

# USB 4 Gen 3 Type C

## MULTI-PROTOCOL, HIGH-SPEED USB SOLUTION FOR NEXT GENERATION DESIGNS

USB 4 compatible with the TBT4 (Thunderbolt™ 4) interface combines power charging, PCIe® data transfer, DP video, and audio capability in one Type C connector. Ideal application in PCs, tablets, VR / AR headsets, gaming consoles, docking stations, SSDs, peripherals (Monitor/ Display, Projector...), etc.

- USB4 Gen 3 (40Gb/s) certified
- Power rating up to 240W
- High-speed transmission up to 40Gb/s
- Optimized contact design for superior signal integrity performance
- Reversible plug and cable orientation



### TARGET MARKETS



### FEATURES

- High-speed transmission up to 40Gb/s
- High power and fast charging
- Various mounting type (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 5A current rating for USB Power delivery and up to 240W
- Offer design flexibility
- Connect cable without worrying about the plug's orientation or the cable's direction
- Enhanced durability and reduce worn-out from cyclic operation
- Ensure high reliability while preventing damage from connector mishandling
- Support power delivery, data transfer, 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: 10000 cycles
- Insertion Force: 5~20N
- Extraction Force: 8~20N

### ELECTRICAL PERFORMANCE

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

### PACKAGING

- Tape & Reel

### SPECIFICATION

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

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