

# USB 4 Gen 3 Type C

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

USB 4 connectors compatible with Thunderbolt 4 interface combines power charging, tunneling USB, PCIe® data transfer, and DP video and audio capability in a single Type C connector. With a power rating up to 100W, these connectors have a high speed data transmission rate of up to 40Gb/s. The USB 4 connectors are ideal for applications in Storage, Notebook (Laptops), Tablet, Docking, Peripherals (Monitor/Display, Projector), Automotive Infotainment, Home Entertainment, etc.

- Power delivery up to 100W high-speed transmission up to 40Gb/s
- High-speed transmission up to 40Gb/s reversible plug and cable orientation
- Support 4K UHD 60Hz display
- Reversible plug and cable orientation
- All-in-one simplicity



### TARGET MARKETS



### FEATURES

- High-speed transmission up to 40Gb/s
- Excellent copper alloy material for terminals design
- Supports Display Port protocol
- Support power delivery, data transfer, video output in one connector
- Reversible plug and cable orientation for better user experience
- Up to 10,000 mating cycles
- Wiggle free

### BENEFITS

- High speed data communication
- Extended 5A current rating for USB power delivery and up to 100W
- Drive multiple 4K UHD at 60Hz
- All-in-one simplicity
- Tailored for emerging product designs
- Enhanced durability and reduced wear-out from cyclic operation
- Enhanced side wall of middle plate maximizes the contact area and stabilizes contact performance

## 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: 5~20 N
- Extraction Force: 8~20 N

### 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



Automotive Infotainment



Notebook  
Docking  
Tablet  
Peripherals (Monitor/Display, Projector...)  
Home Entertainment



Storage

## PART NUMBERS

Description	Part Numbers	TID Number
USB4 Gen3, Type C, Receptacle, R/A, Top mount, Dual Row SMT, Center Height 1.57 mm	12402056E512A	TID 5107
USB4 Gen3, Type C, Receptacle, R/A, Top mount, Dual Row SMT, Center Height 1.57mm	12402073E512A	TID 5793
USB4 Gen3, Type C, Receptacle, R/A, Mid mount, Dual Row SMT, Center Height 0.47mm	12402075E512A	TID 5106
USB4 Gen3, Type C, Receptacle, R/A, Top mount, Dual Row SMT, Center Height 1.58 mm	GSB4D313302Y1HR	TID 4731
USB4 GEN3, Type C, Top mount, Center Height 1.58mm, Dual Row SMT	GSB4D313302AY1HR	TID 5489
USB4 GEN3, Type C, Mid mount, Center Height -0.1mm, Dual Row SMT	12402072E512A	Coming Soon
USB4 GEN3, Type C, Top mount, Center Height 1.57mm, Dual Row SMT	12402076E512A	TID 5793
USB4 GEN3, Type C, Vertical, Dual Row SMT, IPX8	12402082E512A	Coming Soon

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