

QSFP DD Connectors

Amphenol ICC's QSFP DD interconnect system is comprised of a 76 position, 0.8mm pitch connector built for use in high speed serial applications. Each port supports up to 400Gb/s in aggregate over an 8 x 50Gb/s electrical interface. The cage and connector design provides backwards compatibility to QSFP28 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 56Gb/s PAM-4 for up to 400Gb/s aggregated bandwidth solution
- QSFP series double density product with 8 channels per port
- Backwards mating compatible with QSFP
- Multiple connector and heat sink configurations



TARGET MARKETS



FEATURES

- Electrical interface employs 8 lanes that support 25Gb/s NRZ modulation or 56Gb/s PAM4, providing solutions up to 400Gb/s aggregate bandwidth
- Enables up to 14.4Tb/s aggregate bandwidth in a single switch slot
- Backwards mating compatible with QSFP
- Supports passive & active copper and optical solutions products
- Multiple connector configurations
- MSA supported standard interface
- Multiple heat sink options
- RoHS compliant

BENEFITS

- Enables 200G and 400G aggregate bandwidth per port
- A single switch slot can have 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
- Amphenol offering meets or exceeds MSA defined product specifications
- Allows user to choose from multiple options to maximize heat dissipation
- Environmentally friendly

TECHNICAL INFORMATION

MATERIAL

- Housing: Black color, glass reinforced, lead free solder reflow process compatible thermo plastic
- Contacts base material: High performance copper alloy
- Plating solder tails: Matte tin
- Plating mating area: Gold
- Resonance dampening feature: Conductive polymer

MECHANICAL PERFORMANCE

- Durability: 100 mating cycles
- Mating Force: 90N max.
- PCB thickness (Cage): 1.44mm min. for singlemounted (1xN)
- Belly to belly (Cage): 2.35mm min. for 1xN
- Unmating force (Cage): 50N max.
- Insertion force to PCB (Cage):
 - 780N for 1x1 port
 - 1000N for 1x2 Ports
 - 1700N for 1x4 Ports
 - 2400N for 1x6 Ports
 - 3000N for 2x1 Ports

ELECTRICAL PERFORMANCE

- Operating Voltage: 30VDC per contact
- Operating Current: 0.5A per signal contact
- Differential Impedance: 100Ω +/- 10Ω

ENVIRONMENTAL

- Operating and storage temperature: -40° to +85°C
- RoHS & halogen free

TOOLING INFORMATION

- Cage mounting: Thru bezel
- EMI options: Spring fingers
- Configurations:
 - 1XN (N=1,2,3,4,5,6)
 - 2XN (N=1,2)

TARGET MARKETS/APPLICATIONS



Cellular infrastructure
Network Interface Cards
SAN-Storage Attached Networks



Hubs
Switch
Servers



Test and Measurement Equipment

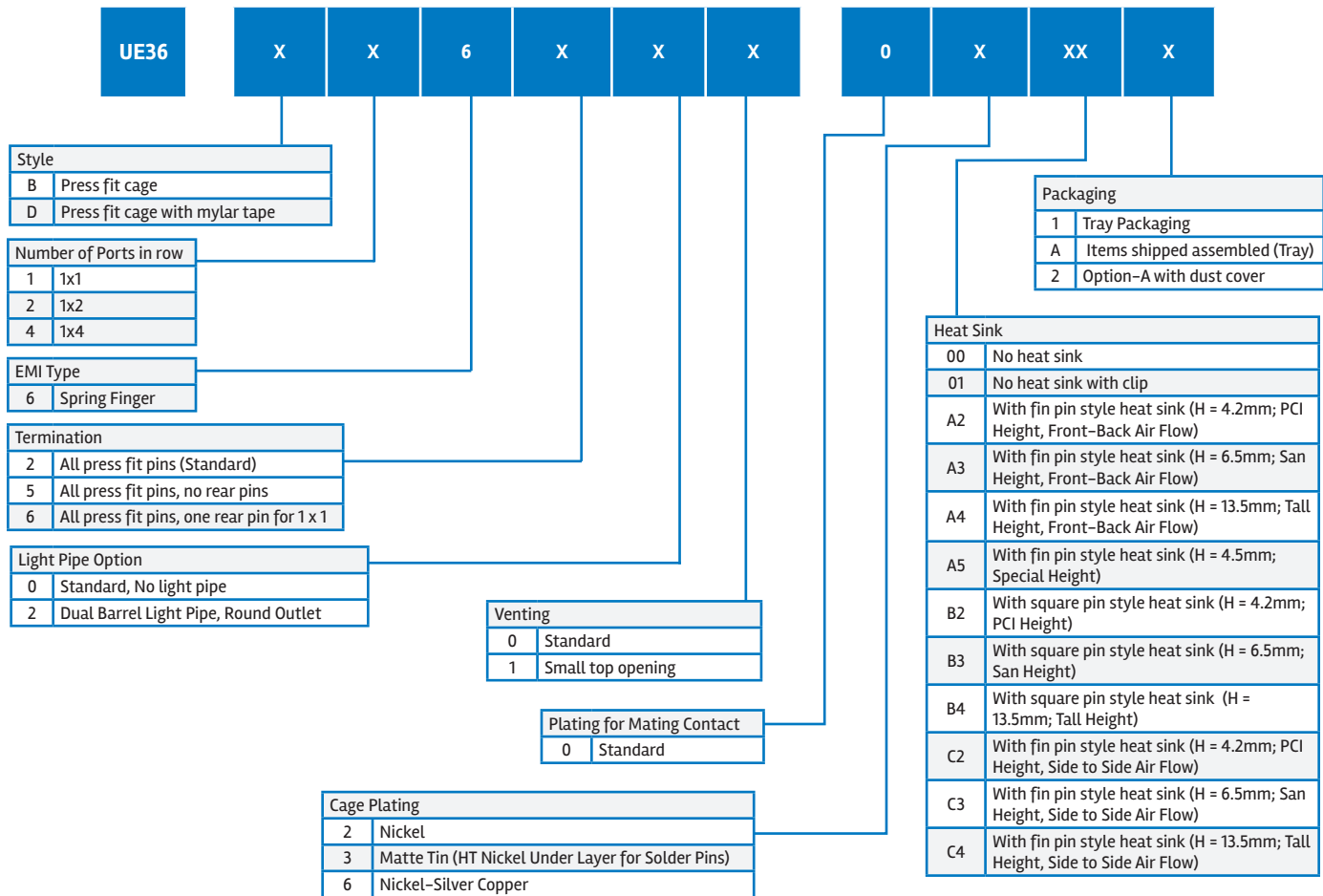
PART NUMBER SELECTOR

QSFP DD – Connector

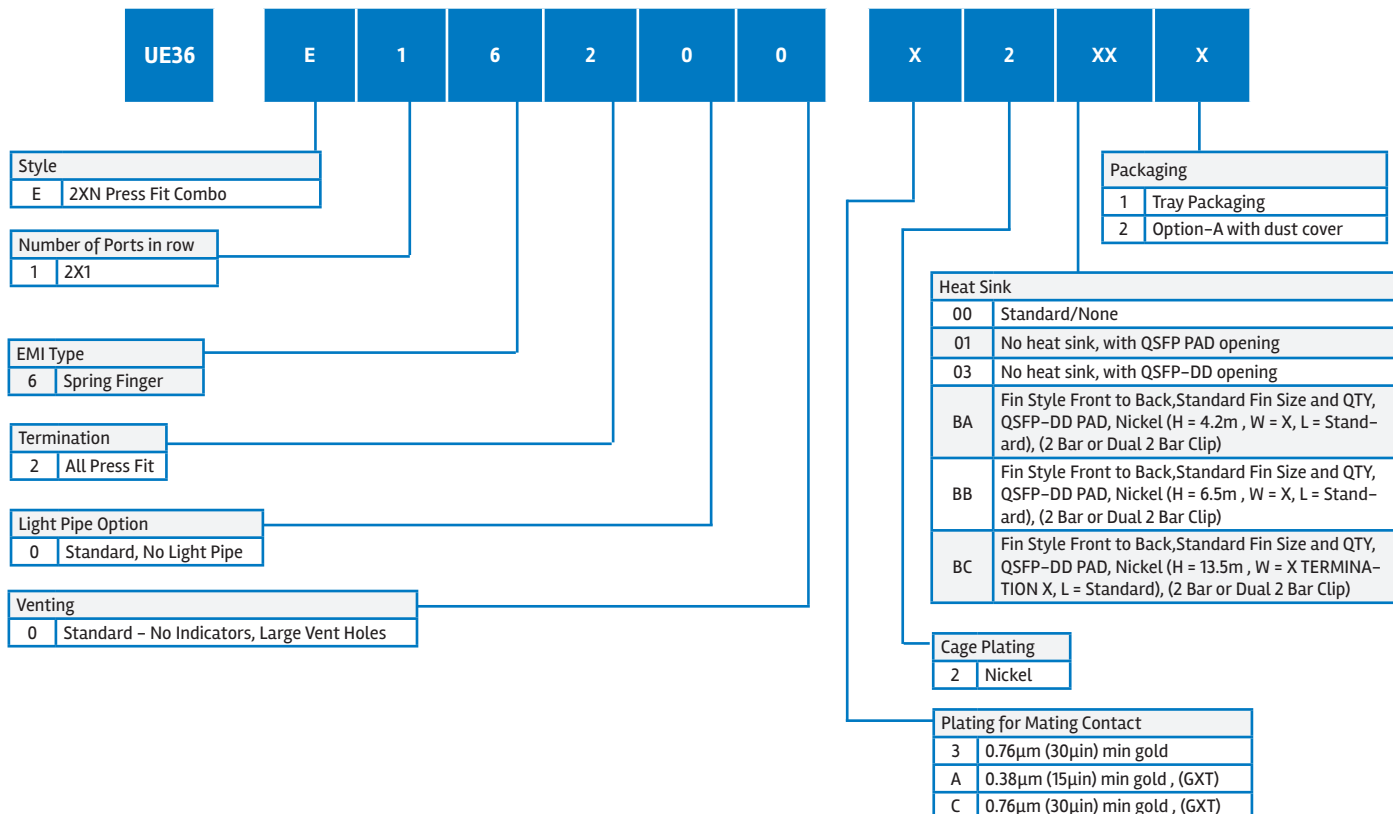
UE36		A 1 0 X 0					X 0 0 0 T				
Style		Number of Ports in row					Heat Sink Height				
A 1 X N SMT connector		1 NX1					0 Standard/None				
EMI Type		Termination					Heat Sink				
0 Standard		1 SMT					0 Standard/None				
		7 SMT with solder rings					Cage Plating				
							0 Standard				
Light Pipe Option		Plating for Mating Contact					Packaging				
0 Standard, No light pipe		2 0.76μm (30μin) min gold , (GXT)					T Tape and Reel				
		3 0.76μm (30μin) min gold									
		6 0.38μm (15μin) min gold									

► QSFP DD Connectors

QSFP DD – 1xN Cages



QSFP DD – Stacked



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

[UE36A10102000T](#) [UE36A10702000T](#) [UE36-B16200-06001](#) [UE36-B26200-06A3A](#) [UE36-B26200-06A2A](#) [UE36-B26200-06A4A](#) [UE36-B26200-06001](#) [UE36-B46200-06001](#) [UE36-B46200-06A3A](#) [UE36-B46200-06A2A](#) [UE36-B46200-06A4A](#) [UE36-E16200-32BC1](#) [UE36-E16200-32BA1](#) [UE36-E16200-32BB1](#) [UE36-E16200-32001](#) [UE36-B16200-06A3A](#) [UE36-B16200-06A4A](#) [UE36-B16200-06A2A](#) [UE36B2620006001](#) [UE36B2620006A2A](#) [UE36B4620006A4A](#) [UE36E1620032001](#) [UE36E1620032BC1](#) [UE36B2620006A3A](#) [UE36B2620006A4A](#) [UE36B4620006001](#) [UE36B4620006A3A](#) [UE36B1620006A3A](#) [UE36E1620032BB1](#) [UE36B4620006A2A](#) [UE36E1620032BA1](#) [UE36B1620006A4A](#)