

# Quick Reference Guide

## USB 3.0 Connectors & Cables

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 form factor variations

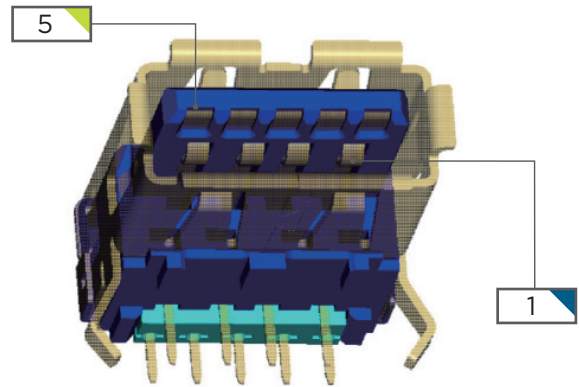
### PRODUCT APPLICATIONS

- 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

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



## Applications



1 Smart Phone



2 Digital Camera



3 Gaming



4 Tablet

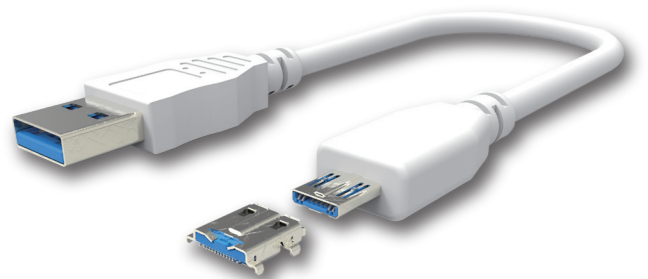
## Looking for a small form factor alternative to micro USB 3.0 connector?

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



	Base Part #	Type	Plug/Recept	Ports	TH/SMT	Orientation	Std/Rvs	Offset
FULL SIZE USB 3.0 Connectors	1932266	A	Plug	1	-	-	Std	-
	1932258	A	Recept	1	TH	RA	Std	-
	1932847	A	Recept	1	TH	RA	Rvs	-
	1932965	A	Recept	1	TH	RA	Std	CL = 2.65
	1932966	A	Recept	1	TH	RA	Rvs	CL = 0.36
	2041179	A	Recept	1	TH	RA	Std	CL = 1.04
	2041555 (Coming Soon)	A	Recept	2	TH	RA	Std	-

	Base Part #	Description	Color
USB 3.0 Cable Assemblies	2117154	Std A to Std B	Black
	2117155	Std A to Micro B	Black
	2117156	Std A Male to Std A Male	Black

# 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

**Visit:** <http://www.usb.org/kcompliance/view>.

## 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](http://te.com/supportcenter)

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\*as defined [www.te.com/leadfree](http://www.te.com/leadfree)

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6-1773457-0 CD Ignite 06/2014

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