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

▪ Durabilty: 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

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

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

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For more information,
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