ul style="list-style-type: none"> • Extensive off-the-shelf offering of spring fingers/grounding products • Available in heights as low as 0.4mm and up to 7.0mm • Type: standard, side-protected, preloaded, ultra low-profile • The preload function nearly doubles the working area of a common spring finger and increases contact force by 0.2N 	<ul style="list-style-type: none"> • Tiny, scalable, surface mountable contacts allow designers to fit grounding solutions almost anywhere 	<p>Board-To-Board Connectors</p>
Wire to Board			
<p>Flexible Printed Circuit (FPC) Connectors</p> 	<ul style="list-style-type: none"> • Pitch: 0.25 to 1.25 pitch • Pin counts: 3 to 60 pins • Slant FPC insertion option to maximize PCB layout area • Low profile (less than 1mm) economical product offerings • Wide portfolio enabling high design flexibility with proven quality and reliability 	<ul style="list-style-type: none"> • Can accommodate FPC/FPC cable • Available in ZIF and non-ZIF styles • Variety of centerline spacing options • Available in SMT and T/H PCB termination • Requires no tooling • Available in right-angle and vertical mounting orientations • Right-angle version available with top, bottom or dual contact • Solder pads and kinked legs for PCB retention • Locking feature provides high retention force 	<p>FFC, FPC and Ribbon Connectors</p>
<p>High Performance Interconnects (HPI) Connectors</p> 	<ul style="list-style-type: none"> • Centerline: 1.0mm - 2.5mm • Positions: 2-32 • Square-peg technology enables product compatibility with industry standard products • Broad portfolio that can be used anywhere a signal or low power needs to be routed through a device 	<ul style="list-style-type: none"> • High performance and high reliability • Square-peg style enables interchangeability with competitors • Header + COSI (crimp on snap in) connectors • Polarized • Positive latching with audible click feedback when mating • Different colors available for system color coding • AWG 30-24 	<p>Wire-To-Board Connectors</p>
<p>AMP CT Interconnects</p> 	<ul style="list-style-type: none"> • Two termination methods: IDC, Crimp • IDC AWG 26-28 • Crimp AWG 24-28 • Circuits range from 2-20 single row and 20-40 dual row • Kinked leg options for self-retention on boards • Drawer and lattice series • Panel mount configuration available • RoHS compliant • Component Program of Underwriters Laboratories Inc., File No. E28476 • Canadian Standards Association, File No. LR 7189-133 	<ul style="list-style-type: none"> • AMP CT connectors are a miniature wire-to-board and wire-to-wire interconnect solution and has proven performance in its harness making capability. A variety of harness-making machines are available ranging from hand tools for low volume production to high-speed automatic crimping machines for medium to high volume productions • AMP high-speed automatic crimping machines are easy to operate, eliminating the need for tedious work of changing parts inside the equipment to adapt to changes in harness styles • Two types of housings are available, including Crimp and Mass Terminated (MT), which are preloaded with insulation displacement contacts • The box or shrouded headers are highly resistant to scooping at mating/unmating 	<p>Wire-To-Board Connectors</p>
<p>AMP Mini CT Interconnects</p> 	<ul style="list-style-type: none"> • Two termination methods: IDC, Crimp • IDC AWG 26-28 • Crimp AWG 24-28 • Circuits range from 2-20 single row and 20-40 dual row • Kinked leg options for self-retention on boards • Drawer and lattice series • Panel mount configuration available • RoHS compliant • Component Program of Underwriters Laboratories Inc., File No. E28476 • Canadian Standards Association, File No. LR 7189-133 	<ul style="list-style-type: none"> • AMP Mini CT connectors are miniature wire-to-board and wire-to-wire connectors. Like the standard AMP CT connector series, these connectors are tailored for improved harness productivity and feature a compact design with contacts on 1.5 mm pitch • Wire-side connectors can be used to produce a variety of harness styles by fully automatic high-speed assembling machines 	<p>Wire-To-Board Connectors</p>

Product	Features	Benefits	Product Family
RF / Antenna / Shielding			
RF Connectors 	<ul style="list-style-type: none"> Testing cable assemblies support up to 67 GHz Can provide the reliable, high performance required by test and measurement and other demanding applications One of the highest performing in the industry, with extremely low insertion loss and VSWR: We make it easy to get these products fast, with competitive pricing and fast delivery 	<ul style="list-style-type: none"> Improved passive intermodulation (PIM) and return loss performance Space savings Easy installation Customizable designs 	RF Coax Connectors
Standard Antenna and Custom Antennas 	<ul style="list-style-type: none"> High reliability: high performance and isolation High efficiency: optimized throughput, minimal losses State of the art antenna laboratories and global footprint In-house testing and validation Implementation services An innovation leader Quick-turn designs and prototypes World class fully-integrated manufacturing capabilities 	<ul style="list-style-type: none"> Ability to selectively and repeatably plate 3 dimensionally Space savings Ability to produce thin (0.15mm) traces Improved antenna performance Applied cost savings Fast time to market Flexibility for pattern changes during production Simple/fast/low cost tooling 	Antennas
Board Level Shielding 	<ul style="list-style-type: none"> Two-piece solution (minimum 0.85mm height) One-piece solution (minimum 0.7mm height) Standardized materials and thicknesses Use of standardized features includes: corner shape, carrier attachment, SMT (castellations), bending radii, pick and place features, through holes, locking holes, locking and contact dimples 	<ul style="list-style-type: none"> EMI shields that minimize crosstalk in complex devices without affecting system speed 	EMI Filters
USB Type-C Connectors 	<ul style="list-style-type: none"> Supports USB 2.0, USB 3.1 Gen 1 and USB 3.1 Gen 2 types Deliver power up to 100W at 20V IPX8 waterproof and IPX4 splash proof options available Available in one of the smallest dual row SMT footprints, saving valuable board real-estate 	<ul style="list-style-type: none"> Provide one interconnect solution for data, power and A/V Designed with a flippable and reversible mating interface Backward compatible to other USB connectors using converter cables or adaptors Distinctive design on the back of the receptacle shell for industry leading EMI performance Enhanced board retention features for added durability 	USB Type-C Connectors
PCB Connectors			
2.5mm Sealed Signal Double Lock Connectors 	<ul style="list-style-type: none"> Space saving 2.5mm pitch Available in 2-13 position wire-to-board and 2-10 position wire-to-wire configurations 26-20 AWG Current rating of up to 3A max Audible click when contact is fully inserted into the housing 	<ul style="list-style-type: none"> Polarizing ribs on plug housing allows proper mating Solder tail kink along with the polarization peg (boss) feature, secures the header on the board during the solder process UL recognized, CSA certified and TUV approved Choice of V-0 rated material or GWT and V-0 rated material 	PCB Connectors

te.com/smart-surveillance

AMP, AMPMODU, TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2021 TE Connectivity Ltd. family of companies All Rights Reserved.

05/21 Original

Great Ways to Connect with Us



[More Resources](#)



[Online Store](#)

24/7

[24/7 Support](#)



[Order Samples](#)