

ExtremePort™ SFP+

Amphenol ICC's ExtremePort™ SFP+ interconnect system is comprised of a 20-position hot swappable I/O connector enclosed in a metal cage mounted to a host PCB. It supports up to 56Gb/s PAM4 aggregate bandwidth with a backward compatibility for next generation Ethernet and Fibre Channel applications. The ExtremePort SFP+ connector shares the same unique mating interface and EMI cage dimensions as the SFP+ form factor. The cages are built for use with several board thicknesses and assembly processes to accommodate server and switch applications for cost optimized solutions. The connector accepts multiple transceivers per INF-8081 and combines, transmits, and receives functions in a low cost, compact and flexible format. Stacked versions (2XN) consist of a 2-row cage with integrated connectors. We offer a wide variety of cage configurations, which have a two-piece construction with enhanced transceiver mating tabs available in press-fit or solder tail versions.

- Backwards compatible with SFP28
- Meets CEI-56GPAM4 VSR requirements

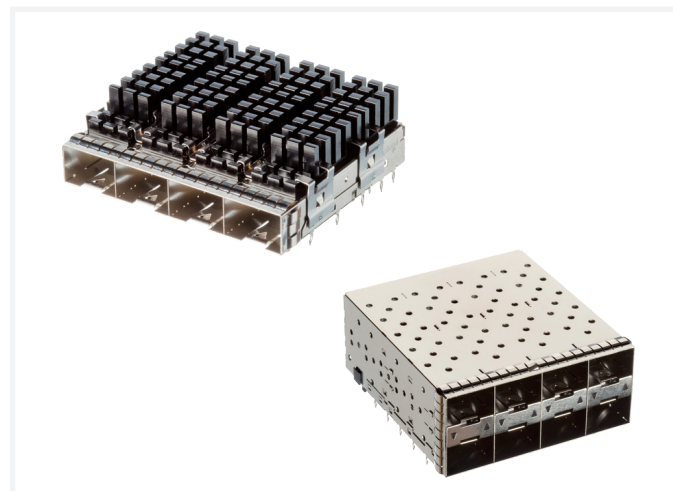
TECHNICAL INFORMATION

MATERIAL

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

MECHANICAL PERFORMANCE

- Durability: 250 mating cycles
- Contact Normal Force: 0.3 N min./PIN
- Mating Force: 40 N max.
- Unmating Force: 12.50 N max.
- PCB Thickness Single Side (Cage): 1.57 mm (0.062 in.) min.
- PCB Thickness Belly to Belly (Cage): 3.00 mm (0.118 in.) min.



TARGET MARKETS



- Electrical interface employs 1 lane that operates up to 56Gb/s PAM4 modulation, providing solutions up to 56Gb/s aggregate bandwidth

- Insertion Force to PCB (Cage):

- 1000 N for 2 port
- 2100 N for 4 port
- 3000 N for 6 port

ELECTRICAL PERFORMANCE

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

ENVIRONMENTAL

- Operating and (Storage) Temperature: -55 C° to 85 C°
- RoHS & Halogen-Free

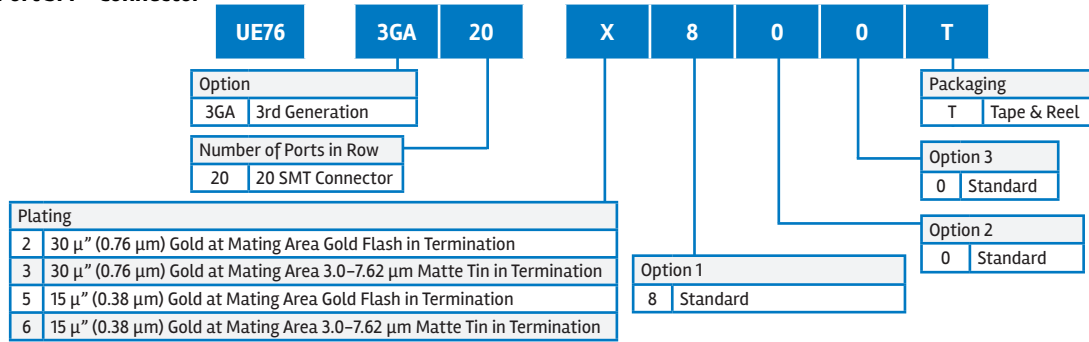
TOOLING INFORMATION

- Configurations:
 - 1 X N (N=1,2,3,4,5,6,8)
 - 2 X N (N=1,2,4,5,6,8)

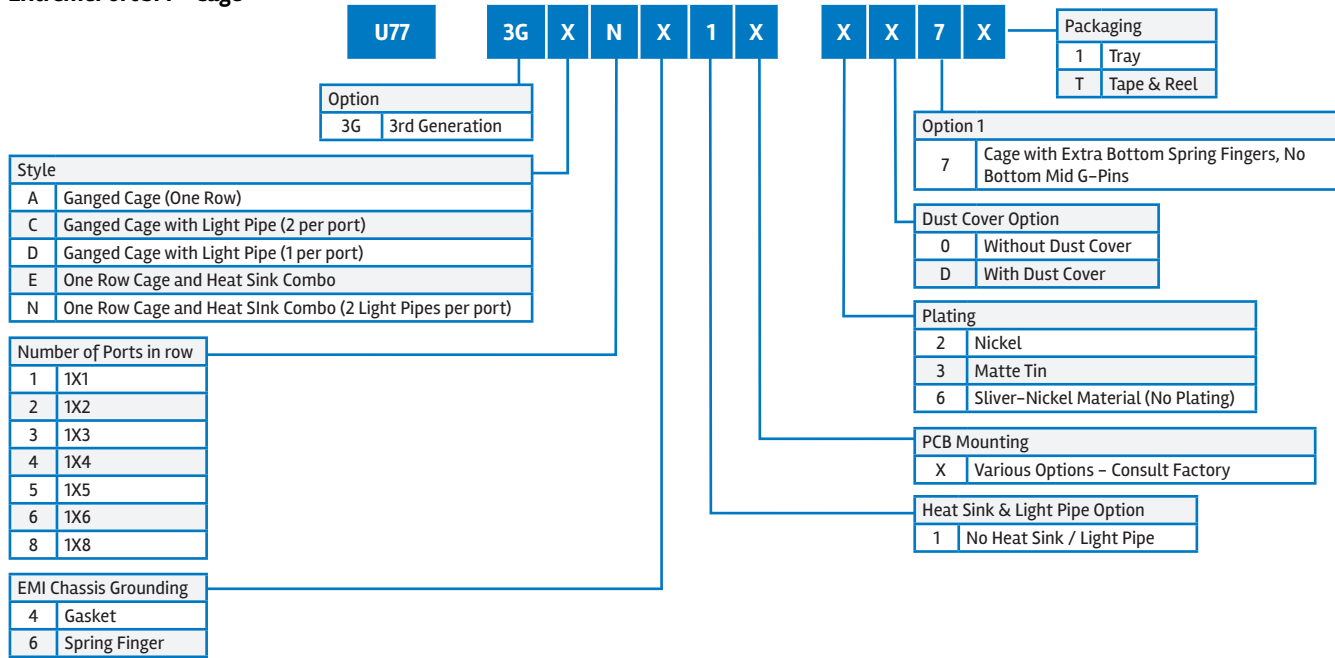
PACKAGING

- Connector: Tape and Reel
- Cage: Tray, Tape and Reel Available for Single Port cage

ExtremePort SFP+ Connector



ExtremePort SFP+ Cage



ExtremePort Stacked SFP+

