

USB 4 Gen 3 Type C

MULTI-PROTOCOL, HIGH-SPEED USB SOLUTION FOR NEXT GENERATION DEVICES

USB 4, fully compatible with the Thunderbolt™ 4 (TBT4) interface, supports power delivery, high-speed PCIe® data transfer, and DisplayPort® audio/video — all through a single USB Type C connector. It is ideal for use in a wide range of devices, including personal computers, tablets, VR/AR headsets, gaming consoles, docking stations, solid-state drives (SSDs), and display peripherals such as monitors and projectors.

- USB 4 Gen 3 (40 Gb/s) certified
- Power rating up to 240 W
- High-speed transmission up to 40 Gb/s
- Optimized contact design for superior signal integrity performance
- Reversible plug and cable orientation



TARGET MARKETS



FEATURES

- High-speed transmission up to 40 Gb/s
- High power and fast charging
- Various mounting types (Top, Middle, Vertical)
- Reversible plug orientation ensures easy insertion
- High durability up to 10,000 mating cycles
- Mid-plate tongue design
- All-in-one simplicity

BENEFITS

- High-speed data communication
- Extended 5 A current rating for USB Power delivery and up to 240 W
- Offer design flexibility
- Connect cable without worrying about the plug's orientation or the cable's direction
- Enhanced durability and reduced wear out from cyclic operation
- Ensure high reliability while preventing damage from connector mishandling
- Support power delivery, data transfer, and video output in one connector

TECHNICAL INFORMATION

MATERIAL

- Housing: LCP UL94-V0
- Molding Housing: Black, High-temperature Plastic
- Top Terminal: Copper Alloy
- Bottom Terminal: Copper Alloy
- Mid Plate: Stainless Steel
- Outer Shell: Stainless Steel
- Main Shell: Stainless Steel
- Small Shell: Stainless Steel

MECHANICAL PERFORMANCE

- Durability: 10, 000 cycles
- Insertion Force: 5~20 N
- Extraction Force: 8~20 N

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: 40 mΩ max.
- Insulation Resistance: 100 mΩ min.
- Contact Current Rating: 5 A max.
- Dielectric Withstanding Voltage: 100 VAC

PACKAGING

- Tape & Reel

SPECIFICATIONS

- Amphenol Product Specification

APPROVALS AND CERTIFICATIONS

- RoHS
- Halogen-free

ENVIRONMENTAL

- Operating Temperature Range: -40 °C to +85 °C

TARGET MARKETS/APPLICATIONS



PCs
Tablets
VR/AR Headsets
Gaming Consoles
Docking Stations
SSDs
Peripherals (Monitor/Display, Projector)

PART NUMBERS

Description	Part Numbers
USB 4 Gen 3, Type C, Receptacle, R/A, Top mount, Center Height 1.58 mm, Dual Row SMT	GSB4D313302Y1HR
USB 4 Gen 3, Type C, Receptacle, R/A, Top mount, Center Height 1.57 mm, Dual Row SMT	12402056E512A
USB 4 Gen 3, Type C, Receptacle, R/A, Top mount, Center Height 1.57 mm, Dual Row SMT	12402073E512A
USB 4 Gen 3, Type C, Receptacle, R/A, Mid mount, Center Height 0.47 mm, Dual Row SMT	12402075E512A
USB 4 Gen 3, Type C, Receptacle, R/A, Mid mount, Center Height -0.1 mm, Dual Row SMT	12402072E512A
USB 4 Gen 3, Type C, Receptacle, R/A, Mid mount, Center Height -1.15 mm, Dual Row SMT	12402133E512A
USB 4 Gen 3, Type C, Receptacle, R/A, Mid mount, Center Height -0.64 mm, Dual Row SMT	12402137E512A
USB 4 Gen 3, Type C, Receptacle, R/A, Mid mount, Center Height -1.1 mm, Hybrid	12402148E512A
USB 4 Gen 3, Type C, Receptacle, R/A, Mid mount, Center Height -0.28 mm, Dual Row SMT	12402153E512A
USB 4 Gen 3, Type C, Receptacle, R/A, Top mount, Center Height 1.1 mm, Dual Row SMT	12402194E512A
USB 4 Gen 3, Type C, Receptacle, R/A, Mid mount, Center Height 3.4 mm, Hybrid	12402102E512A
USB 4 Gen 3, Type C, Mid Mount, Center Height 0.47 mm, Dual Row SMT	12402094E512A
USB 4 Gen 3, Type C, Mid Mount, Center Height -1.55 mm, Dual Row SMT	12402333E512A
USB 4 Gen 3, Type C, Top Mount, Center Height 3.4 mm, Dual Row SMT	12402362E512A
USB 4 Gen 3, Type C, Top Mount, Center Height 3.4 mm, Dual Row SMT	12402363E512A

Find part number details using the search box on www.amphenol-cs.com

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