Amphenol



ExtremePort[™] QSFP DD 112G Connectors

112GB/S PAM-4 QSFP DD INTERCONNECT SYSTEM

Amphenol's ExtremePort[™] QSFP DD 112G interconnect system is comprised of a 76 position, 0.80mm pitch connector built for use in high-speed serial applications. Each port supports up to 800Gb/s in aggregate over an 8 x 112Gb/s electrical interface. The cage and connector design provides backward compatibility to QSFP56 modules, which can be inserted into a QSFP DD port and connected to 4 of the 8 electrical channels. It is one of the industry's leading multi-lane pluggable form factors used across Ethernet, Fibre Channel and InfiniBand.

- Operating at 112Gb/s PAM4 for up to 800Gb/s aggregated bandwidth solution
- QSFP series double density product with 8 channels per port
- Backward compatibility with QSFP



FEATURES

- Electrical interface employs 8 lanes that support 112Gb/s PAM4, providing solutions up to 800Gb/s aggregate bandwidth
- Enables up to 28.8Tb/s aggregate bandwidth in a single switch slot
- Backwards mating compatibility with QSFP56
- Supports passive & active copper and optical solutions products
- Multiple connector configurations
- MSA supported standard interface
- Multiple heat sink options
- RoHS compliant

BENEFITS

- Enables 400G and 800G aggregate bandwidth per port
- Single switch slot with 36 ports QSFP DD
- Allows for use of either QSFP or QSFP DD products in any port
- Enables use of DAC, short and long range optical
- Single (1x1), ganged (1xN) and stacked (2xN) connector and cage configurations
- Meets or exceeds MSA defined product specifications
- Allows user to choose from multiple options to maximize heat dissipation
- Meets environmental, health and safety standards

TECHNICAL INFORMATION

MATERIAL

- Connector Housing: Black color, glass reinforced, lead free solder reflow process compatible thermo plastic
- Contacts Base Material: Copper alloy
- Plating Solder Tails: Matte tin over nickel
- Plating Mating Area: Gold
- Resonance Dampening Feature: Stainless steel
- Cage: Stainless steel

ELECTRICAL PERFORMANCE

- Operating Voltage: 30VDC per contact
- Operating Current: 0.5 A per signal contact; 1.5 A per power contact
- Differential Impedance: 100 ± 10

MECHANICAL PERFORMANCE

- Durability: 100 mating cycles
- Mating Force: 90N max.
- Unmating Force: 50N max.
- PCB Thickness for 1xN Cage:
- 1.44mm min. for single mounted
- 2.35mm min. for belly to belly mounted

ENVIRONMENTAL

- Operating and (Storage) Temperature: -40° C to +85° C
- RoHS & Halogen-free

SPECIFICATIONS

- Cage Mounting: Through bezel
- EMI Options: Spring fingers
- Configurations:
 - 1xN (N = 1, 2, 3, 4, 5)

Datacom

= 2xN (N = 1, 2)

PACKAGING

Tape and Reel (connector) or Tray (cage)

TARGET MARKETS/APPLICATIONS



Switch Router and Server Wireless Base Station Telecom

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Datacom/Networking Equipment Hubs Data CenterSwitching Applications Storage System Supercomputer High Density Ethernet Switching/Routing Products



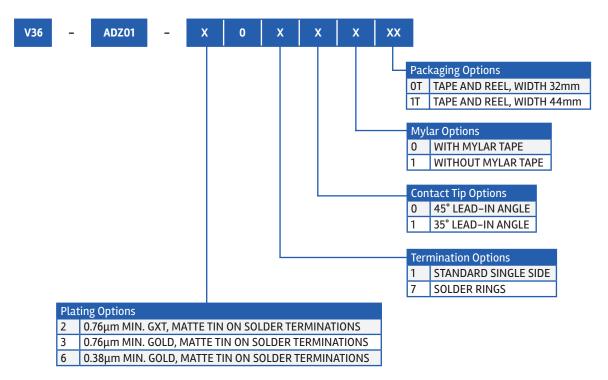
Test Equipment Measuring Equipment

PART NUMBERS

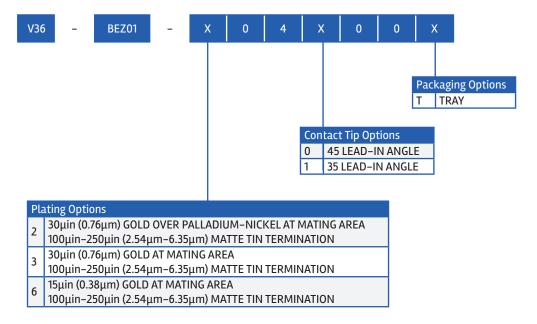
Description	Part Numbers
112G QSFP-DD 1x1 SMT connector	V36-ADZ01-X0X1XXT (X represents various options)
112G QSFP-DD 2X1 SMT connector	V36-BEZ01-XXX1XXT (X represents various options)
112G QSFP-DD 2X1 stacked cage assembly with heat sink and light pipe options	V36-BAZ17-XX5XXXX (X represents various option)

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

PART NUMBER SELECTOR - 112G QSFP-DD 1X1 SMT CONNECTOR

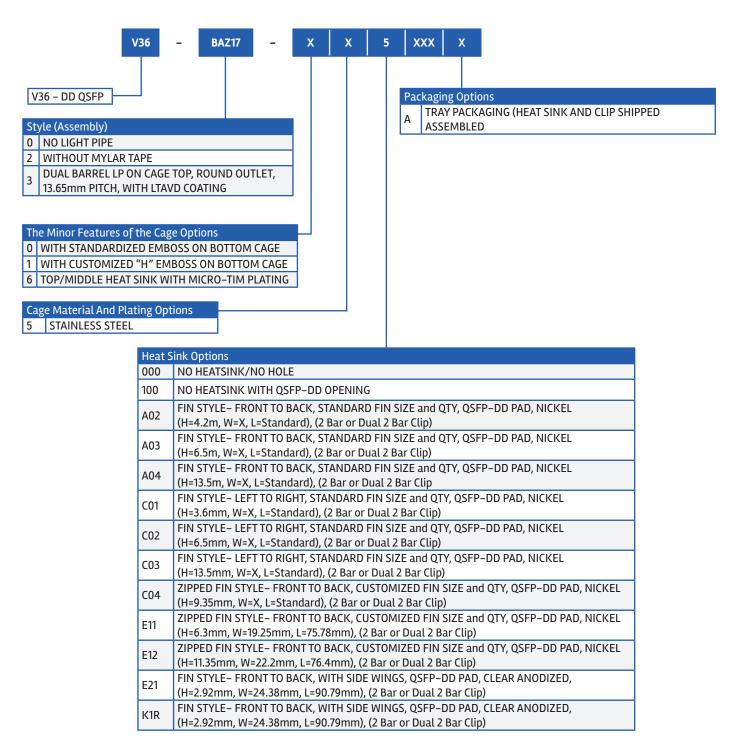


PART NUMBER SELECTOR – 12G QSFP–DD 2X1 SMT CONNECTOR



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PART NUMBER SELECTOR – 112G QSFP–DD 2X1 STACKED CAGE ASSEMBLY



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