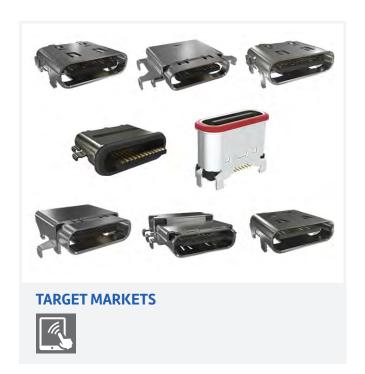


USB 4 Gen 3 Type C

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



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: $40m\Omega$ max.

• Insulation Resistance: 100m Ω 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