

USB Type C Connector System

SCALABLE, SUPERSPEED CONNECTOR SYSTEM

USB Type C connectors are expected to be widely used as a next-generation interface. They support a variety of protocols such as USB2.0/3.0/3.1 and meet Superspeed communication 10Gb/s, 5A and 20V power supply.

The usability for USB 3.1 Type C connector is enhanced also by its low profile and reversible product design. It is ideal for emerging product designs.

- Reversible plug and cable orientation
- Meets USB 3.1/3.0/2.0 speed performance
- Supports high speed transmission up to 10Gb/s
- Extended 5A current rating for USB Power delivery
- Vertical, right angle and straddle mount configurations and waterproof type available

NEW


TARGET MARKETS



FEATURES

- Tailored for emerging product designs
- Similar size as Micro USB
- Supports high speed transmission up to 10Gb/s
- Extended 5A current rating for USB Power delivery
- Designed to establish future USB performance needs
- Up to 10,000 mating cycles

BENEFITS

- Reversible plug and cable orientation for better user experience
- Smaller connector size saves space
- Meets USB 3.1 specification
- Backward compatible with USB 2.0/3.0 to meet different application requirements
- Meets USB power delivery protocol
- Supports audio and video signal output with alternate mode
- Enhanced durability

TECHNICAL INFORMATION

MATERIAL

- Housing: High Temperature Polymer, UL94V-0, Black
- Contact: Copper Alloy
- Shell: Stainless Steel

MECHANICAL PERFORMANCE

- Insertion Force: 5N to 20N
- Extraction Force: 8N to 20N
- Extraction Force (after durability): 6N to 20N
- Durability: 10,000 mating cycles

ELECTRICAL PERFORMANCE

- Contact Resistance: 40mΩ max. initial for VBUS, GND and all other contacts
- Insulation Resistance: 100mΩ min. initial
- Dielectric Withstanding Voltage: 100V AC

PACKAGING

- Tray/Tape and Reel available upon request

SPECIFICATION

- Amphenol Product Specification: USB Type C Series Spec

APPROVALS AND CERTIFICATIONS

- RoHS

PART NUMBERS

| Product | Description | Part Numbers |
|---------------------------------|--|----------------|
| USB 3.1 Gen 2 Type C Receptacle | Right angle, Top mount dual SMT, 0.9mm shell tab | 12401610E4#2A |
| USB 3.1 Gen 2 Type C Receptacle | Right angle, Top mount dual SMT, 2.1mm shell tab | 12401598E4#2A |
| USB 3.1 Gen 2 Type C Receptacle | Right angle, Top mount dual SMT, 1.3mm shell tab | 12401832E4#2A |
| USB 3.1 Gen 2 Type C Receptacle | Right angle, Top mount dual SMT, for 1.6mm PCB | 12401826E412A |
| USB 2.0 Type C Receptacle | Right angle, Mid mount SMT | 12401834E412A |
| USB 3.1 Gen 2 Type C Receptacle | Right angle, Mid mount SMT, Short type | 124018402112A |
| USB 3.1 Gen 2 Type C Receptacle | Right angle, Top mount SMT, High-rise type | GSB4C3JXXXHHHR |
| USB 3.1 Gen 1 Type C Receptacle | Right angle, Mid mount SMT, IPX8 waterproof | 1240183121#2A |
| USB 3.1 Gen 1 Type C Receptacle | Right angle, Top mount Hybrid, Double shells | GSB3CA1X315HHR |
| USB 3.1 Gen 2 Type C Receptacle | Vertical | 12401661E4#2A |
| USB 3.1 Type C Plug | Straddle mount | GSB3C71X313HHR |

ENVIRONMENTAL

- Humidity: 40±2°C, 90 to 95%(RH), for 96 hours
- Temperature Life: 105±2°C for 120 hours

TARGET MARKETS/APPLICATIONS



Charger
Car Media Player/Hub



Telecommunication



Connector Hub
Flash Disk
Mobile Phone/Tablet
VR Camera



Hard Disk Drives
Solid State Drives



Industrial Computer
POS System



Medical

Mouser Electronics

Authorized Distributor

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[124018982112A](#) [12401824E412A](#) [12401808E412A](#) [124018392112A](#) [12401849E412A](#)