



**THE DATASHEET OF
U77A16182001**



SFP

Single Port Multi-Port Ganged



Amphenol's SFP connector series is a 20 position connector and cage combo for mounting to a host PCB with a metal cage enclosing the connector. These connectors are similar to the Gigabit Interface Converter Interface (GBIC), but they are smaller in size and operate at much faster data transfer rates.

Amphenol single port and stacked versions are rated up to 10 Gbps. They are available in standard RoHS compliant or non-RoHS compliant versions. The cages are a one-piece construction with enhanced transceiver mating tabs presently available in press-fit version, with solder version and longer or shorter pins available as custom options.

Applications

- Fibre Channel
- Gigabit Ethernet
- InfiniBand™
- Servers
- Routers
- Storage Devices
- Switches
- Optical Devices
- Networking Devices

Product Specification for SFP cages and connector system

The interconnect system comprises of an SFP cage assembly which is used with 20 position SFP connectors complying with MSA Agreement INF-8074i.

Availability: 1X1, 1x2, 1x4 and 1x6 cages as well as versions with heat sinks and light pipes, including stacked 2x1 and 2x4 are available. SFP+ and enhanced EMI performance cages also available.

General Requirements

- RoHS compliant
- Cages are tray packaged or tape and reel (single port)
- Dust cover for front face is available (bulk packed)
- Industry standard EIA-364

Mechanical Characteristics

Accepts multiple transceivers per INF-8074i
Durability of 250 mating cycles

Electrical Characteristics

Hot swappable
Operating voltage 3.3V at 0.5A maximum
Cages include spring contacts for superior EMI grounding
Selected versions provide enhanced EMI shielding through the use of supplementary ground tabs.

Materials

- Cage: Copper alloy, nickel plated.
Selected versions available with matte tin over nickel.
- Enhanced EMI versions incorporate stainless steel ground tabs

Connectors:

- Contacts: Copper alloy plating - refer to p/n table
- Housing: Glass reinforced lead-free process solder reflow compatible UL94V-0

Temperature Rating

- Operating Temperature = -55°C to +85°C
- Storage Temperature = -55°C to +105°C

Packaging

- Tape and reel available for single port, Tray packaging for all sizes.
- Bulk packaged dust covers

www.sfpconnectors.com

Telephone: (416) 291-4401 Fax: (416) 754-8668 E-Mail: sales@amphenolcanada.com

All specifications are subject to change without notice.

SFP

Single Port Multi-Port Ganged



Ordering Information

Contact Amphenol for additional options

SFP & XFP Connector UE75 - A X0 - X 0 0 0 T

SERIES DESIGNATION (ROHS)	UE75	PACKAGING	T = Tape and reel packaging
STYLE	A - R/A single surface mount connector	LUBRICANT OPTION	0 = Non lubricated
NUMBER OF POSITIONS	20 - 20 position SFP connector 30 - 30 position XFP connector	0 = Standard	
CONTACT PLATING	2 - 30µ" gold plating on mating area gold flash on termination 3 - 30µ" gold plating RoHS plating on termination (tin matte) 5 - 15µ" gold plating on mating area gold flash on termination 6 - 15µ" gold plating RoHS plating on termination (tin matte)	0 = Standard (black)	

Ordering Information

Contact Amphenol for additional options

SFP Cage U77 - X 1 1 1 X - X 0 X X

SERIES DESIGNATION	U77	PACKAGING	1 = Tray packaging T = Tape and reel packaging (for 1X1 and 1X2 only)
STYLE	A = One row C = One row cage + Light Pipe combo E = One row cage + Heat Sink combo F = One row cage 1 deg angle	OPTION 1	0 = Standard X = Customer specific
NUMBER OF PORT IN ROW	1 = Single in row	0 = Standard	
1 = Tab grounding	1 = Tab grounding 2 = Enhanced EMI tabs 6 = SFP+/ IPF cage	PLATING	0 = No plating (for low cost version) 1 = Bright tin (for wave solder) 2 = Nickel 3 = Matte tin (for reflow up to 245 degree)
1 = Standard	1 = Standard	MOUNTING	Various options available Consult sales or website for details



www.sfpconnectors.com

Telephone: (416) 291-4401 Fax: (416) 754-8668 E-Mail: sales@amphenolcanada.com

All specifications are subject to change without notice.

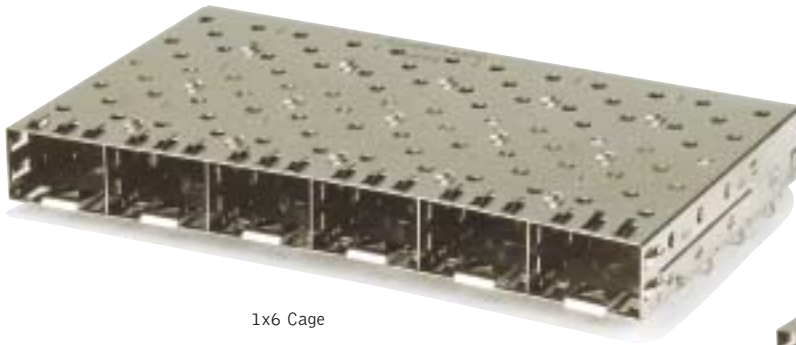
Ganged & Stacked Options



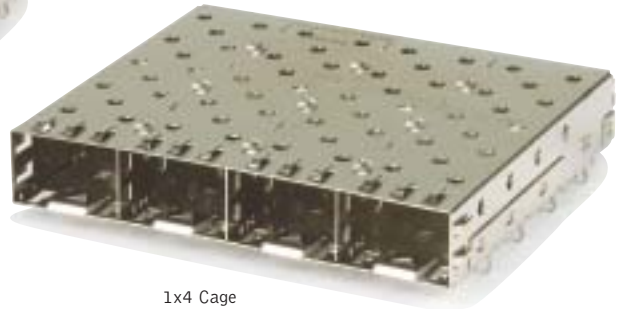
2x1 SFP Cage & Connector Combo



Custom 2x1 SFP Cage & Connector Combo



1x6 Cage



1x4 Cage



2x2 Combo (planned)

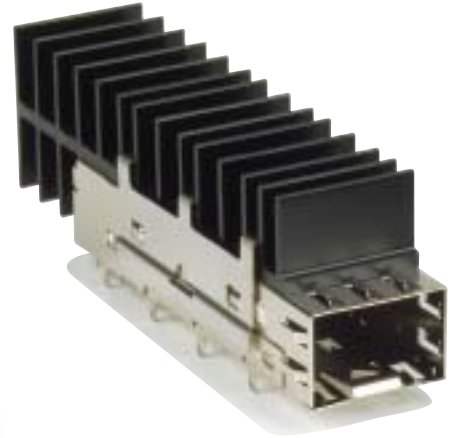


2x4 Combo

Heat Sinks & Light Pipe Options



1x4 SFP cage with heat sinks



Single port SFP cage with heat sinks



1x4 SFP cage with light pipes



1x6 SFP cage with light pipes

SFP Combos

ORDERING INFORMATION

Contact Amphenol for additional options

SFP Cage & Connector

U X 78 - X X 1 1 X - X X X X X

SERIES DESIGNATION

RoHS 5 for Press Fit Pins on connector
RoHS 6 for Through Hole Pins on connector

STYLE

- A - Single connector + cage combo
- B - Stacked connector and cage
- C - Single/stacked con, cage, Light Pipe (on Top) combo
- D - Stacked connector+cage, Light Pipe (in the cage)
- L - Stacked low profile combo

NUMBER OF PORT IN ROW

- 1 - 1X1 or 2X1
- 2 - 1X2 or 2X2
- 4 - 1X4 or 2X4

1 - Standard

1 - Standard

X - Various options available, customer specific
Consult sales or website for details

PACKAGING

- 1 - Tray packaging (stacked)
- T - Tape and reel packaging
(Both connector and cage)
- H - T&R for connector/tray for cage
(for 1Xn only)

PLATING OPTIONS FOR CAGE

- 1 - Bright tin (for wave soldering)
- 2 - Nickel
- 3 - Matte tin (for SMT soldering)

PLATING OPTIONS FOR CONNECTOR

- 1 - 30µ" gold plating on mating area
150-300µ" tin/lead on termination
- 2 - 30µ" gold plating on mating area
gold flash on termination
- 3 - 30µ" gold plating on mating area
150-300µ" matte tin on termination
- 4 - 15µ" gold plating on mating area
150-300µ" tin/lead on termination
- 5 - 15µ" gold plating on mating area
gold flash on termination
- 6 - 15µ" gold plating on mating area
150-300µ" matte tin on termination

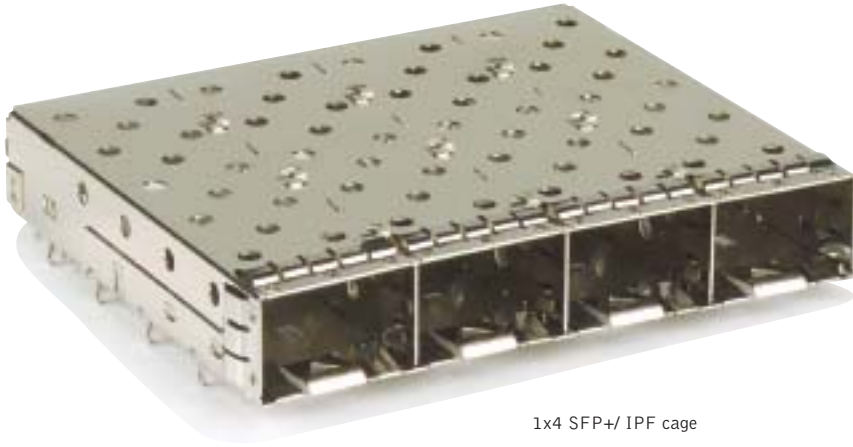
OPTIONAL DUST COVER

- 0 - Without dust cover
- D - With dust cover (shipped loose)

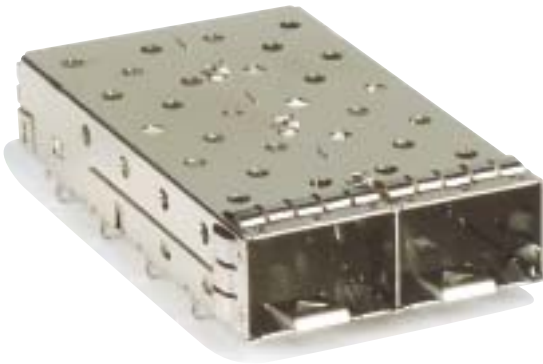
HEAT SINK / LIGHT PIPE OPTION

- 0 - None
- X - Other options available, customer specific

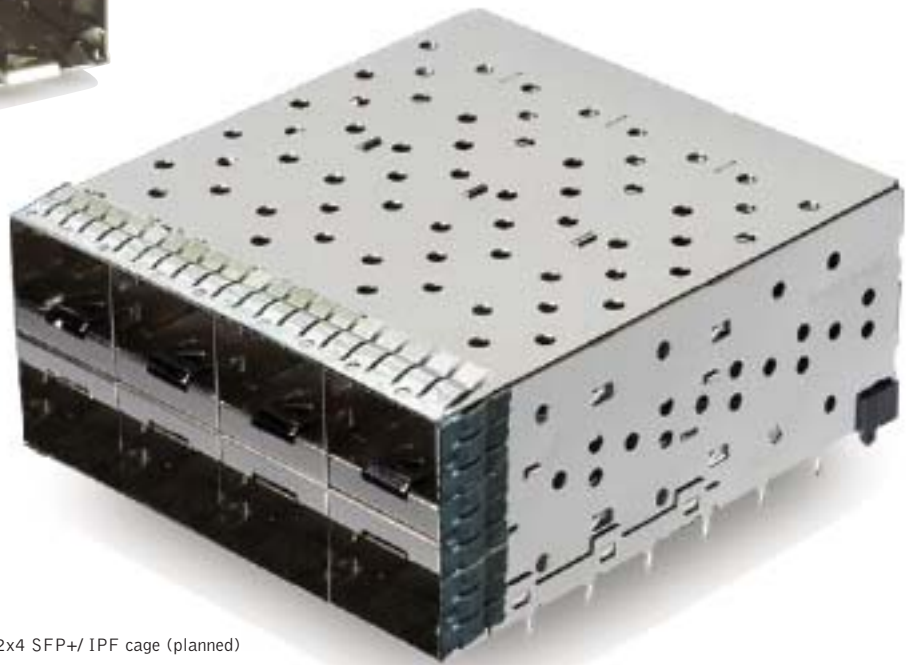
SFP Plus & SFP Enhanced



1x4 SFP+/ IPF cage



1x2 SFP+/ IPF cage



2x4 SFP+/ IPF cage (planned)

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View U77A16182001](#) on WIN SOURCE

 [Amphenol](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management