Stay ahead of the trends for increased building intelligence with our proven interconnect solutions. Our products can:

- help you add or expand device intelligence
- bring power and increased data bandwidth to end point devices
- extend the performance and range of end device communication to the network.

Whether you’re designing a fire detection, video surveillance or access control system, we offer the right solutions to help accelerate your path to market.
# Building Safety & Security

## Input/Output (I/O) & Cable Assemblies

**Product satisfaction depends on reliable I/O and cable assembly connectivity**

<table>
<thead>
<tr>
<th><strong>Input/Output (I/O) &amp; Cable Assemblies</strong></th>
<th><strong>Wire-to-Board</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI Connectors</td>
<td>We offer a broad array of products for your wire-to-board requirements</td>
</tr>
<tr>
<td>Digital audio and video in one popular format available with full shielding for ESD protection</td>
<td></td>
</tr>
<tr>
<td><strong>RJ45 Connectors</strong></td>
<td><strong>Common Termination (CT) Connectors</strong></td>
</tr>
<tr>
<td>Our broad range of modular I/O jacks and plugs offer reliable and space-saving solutions</td>
<td></td>
</tr>
<tr>
<td><strong>USB Connectors</strong></td>
<td><strong>Mini CT Connectors</strong></td>
</tr>
<tr>
<td>Universal and user-friendly, TE offers micro USB, USB 3.0, and the high-power and reversible USB Type-C solutions</td>
<td></td>
</tr>
<tr>
<td><strong>Multimedia Cable Assemblies</strong></td>
<td><strong>High Performance Interconnects (HPI)</strong></td>
</tr>
<tr>
<td>From DVI and HDMI, to DisplayPort and USB, we support the latest high-speed standards</td>
<td></td>
</tr>
<tr>
<td><strong>Bulk Cable</strong></td>
<td><strong>Flexible Printed Circuit (FPC) Connectors</strong></td>
</tr>
<tr>
<td>Specialty cables custom-engineered for precision signal integrity and harsh environments</td>
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## Antennas

**Antenna performance, reliability and durability are essential**

<table>
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<tr>
<th><strong>Antennas</strong></th>
<th><strong>Board-to-Board</strong></th>
<th><strong>Power &amp; Grounding</strong></th>
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<tr>
<td>Embedded Antennas</td>
<td>Excellent signal integrity mitigates negative effects of electrical noise</td>
<td>Our miniaturized solutions help reduce and control the effect of EMI in complex systems</td>
</tr>
<tr>
<td>A range of products supporting low profile wireless connectivity for 4G and 5 GHz Wi-Fi applications</td>
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## Board-to-Board

**Antennas**

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<tr>
<td>Free Height Connectors</td>
<td>Battery Connectors</td>
</tr>
<tr>
<td>These versatile connectors may be useful for downsizing applications that require parallel stacked circuit boards</td>
<td></td>
</tr>
<tr>
<td>Balance current carrying capabilities, provide higher amps, and support fast charging times with a range of solutions</td>
<td></td>
</tr>
</tbody>
</table>

## Power & Grounding

<table>
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<tr>
<th><strong>Power &amp; Grounding</strong></th>
<th><strong>Card &amp; Socket</strong></th>
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</thead>
<tbody>
<tr>
<td>Spring Fingers</td>
<td>From IC sockets to SD cards, we make it easy to get connected and process, share or store data</td>
</tr>
<tr>
<td>Tiny, scalable, surface mountable contacts allow designers to fit grounding solutions in most places</td>
<td></td>
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## Card & Socket

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<td><strong>DIP Sockets</strong></td>
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<tr>
<td>Provide a reliable connection between integrated circuits (ICs) and printed circuit boards (PCBs) with contact counts ranging from 6 to 48</td>
</tr>
<tr>
<td>Dual in-line memory module sockets design to JEDEC industry standards. Enable reliable connection to standard memory modules</td>
</tr>
<tr>
<td><strong>Mini Spring Sockets</strong></td>
</tr>
<tr>
<td>A series of individual sockets provide low contact resistance with a low profile design for tighter board stacking and increased PCB clearance</td>
</tr>
<tr>
<td>Standard, micro, or micro/SIM combos with available push/pull and push/pull matings</td>
</tr>
</tbody>
</table>

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As industry requirements are evolving to more flexible, reconfigurable production machinery and factory systems, we provide the important connectivity solutions to get you there. We offer interconnects for signal, data and power appropriate for use in a broad range of operating environments, from commercial to light and heavy industrial applications.
# INDUSTRIAL CONTROL SYSTEMS

## POWER

**CROWN CLIP Bus Bar Connectors**
- Offers a low insertion/extraction force for high-current mating directly to a power bus bar

**Pluggable Bus Bar Connectors**
- Available in board-to-busbar, wire-to-busbar and board-to-busbar configurations. Provides a separable connection easy assembly, inspection and troubleshooting.

**RAPID LOCK Bus Bar Connectors**
- No install tools required for this fast, reliable replacement for power lugs

## WIRE-TO-BOARD

We offer a broad array of products for your wire-to-board requirements

**AMP-LATCH Connectors**
- Proven ribbon cable solution for connecting boards or subsystems to each other

**Mini CT Connectors**
- 1.5mm centerline connectors feature both crimp and IDC style interconnects with many header options

**Common Termination (CT) Connectors**
- 2mm centerline connectors feature both crimp and IDC style interconnects with many header options

## BOARD-TO-BOARD

**ELCON Mini Connectors**
- Low profile solutions with up to 40A per contact and positive latch retention for cable-to-PCB applications

**ELCON Drawer Connectors**
- High power hot-pluggable, blind-mate power connectors with power signal and logic contacts in numerous sizes up to 200A per contact

**MULTI-BEAM XLE Connectors**
- This hot-pluggable series is a space saver with slim guide sockets and vented housing for better heat dissipation

## INPUT/OUTPUT (I/O)

**AMPLICITE D-Sub Connectors**
- A complete range of quality, time-tested D-subminiature connectors that have become the standard in the industry

**RJ45 Connectors**
- Our broad range of modular I/O jacks and plugs offer reliable and space-saving solutions

**DIMM Sockets**
- Dual in-line memory module sockets designed to JEDEC industry standards. Enable reliable connection to standard memory modules

## SOCKETS

**DIP Sockets**
- Provide a reliable connection between integrated circuits (ICs) with contact counts ranging from 6 to 48

**High Performance Interconnects (HPI)**
- Industry standard square-peg technology in single- and dual row post headers available in various pitches and colors

## CABLE & CABLE ASSEMBLIES

**SFP/SFP+ Connectors**
- SFP+ interconnects support data rates of 10 Gbps signal speeds and are backward compatible with SFP.

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**Pluggable I/O Cable Assemblies**
- Supporting the latest high speed standards, these products are engineered for 10-25 Gbps and beyond

**Bulk Cable**
- Specialty cables custom-engineered for precision signal integrity and harsh environments

**USB Type-C Connectors**
- Universal and user-friendly. USB Type-C features a reversible mating interface. Can transfer data up to 10 Gbps, power up to 100W and A/V in a single slim connection

**ELCON Mini Cable Assemblies**
- These power cable assemblies come in standard or high-flex designs for easier routability

*High speed backplane connectors include: Z-PACK 2mm HM, Z-PACK HM-Zd, Z-PACK TinMan, Impact, Z-PACK Slim UHD, STRADA Whisper*

**STRADA Mesa Connectors**
- Mezzanine connectors with a pin and socket signal contact design and integrated power contacts

**High Speed Backplane Connectors**
- Portfolio provides flexibility to address increasing bandwidth demands and higher performance

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LIGHTING EQUIPMENT

BRING YOUR BRIGHTEST IDEAS TO LIFE

Our wire-to-board, input/output, antenna and shielding solutions are easily integrated into whole-home or -building lighting systems. Our easy to terminate connectors provide power or signal transmission for indoor lighting fixtures while our antenna solutions are enabling the connected, smart lighting systems of the future.
LIGHTING EQUIPMENT

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- **Mini CT Connectors**
  1.5mm centerline connectors feature both crimp and IDC style interconnects with many header options

- **AMP-LATCH Connectors**
  Quick, reliable wire-to-board connections without stripping or prepping wires

- **Flexible Printed Circuit (FPC) Connectors**
  Space saving solutions for signal routing. Available in 0.25 to 1.25mm centerlines in both ZIF and non ZIF styles.

- **High Performance Interconnects (HPI)**
  Industry standard square-peg technology in single- and dual row post headers available in various pitches and colors

ANTENNAS & SHIELDING

Antenna performance, reliability, and durability are essential

- **Embedded Antennas**
  A range of products supporting low profile wireless connectivity for 4G and 5 GHz Wi-Fi applications

- **Spring Fingers**
  Tiny, scalable, surface mountable contacts allow designers to fit grounding solutions in most places

- **Board Level Shielding (BLS)**
  EMI shields that minimize crosstalk in tightly designed multi-signal systems

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