TE Connectivity (TE), a voting member of Universal Serial Bus – Implementers Forum (USB-IF), offers new USB 3.0 connectors that retain all the great features of previous generations of USB connectors with even better performance and power management.

TE Connectivity offers a full line of USB 3.0 product solutions, including various configurations of Standard A and B style plugs and receptacles; and cable assemblies. Various stacked and combination variations are expected to round out the TE Connectivity USB 3.0 portfolio.

**FEATURES AND BENEFITS**
- Supports up to 5 Gbps
- 10X faster than USB 2.0
- Optimized power efficiency
- Backward compatible with USB 2.0
- Minimized connector from factor variations

**PRODUCT APPLICATIONS**
- Ultrabooks
- Tablets
- Desktop and laptop computers
- Cameras
- Digital audio
- High-volume storage devices
- High definition A/V equipment
- Game controllers
- Set top boxes
USB 3.0 has a 10x performance increase over USB 2.0

- Standard A receptacle has same interface as the USB 2.0, but with added pins for SuperSpeed USB signals

<table>
<thead>
<tr>
<th>Pin #</th>
<th>Signal Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>VBUS</td>
<td>Power</td>
</tr>
<tr>
<td>2</td>
<td>D-</td>
<td>USB 2.0 differential pair</td>
</tr>
<tr>
<td>3</td>
<td>D+</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
<td>Ground for power return</td>
</tr>
<tr>
<td>5</td>
<td>StdA_SSRX-</td>
<td>SuperSpeed receiver</td>
</tr>
<tr>
<td>6</td>
<td>StdA_SSRX+</td>
<td>Differential pair</td>
</tr>
<tr>
<td>7</td>
<td>GND_DRAIN</td>
<td>Ground for signal return</td>
</tr>
<tr>
<td>8</td>
<td>StdA_SSTX-</td>
<td>SuperSpeed transmitter</td>
</tr>
<tr>
<td>9</td>
<td>StdA_SSRX+</td>
<td>Differential pair</td>
</tr>
</tbody>
</table>

Applications

1. Smart Phone
2. Digital Camera
3. Gaming
4. Tablet

Looking for a small form factor alternative to micro USB 3.0 connector?

TE Connectivity is also offering High-Speed Multi I/O connector which is one of the industry’s first high-speed multiple I/O products to transfer USB 3.0 signals in a micro USB 2.0 form factor.

For more information: [www.te.com/products/HSMIO](http://www.te.com/products/HSMIO)

KEY FEATURES

- Backwards compatible to micro USB 2.0 plug
- Similar size as micro USB 2.0
- Meets USB 3.0 speed requirements
- USB PD (Power Delivery) capable at 3A, max 20V according to USB PD specification
- Optional additional power or MHL/MyDP contacts

[te.com/products/usb3](http://te.com/products/usb3)
<table>
<thead>
<tr>
<th>Base Part #</th>
<th>Type</th>
<th>Plug/Recpt</th>
<th>Ports</th>
<th>TH/SMT</th>
<th>Orientation</th>
<th>Std/Rvs</th>
<th>Offset</th>
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<tr>
<td>1932266</td>
<td>A</td>
<td>Plug</td>
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<td>-</td>
<td>Std</td>
<td>-</td>
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<tr>
<td>1932258</td>
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<td>1</td>
<td>TH</td>
<td>RA</td>
<td>Std</td>
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</tr>
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<td>Recept</td>
<td>1</td>
<td>TH</td>
<td>RA</td>
<td>Rvs</td>
<td>-</td>
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<tr>
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<td>Recept</td>
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<td>TH</td>
<td>RA</td>
<td>Std</td>
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<td>TH</td>
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<td>Rvs</td>
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<td>RA</td>
<td>Std</td>
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<table>
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<tr>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Std A to Std B</td>
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</tr>
<tr>
<td>Std A to Micro B</td>
<td>Black</td>
</tr>
<tr>
<td>Std A Male to Std A Male</td>
<td>Black</td>
</tr>
</tbody>
</table>
Frequently asked questions

Question 1
How do I know which product is USB 3.0 compliant?
Answer 1
Visit: http://www.usb.org/developers/compliance

Question 2
How do I get the TID no. for USB 3.0 certification?
Answer 2

Question 3
How do I find the operating temperature range?
Answer 3
Visit: http://www.te.com/products/usb3
See performance characteristics section.

Question 4
Is a USB 3.0 receptacle capable of accepting a USB 2.0 plug?
Answer 4
Yes, but it will run at USB 2.0 speed.

Question 5
Are USB 2.0 products being eliminated?
Answer 5
There is likely to be a transition to USB 3.0 but USB 2.0 will be available for the foreseeable future.

Question 6
Is there a Mini USB available in the 3.0 spec?
Answer 6
No. Mini and Micro are combined into Micro USB 3.0.

FOR MORE INFORMATION

TE Connectivity Technical Support Center
USA: +1 (800) 522-6752
Canada: +1 (905) 475-6222
Mexico: +52 (0) 55-1106-0800
Latin/South America: +54 (0) 11-4733-2200
Germany: +49 (0) 6251-133-1999
UK: +44 (0) 800-267666
France: +33 (0) 1-3420-8686
Netherlands: +31 (0) 73-6246-999
China: +86 (0) 400-820-6015
For other country number go to te.com/supportcenter

Part numbers in this brochure are RoHS Compliant*, unless marked otherwise.
*as defined www.te.com/leadfree