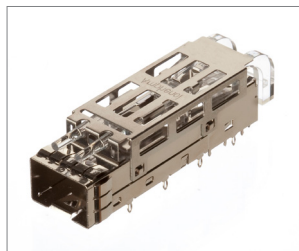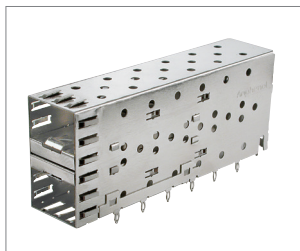# ExpressPort® SFP+

Product Description

The ExpressPort® SFP+ interconnect system provides data transfer speeds of up to 16 Gbps. The design of the ExpressPort® SFP+ connector minimizes impedance discontinuities and reflections at high data rates and provides a 10 to 20 dB improvement in Near-End Crosstalk. The ExpressPort® SFP+ unique cage construction features EMI shielding available in the form of metal spring fingers or elastomeric gaskets. Additional features available include light pipes, heat sinks and many other custom features.

Applications	
Storage	Switches
Network Interface	Hubs and Servers
Test and Measurement Equipment	Cellular Infrastructure

SFF Supported Standards	
Connector SFF-8071	
Cage SFF-8432	
Ganged SFF-8433	

Product Specifications - ExpressPort® SFP+			
CONNECTOR		**CAGE**	
Materials Specifications			
Housing	Black or nature color, Glass-reinforced, lead-free solder reflow process compatible thermoplastic	**PCB Thickness**	
Contacts Base Material	Phosphor Bronze	**Single Side Mount**	1.57 mm (0.062 in.)
Contact Normal Force	100 grams	**"Belly to Belly"**	3.00 mm (0.118 in.)
Plating Solder Tails	Matte tin or gold flash options		
Plating Mating Area	Gold		
Resonance Dampening Feature	Conductive Polymer		
Operating & Storage Temperature	-55° to +85°C		
Electrical Specifications			
Operating Voltage	30 V DC per contact		
Operating Current	0.5 A per contact		
Differential Impedance	100 Ω +/-10 Ω		
Mechanical Specifications			
Mating Force	50 N max.	**Unmating Force**	11.50 N max.
Durability	250 mating cycles	**Insertion Force to PCB**	1000 N for 2 port 2100 N for 4 port 3000 N for 6 port
Card Entry Slot	1.0mm-thick integrated circuit cards		
Options			
Packaging	Tape and Reel	**Packaging**	Tray, Tape and Reel Available for Single Port
EMI Options, Heat Sink and Clip	Available		
Configurations	1xN (N = 1,2,3,4,5,6,8) 2xN (N = 1,2,3,4,5,6,8)		
Environmental Specifications			
RoHS	Yes		
Halogen Free	Yes		
Flammability Rating	UL 94V-0		

Ordering Information

ExpressPort® SFP+ Connector

UE76 A 20 X 0 X 0 T

UE76	**SERIES DESIGNATION**	
A	**STYLE**	A - R/A Single Surface Mount Connector
20	**NUMBER OF POSITIONS**	20 - 20 Positions
X	**CONTACT PLATING**	2 - 30 µ" (0.76 µm) Gold Plating on Mating Area; Gold Flash on Termination
		3 - 30 µ" (0.76 µm) Gold Plating on Mating Area; Matte Tin on Termination
		5 - 15 µ" (0.38 µm) Gold Plating on Mating Area; Gold Flash on Termination
		6 - 15 µ" (0.38 µm) Gold Plating on Mating Area; Matte Tin on Termination

PACKAGING — T - Tape & Reel (500/Reel) → **T**

OPTION 3 — 0 - Standard → **0**

OPTION 2 — 0 - Standard; 1 - Resonance Cancellation Features → **X**

OPTION 1 — 0 - Standard → **0**

ExpressPort® SFP+ Cage

U77 X X X X X X X X

U77	**SERIES DESIGNATION**	
X	**STYLE**	A - 1 Row
		C - 1 Row Cage; Light Pipe Combo (Top)
		E - 1 Row Cage; Heat Sink Combo (Fin)
		F - 1 Row Cage; 1° Angle (1X1 Only)
X	**NUMBER OF PORTS IN ROW**	1 - Single in Row
		2 - Inline 1X2
		3 - Inline 1X3
		4 - Inline 1X4
		5 - Inline 1X5
		6 - Inline 1X6
		8 - Inline 1X8
X	**CHASSIS GROUNDING**	3 - Metal Spring Fingers (No Bottom Latch Cover)
		4 - Elastomeric Gasket
		6 - Metal Spring Fingers (1 Piece Design Bottom Latch Cover)
		7 - Metal Spring Fingers with Insulating Tape
X	**HEAT SINK / LIGHT PIPE**	1 - No Heat Sink / Light Pipe
		2 - Heat Sink
		3 - Light Pipe (1XN Cage Only)
X	**PCB MOUNTING**	X - Various Options Available - Consult Factory

PACKAGING — 1 - Tray (ACC Re-Packed); T - Tape & Reel (1X1 Only) → **X**

OPTION 1 — 0 - Standard; 7 - Cage with Extra Bottom Spring Fingers, No Bottom Mid G-Pins; 8 - Cage with Half-Moon Mid G-Pins; 9 - Cage with Extra Bottom Spring Fingers & Half Moon Mid G-Pins → **X**

DUST COVER — 0 - Without Dust Cover; D - With Dust Cover (Shipped Loose) → **X**

PLATING — 1 - Bright Tin (for Wave Solder); 2 - Nickel; 3 - Matte Tin (for Reflow 245°) → **X**

ExpressPort® SFP+ 2XN (Cage/Connector)

UE86 X X X X X X X X X 1

UE86	**SERIES DESIGNATION**	
X	**STYLE**	B - 2XN, No Light Pipe
		D - 2XN, Small Light Pipe Openings
		K - 2XN, Large Light Pipe Openings
		L - 2XN, Low Profile Combo (No Light Pipe)
		S - 2XN, Thermally Enhanced
X	**NUMBER OF PORTS IN ROW**	1 - 2X1
		2 - 2X2
		3 - 2X3
		4 - 2X4
		5 - 2X5
		6 - 2X6
		8 - 2X8
X	**CHASSIS GROUNDING**	4 - Elastomeric Gasket
		5 - Elastomeric Gasket, Bottom Insulating Tape
		6 - Metal Spring Fingers
		7 - EMI Fingers, Bottom Insulating Tape
X	**MOUNTING TYPE: CONNECTOR**	2 - Standard Press-Fit Pins (12Gbps)
		5 - Small Press-Fit Pins for High Speed Termination (16Gbps)
		A - Press-Fit Pins (10Gbps)
X	**MOUNTING TYPE: CAGE**	7 - Standard 2XN
		A - Narrow Flange
		C - Enhanced EMI

PACKAGING — 1 - Tray → **1**

PLATING OPTION: CAGE — 1 - Bright Tin; 2 - Nickel; 3 - Matte Tin → **X**

PLATING OPTION: CONNECTOR — X - Various Options Available - Consult Factory → **X**

DUST COVER — 0 - Without Dust Cover; D - With Dust Cover (Shipped Loose) → **X**

LIGHT PIPE OPTION — 0 - No Light Pipe; 1 - 4 Light Pipes/2X1; 2 - 2 Inner Light Pipes/2X1; 3 - 2 Outer Light Pipes/2X1 → **X**

Amphenol®
High Speed Interconnects

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For more information consult factory or visit amphenol-highspeed.com

RoHS COMPLIANT