

# ExpressPort® QSFP+

Amphenol ICC's ExpressPort® QSFP+ interconnect system is comprised of a 38 position 0.8mm pitch SMT connector, and a press-fit cage. With four channels of data in one pluggable, the system interface is capable of transferring data up to 16Gb/s per Channel, and replacing up to 4 standard SFP+ receptacles. These features result in greater port density and overall cost savings over traditional SFP+ products. Supporting standards include, Gigabit Ethernet, InfiniBand, and SONET/SDH with different data rate options. ExpressPort® QSFP+ includes cages in single, ganged and stacked configurations with multiple heat sink options supporting various thermal requirements and port status with light pipes options.



## TARGET MARKETS



## TECHNICAL INFORMATION

### MATERIAL

- Housing: Black color, Glass reinforced, Lead Free Solder Reflow Process Compatible Thermo Plastic
- Contacts Base Material: Phosphor Bronze
- Plating Solder Tails: Matte tin
- Plating Mating Area: Gold
- Resonance Dampening Feature: Conductive Polymer

### MECHANICAL PERFORMANCE

- Durability: 250 mating cycles
- Mating Force: 40 N max.
- Contact Normal Force: 50 grams min.
- PCB Thickness Single Side (Cage): 1.44 mm (0.057in.) min.
- PCB Thickness Belly to Belly (Cage): 2.85 mm (0.093in.) min.
- Unmating Force (Cage): 30 N max.
- Insertion Force to PCB (Cage):
  - 780 N for 1 port
  - 1000 N for 2 Ports
  - 1700 N for 4 Ports
  - 2400 N for 6 Ports

### ELECTRICAL PERFORMANCE

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

### ENVIRONMENTAL

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

### TOOLING INFORMATION

- Cage Mounting: Behind Bezel, Thru Bezel, Hybrid
- EMI Options: Spring Fingers, Gasket
- Configurations:
  - 1XN (N=1,2,3,4,6)
  - 2XN (N=1,2,3)

### TARGET MARKETS/APPLICATIONS



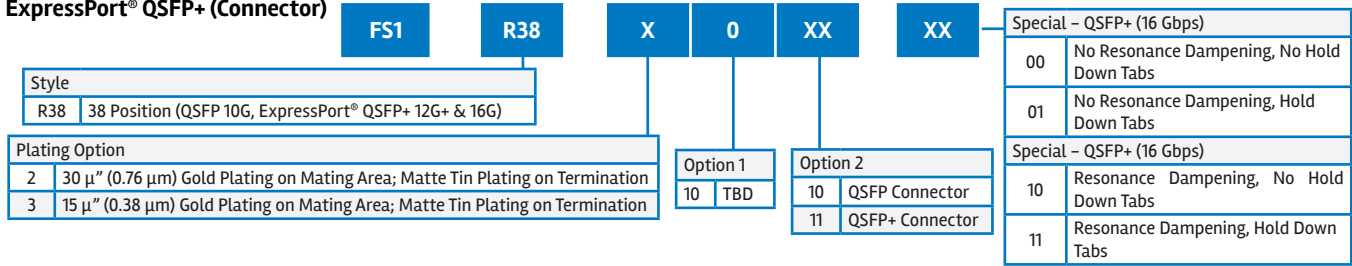
Network Interface Cards  
SAN-Storage Attached Networks



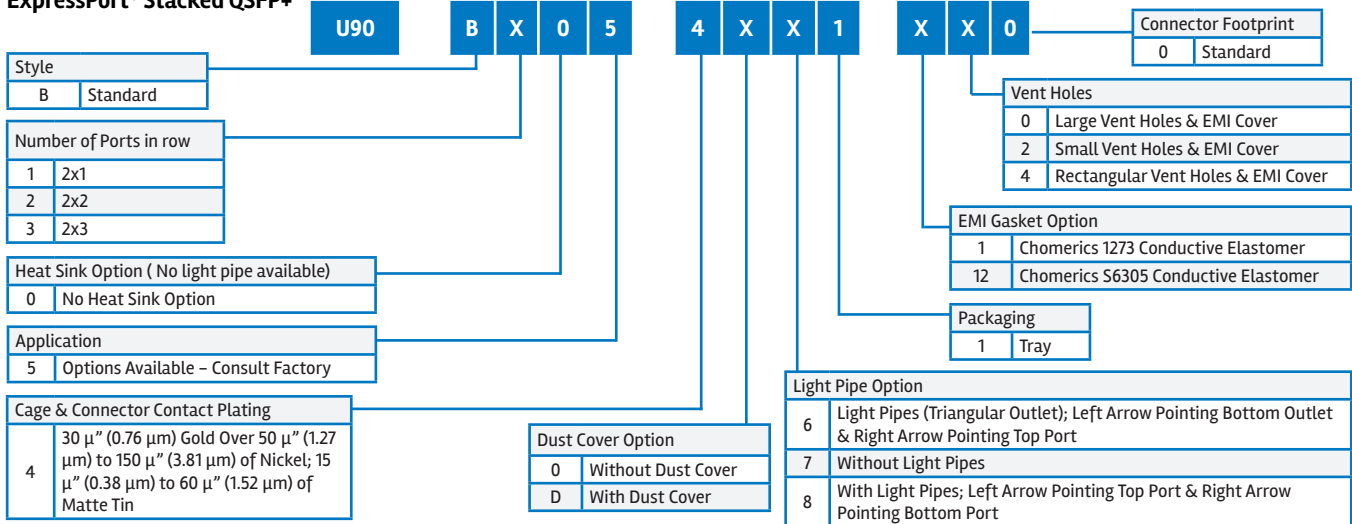
Hubs  
HBA  
Router  
Switch  
Servers

# ExpressPort® QSFP+

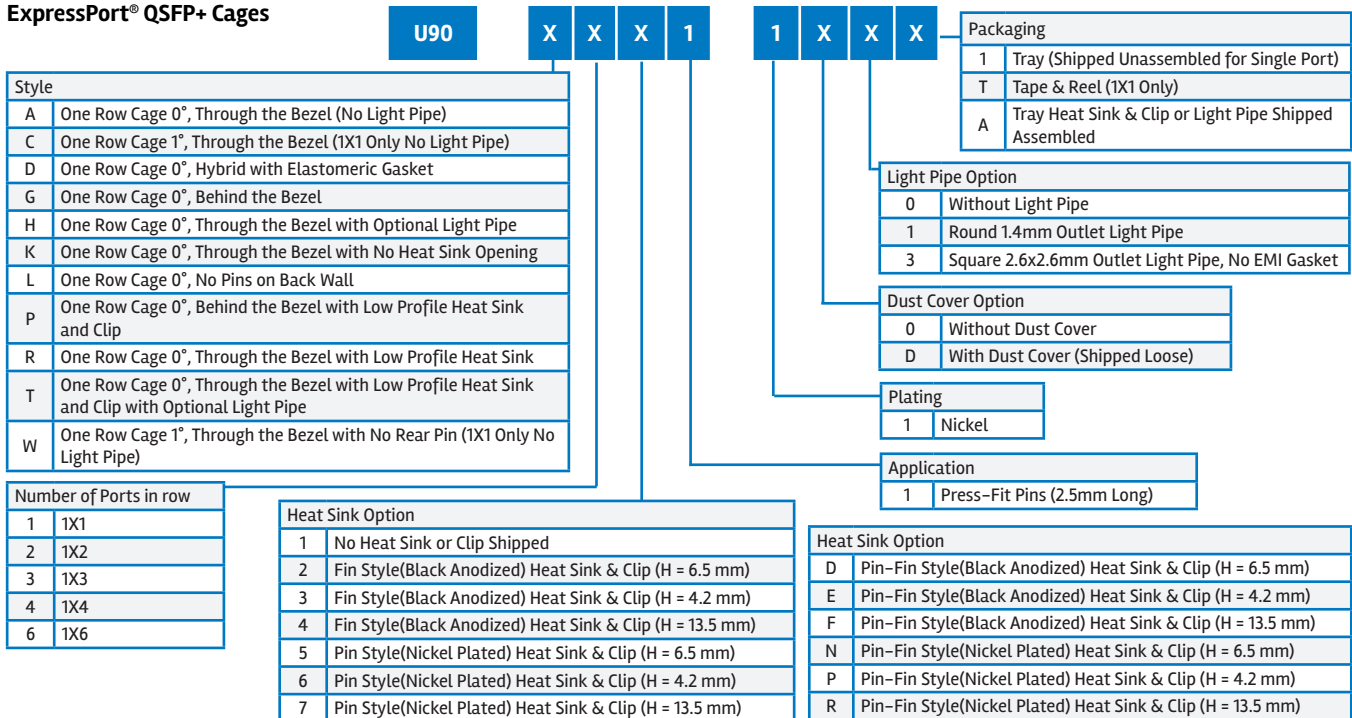
## ExpressPort® QSFP+ (Connector)



## ExpressPort® Stacked QSFP+



## ExpressPort® QSFP+ Cages



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