

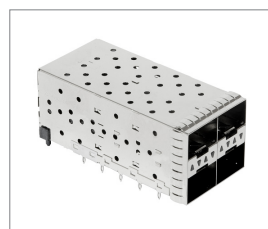
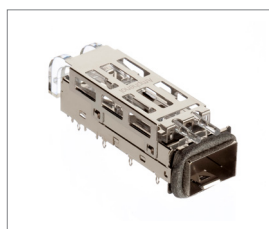
UltraPort™ SFP+

Product Description

The UltraPort™ 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 28Gbps applications with a backward compatibility for next generation Ethernet and Fibre Channel applications. UltraPort™ 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.

Applications		Supported Standards
Servers/Storage	Cellular infrastructure	Connector SFF-8071 (16Gbps), SFF-8402 (28Gbps), INF-8081
Medical diagnostic equipment	Telecommunications hardware	Cage SFF-8432
Test and measurement equipment		Ganged SFF -8433

Product Specifications - UltraPort® SFP+			
CONNECTOR		CAGE	
Materials Specifications			
Housing	Black color, Glass reinforced, Lead Free Solder Reflow Process Compatible Thermo Plastic	PCB Thickness	
Contacts Base Material	Phosphor Bronze	Single Side Mount	1.57 mm (0.062 in.)
Contact Normal Force	40 grams Minimum.	“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 C° 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
Options			
Packaging	Tape and Reel	Packaging	Tray, Tape and Reel Available for Single Port
Configurations	1 X N (N=1,2,3,4,5,6) 2 X N (N=1,2,4,5,6,8)		
Environmental Specifications			
RoHS	Yes		
Halogen Free	Yes		
Flammability Rating	UL 94V-0		



Ordering Information

UltraPort™ SFP+ Connector

UE76	3GA	20	X	6	0	0	T
UE76	SERIES DESIGNATION						PACKAGING
3G	OPTION						T - Tape & Reel
3GA	3rd Generation						OPTION 3
20	NUMBER OF PORTS IN ROW						0 - Standard
20	20 - 20 SMT Connector						OPTION 2
X	PLATING						0 - Standard
2 - 30 μ" (0.76 μm) Gold at Mating Area Gold Flash in Termination							OPTION 1
3 - 30 μ" (0.76 μm) Gold at Mating Area 3.0-7.62 μm Matte Tin in Termination							6 - Standard
5 - 15 μ" (0.38 μm) Gold at Mating Area Gold Flash in Termination							8 - 1XN belly to belly with 2XN
6 - 15 μ" (0.38 μm) Gold at Mating Area 3.0-7.62 μm Matte Tin in Termination							

UltraPort™ SFP+ Cage

U77	3G	X	N	X	1	X	X	X	7	X
U77	SERIES DESIGNATION									PACKAGING
3G	OPTION									1 - Tray
3G	3rd Generation									T - Tape & Reel
X	STYLE									OPTION 1
A - Ganged Cage (One Row)										7 - Cage with Extra Bottom Spring Fingers, No Bottom Mid G-Pins
C - Ganged Cage with Light Pipe (2 per port)										DUST COVER OPTION
D - Ganged Cage with Light Pipe (1 per port)										0 - Without Dust Cover
E - One Row Cage and Heat Sink Combo										D - With Dust Covers
N - One Row Cage and Heat Sink Combo (2 Light Pipes per port)										PLATING OPTION FOR CAGE
N	NUMBER OF PORTS IN ROW									2 - Nickel
1 - 1X1										3 - Matte Tin
2 - 1X2										6 - Silver-Nickel Material (No Plating)
3 - 1X3										PCB MOUNTING OPTION
4 - 1X4										X - Various Options - Consult Factory
5 - 1X5										HEAT SINK & LIGHT PIPE OPTION
6 - 1X6										1 - No Heat Sink/Light Pipe
8 - 1X8										
X	EMI CHASSIS GROUNDING									
4 - Gasket										
6 - Spring Finger										

UltraPort™ Stacked SFP+

UE86	3X	X	X	2	0	X	X	X	6	1
UE86	SERIES DESIGNATION									PACKAGING
3X	OPTION									1 - Tray
3G	3rd Generation									PLATING OPTION: CAGE
3T	Thermoenhancement									6 - Pre-Plating
X	NUMBER OF PORTS IN ROW									PLATING OPTION: CONNECTOR
1 - 2X1										X - Various Options Available - Consult Factory
2 - 2X2										DUST COVER OPTION
4 - 2X4										0 - Without Dust Cover
5 - 2X5										D - With Dust Covers
6 - 2X6										LIGHT PIPE OPTION
8 - 2X8										X - Various Options Available - Consult Factory
X	CHASSIS EMI OPTION									
4 - Gasket										
6 - Spring Fingers										
2	MOUNTING TYPE : CONNECTOR									
2	Standard Press-Fit Pins									
0	MOUNTING TYPE : CAGE									
0	Standard Cage									

Amphenol®
High Speed Interconnects

Order Information:

P: 416.291.4401 | F: 416.292.0647 | E: cages@amphenol-highspeed.com

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

Product Applications; List represents common uses for the product but is not limited to these uses.

All specifications are subject to change without notice.

© 2015 Amphenol High Speed Interconnects. All rights reserved.

TechBrochure_UltraPortSFP+_Rev.1.17

