



FLYOVER® SFP, QSFP & OSFP PANEL ASSEMBLIES

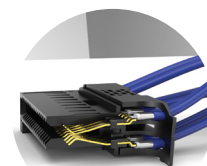
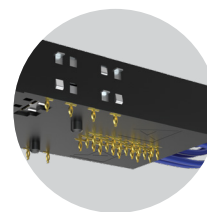


PAM 4	PAM 4	PAM 4
56	112	224
G b p s	G b p s	G b p s

FEATURES & BENEFITS

Flyover® panel cable systems utilize Samtec Flyover® cable technology to route data above lossy PCB through Eye Speed® ultra low skew twinax cable, simplifying board layout and extending signal reach. The modular design enables optimized systems that improve heat management, increase signal integrity performance, build in scalability for future upgrades and reduce costs by creating a multifunction board.

- High-speed contacts directly terminated to Eye Speed® ultra low skew twinax
- Low-speed and power positions transmitted through press-fit contact tails
- Multiple end 2 (co-packaged and near-chip) options for design flexibility
- Cages and heat sinks available for optimized thermal performance
- SI Evaluation Kits available, visit [samtec.com/kits](https://www.samtec.com/kits)



FLYOVER® SFP SYSTEM

- 112 Gbps PAM4 performance
- Belly-to-belly capable for maximum density
- Accepts all MSA compliant SFP pluggable modules
- Eye Speed Thinax™ ultra low skew twinax cable (3.5 ps/m max)

FLYOVER® OSFP SYSTEM

- Up to 1600 Gbps aggregate (224 Gbps PAM4)
- 8 Channels (x8 bidirectional, 16 differential pairs)
- Belly-to-belly capable for maximum density
- Eye Speed Thinax™ ultra low skew twinax cable (3.5 ps/m max) or Eye Speed® hyper low skew twinax (1.75 ps/m max)

FLYOVER® QSFP SYSTEM

- 4 Channels (x4 bidirectional, 8 differential pairs)
- Up to 400 Gbps aggregate (112 Gbps PAM4)
- Compatible with all MSA QSFP pluggables
- Eye Speed® ultra low skew twinax cable (3.5 ps/m max)

FLYOVER® QSFP DOUBLE DENSITY

- 8 Channels (x8 bidirectional, 16 differential pairs)
- Up to 800 Gbps aggregate (112 Gbps PAM4)
- PCIe® 6.0/CXL® 3.2 capable
- Belly-to-belly capable for maximum density
- Backward compatible with QSFP and QSFP-DD modules
- Eye Speed® ultra low skew twinax or Eye Speed Thinax™ twinax cable (3.5 ps/m max)

The PCIe® design mark is a registered trademark and/or service mark of PCI-SIG.

FSFP
CABLE TYPE
CABLE LENGTH
END 2 OPTION
-01

= 34 AWG, 92 Ω Thinax™ ultra low skew twinax cable, 2 pairs

-"XX.X"

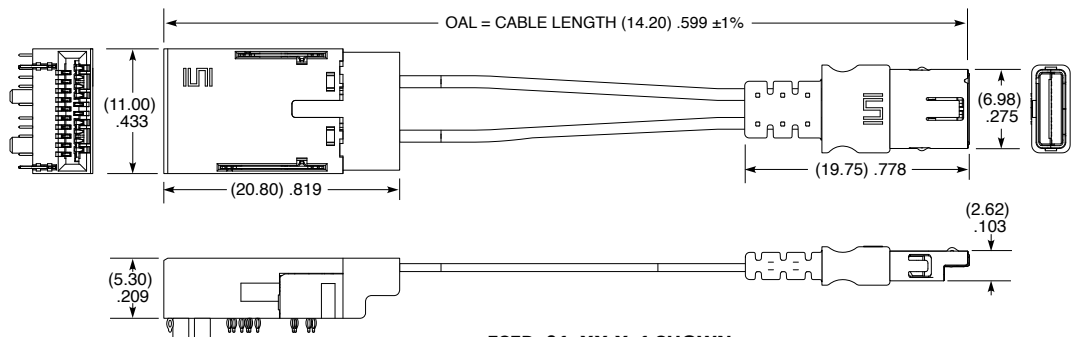
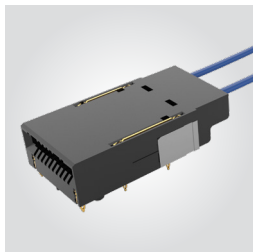
 = Length in inches
 04.0" (101.6 mm) minimum

-1

= ARM6-02 (AcceRate®)

-2

= NVAC 2x1 (NovaRay®)

FSFP

FSFP-01-XX.X-1 SHOWN
SFPC
STACK
NO. OF PORTS
EMI PANEL OPTION
OPTION
STYLE
-1
 = Single High

-1
 = One Port

-2
 = Two Ports

-S
 = Spring Fingers

(Leave blank for no light pipes)

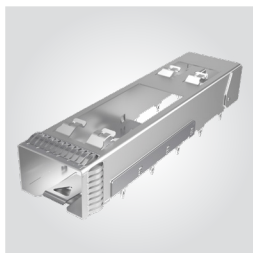
-LP
 = Light Pipe

-N
 = No Heat Sink, Closed Top

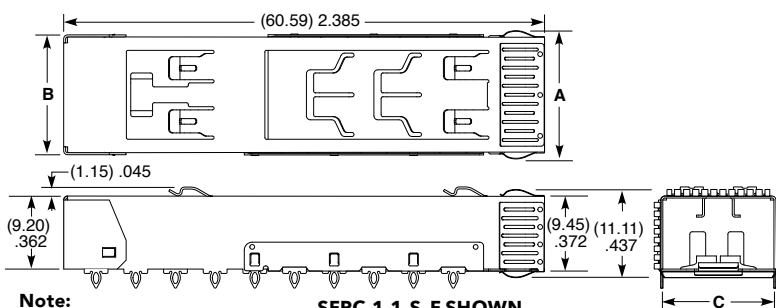
-H
 = Closed Top With Holes

-A
 = Absorber

-F
 = Flyover®

SFPC-F


NO. OF PORTS	A	B	C
-1	(16.16) .636	(15.10) .594	(14.25) .561
-2	(30.41) 1.197	(29.35) 1.156	(28.50) 1.122



Note:
 Some sizes, styles and options are non-standard, non-returnable.

SFPC-1-1-S-F SHOWN
HS-SFP
HEAT SINK STYLE
HEAT SINK HEIGHT
LIGHTPIPE
-P1
 = Pin (AL)

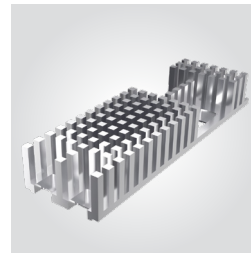
-F1
 = Front to Back Fin (AL)

-01
 = (7.50 mm) .295" height

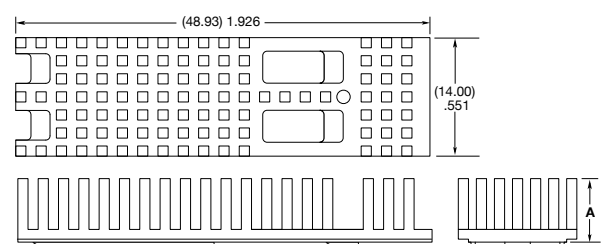
-02
 = (13.50 mm) .531" height (Not available with -F1)

(Leave blank for no light pipe)

-LP
 = Light Pipe

HS-SFP


HEAT SINK HEIGHT	A
-01	(7.50) .295
-02	(13.50) .531


HS-SFP-P1-01 SHOWN