

DSFP

56G PAM4 SMT Connector

DSFP offers dual high-speed lanes operating at 28Gb/s NRZ and 56Gb/s PAM-4 for a 50Gb and 100Gb aggregated bandwidth solution. It has additional 2 pins compared to the SFP/SFP+ family, which enables it to have a second high speed channel with an identical connector form factor. Indeed, the DSFP shares the same unique mating interface and EMI cage dimensions as the whole range of SFP/SFP+ cages.

The connector is backward compatible with SFP/SFP+ modules and transceivers based on 20-contacts edge card. A wide variety of cage configurations, with a two-piece construction and enhanced transceiver mating tabs are offered in press-fit or solder tail version.

- Operating at 28Gb/s NRZ or 56Gb/s PAM4 per channel for up to 100Gb/s aggregated bandwidth solution.
- 22 contacts, 0.80mm pitch, 2 rows per port supports dual high-speed lanes
- Same form factor as SFP/SFP+ series cages.
- Backward compatible with SFP/SFP+ modules/ transceivers
- Designed to support a potential upgrade to 112Gb/s



TARGET MARKETS



FEATURES

- Operating at 28Gb/s NRZ or 56Gb/s PAM4 per channel
- Backward compatible with SFP/SFP+ modules/ transceivers
- Same cage form factor as SFP/SFP+ series
- Supports maximum power of 3.5W per port
- MSA supported standard interface
- Designed with considerations to support next generation operating speeds (112Gb/s PAM-4)
- RoHS compliant

BENEFITS

- Covers 100Gb/s aggregated bandwidth applications
- The connector can accept and is compatible with INF-8074i modules based on 20-contacts edge card.
- Multiple cage configurations and diverse heat sink options
- Supports passive copper as well as short range optics
- Amphenol offering meets or exceeds MSA defined product specifications
- Potential to upgrade to 112Gb/s PAM-4
- Environmentally friendly

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 or Gold flash options
- Plating Mating Area: Gold
- Resonance Dampening Feature: Conductive Polymer

ELECTRICAL PERFORMANCE

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

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.

ENVIRONMENTAL

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

TOOLING INFORMATION

- Single and ganged cages:
 - 1 X N (N=1,2,3,4,5,6,8)

PACKAGING

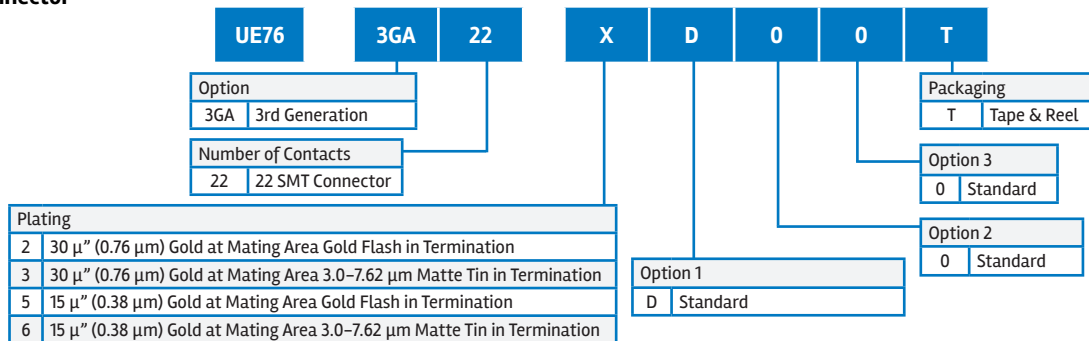
- Connector: Tape and Reel
- Cage: Tray, Tape and Reel Available for Single Port cage

APPROVALS & CERTIFICATION

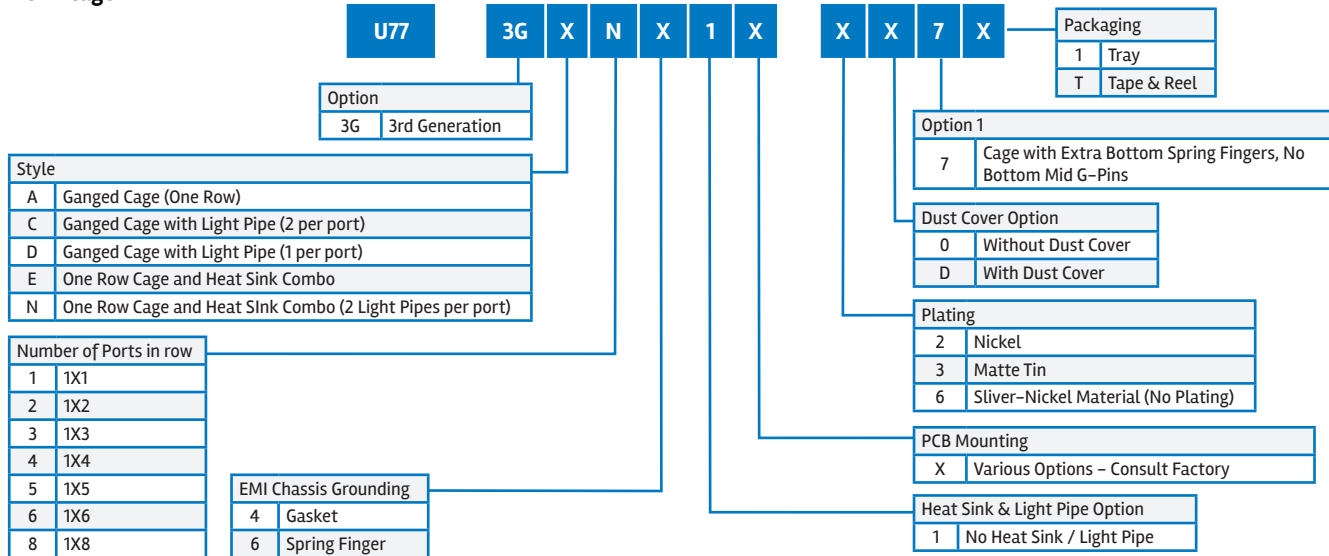
- UL E64911

PART NUMBER SELECTOR

DSFP Connector



DSFP Cage



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