ExpressPort™ SFP+ 2xN Combos Cage/Connector

Amphenol

Now you're connected!

LIGHT PIPE CONFIGURATIONS

(4 LIGHT PIPES PER 2X1)   (2 INNER LIGHT PIPES PER 2X1)   (2 OUTER LIGHT PIPES PER 2X1)
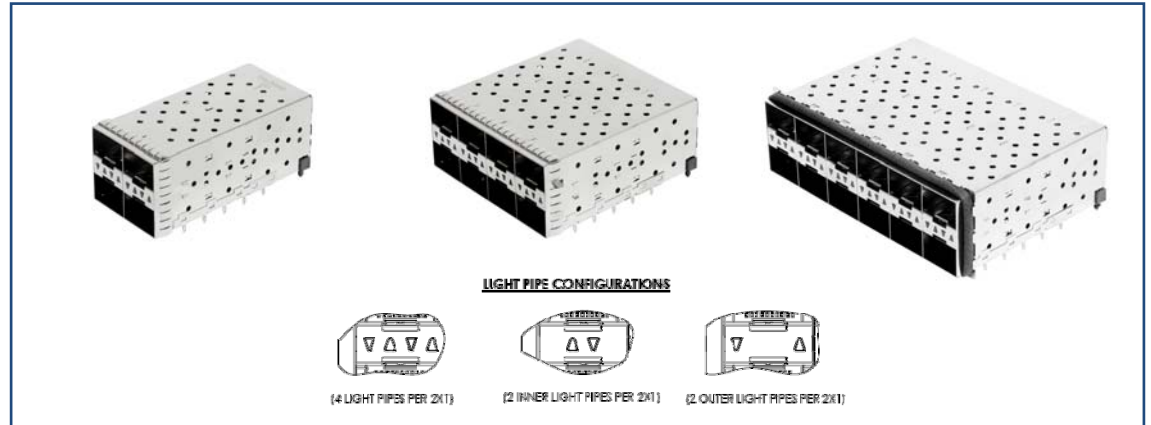
Description

Amphenol's ExpressPort™ SFP+ 2xN Combos expand Amphenol's SFP series product offering to provide data transfer speeds of up to 10 Gbps. This is a high speed I/O interconnect system providing a higher speed, inexpensive External I/O product, primarily for the networking, telecom and storage systems markets.

ExpressPort™ SFP+ 2xN Combos consists of a special stacked connector system and a cage with compliant press-fit pin tails.

Amphenol's unique ExpressPort™ SFP+ cage constuction features EMI shielding either in the form of metal spring fingers that interface with the panel cut-out, or an elastomeric gasket that is compressed between the cage flange and the rear surface of the mounting panel.
The EMI spring finger tabs are spot-welded to the cage in a continuous strip to provide improved EMI sealing, with "kinkless" tabs to reduce the potential for damage to the tabs during assembly to a chassis panel.
The Elastomeric sealing gasket is captured by features on the flange, preventing gasket creep, and maintaining alignment for reliable EMI sealing.
These cages also feature the removal of ventilation holes near the front of the cage to eliminate potential catch points for the mating module EMI springs.

Additional features include integrated internal lightpipes (2 or 4 lightpipes per 2x1 stacked port pair). Other custom features include an enhanced impedance performance design and additional EMI sealing options.

This new design minimizes impedance discontinuities and reflections at high data rates, and provides a 10 to 20 dB improvement in Near-End Crosstalk allowing the use of longer copper cables, improved pcb routing, and resulting in an overall lower interconnect loss budget. Common Mode and Differential Mode Return Loss also show superior performance incomparison to other available products.

Applications

The demand for higher data rates, improved electrical performance and supression of EMI generated by higher frequencies are driving the development and availability of SFP+ products with more features and configurations for use in both Telecom and Datacom applications using 10 Gb Ethernet and 8Gb Fibre Channel.

- Switches, Routers, Media converters, Storage applications

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Electrical Properties

ExpressPort™ SFP+ 2xN Combos feature superior high speed electical performance:

- 10+ Gbps serial data transmisison
- Current: 0.5 A max per contact at 3.3V
- Differential Impedance: 100 Ohm
- DWV: 300 VAC
- Insulation Resistance: 1000 MOhm min
- Contact Resistance: 80 mOhms max

Mechanical Properties

ExpressPort™ SFP+ 2xN Combos provide a compact, modular, robust I/O:

- 2x1, 2x2, 2x4, 2x6 and other configurations
- 4 or 2 (Inner or Outer) light pipes per 2x1 stacked port pair
- Compliant press-fit pins
- RoHS Compliant
- Nickel or tin plated copper alloy cage
- Copper alloy EMI cage spring fingers, or conductive elastomeric EMI cage gasket
- Internal Connector housing of UL94V-0 LCP, compliant with RoHS solder reflow process
- 250 mating cycles durability
- Operating Temp range -55C to +85C; Storage Temp range -55C to +105C

Available Documents

Drawing Numbers:

U86-B1427-00XX1	2x1 ExpressPort™ SFP+, Elastomeric EMI Gasket, No Light Pipes
U86-B1627-00XX1	2x1 ExpressPort™ SFP+, EMI Spring Fingers, No Light Pipes
U86-D1427-X0XX1	2x1 ExpressPort™ SFP+, Elastomeric EMI Gasket, With Light Pipes
U86-D1627-X0XX1	2x1 ExpressPort™ SFP+, EMI Spring Fingers, With Light Pipes
U86-BX427-00XX1	2xN ExpressPort™ SFP+, Elastomeric EMI Gasket, No Light Pipes
U86-BX627-00XX1	2xN ExpressPort™ SFP+, EMI Spring Fingers, No Light Pipes
U86-DX427-X0XX1	2xN ExpressPort™ SFP+, Elastomeric EMI Gasket, With Light Pipes
U86-DX627-X0XX1	2xN ExpressPort™ SFP+, EMI Spring Fingers, With Light Pipes

Many other configurations available – contact factory or Authorized Amphenol representative.

Product Specification:
S6020C- ExpressPort SFP+ 2xN Combos.pdf

Test Report:
QTR9300419

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