

USB 3.1 Gen 1 Type C Connector

Superior performance up to 5Gb/s

COMPACT AND RELIABLE CONNECTOR

USB 3.1 Type C Gen 1 is the new standard plug and receptacle providing multifunction single cable solution for data, power, audio and video. The small form factor made this interconnection the unquestioned technology across all devices. The reversible design enables quick and easy connections no matter which way it is inserted. It supports power delivery up to 100W and performance speed up to 5Gb/s.

- Supports SuperSpeed 5Gb/s
- Reversible plug and cable orientation
- Slim and sleek design
- Better EMI shielding design



TARGET MARKETS



FEATURES

- Supports SuperSpeed communication 5Gb/s
- Reversible plug and cable orientation
- Robust and small form factor design
- Better EMI (Electromagnetic Interference) shielding design
- Various options available: Right angle dual SMT and Hybrid style, Top mount and Mid mount, Long shell and Short body
- RoHS compliant and lead-free

BENEFITS

- Minimizes user waiting time
- Ready for next-generation applications
- Ensures quick and easy connections whichever way it is inserted
- Tailored for emerging product designs
- Suitable for applications in very thin platforms and the I&I market
- Protects against EMI and ESD (Electromagnetic Discharge)
- Flexible solution for different applications
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Thermoplastic
- Shell: Stainless Steel
- Terminal: Copper Alloy

MECHANICAL PERFORMANCE

- Mating Force: 5 to 20N
- Durability: 10,000 mating cycles

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance:
 - Initial: 40mΩ max.
 - $\Delta R = \pm 10m\Omega$ max. after environmental stress
- Insulation Resistance: 100MΩ min.
- Transfer SuperSpeed: 5Gb/s
- Voltage Rating: 100VAC/DC
- Current Rating:
 - 5.0A for VBUS and GND
 - 1.25A for Vconn and GND
 - 0.25A for all other contacts
- Dielectric Withstand Voltage: 100VAC

PACKAGING

- Receptacle: Tape/Reel
- Plug: Tray

PART NUMBERS

Description	Orientation	Mounting Style	Part Numbers
USB 3.1 Type C Gen 1 receptacle	Right angle	Top mount SMT + DIP (Long shell)	0137060-00021LF
USB 3.1 Type C Gen 1 receptacle	Vertical	Top mount dual SMT	10138002-10011LF
USB 3.1 Type C Gen 1 receptacle	Right angle	Mid mount dual SMT (Short body)	10137064-00021LF
USB 3.1 Type C Gen 1 receptacle	Right angle	Top mount SMT + DIP (Short shell)	10137061-00021LF
USB 3.1 Type C Gen 1 receptacle	Right angle	Top mount SMT + DIP (Short body)	10137062-00021LF
USB 3.1 Type C Gen 1 receptacle	Right angle	Top mount dual SMT (Short body)	10137065-00021LF
USB 3.1 Type C Gen 1 receptacle	Right angle	Top mount SMT+ DIP (Angled entrance)	10137066-00021LF

SPECIFICATION

- Amphenol Product Specification: GS-12-1336
- Amphenol Packaging Specification: GS-14-2487

ENVIRONMENTAL

- Operating Temperature: -55°C to 85°C

TARGET MARKETS/APPLICATIONS



Infotainment



Adaptor
Flash Drive
Laptop
Phone
Portable Power Bank
Portable HDD
Tablet
Wearable Device



Motherboard Add-on Card
Storage Adaptor
Storage Enclosure



Factory Automation Equipment
Industrial Equipment