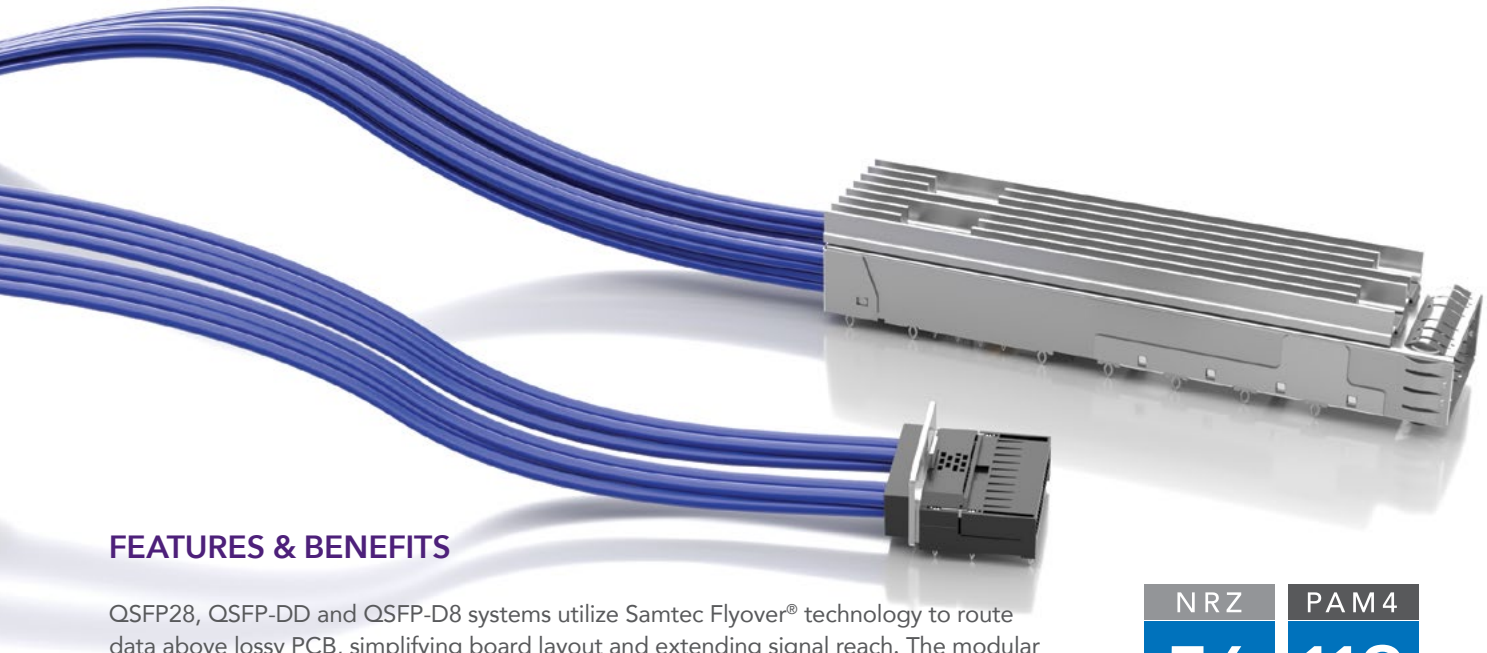
FLYOVER® QSFP CABLE ASSEMBLIES



FEATURES & BENEFITS

QSFP28, QSFP-DD and QSFP-D8 systems utilize Samtec Flyover® technology to route data above lossy PCB, 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 reduces costs by creating a multifunction board.

NRZ 56 Gbps

PAM4 112 Gbps

FLYOVER® QSFP SYSTEM

- 4 Channels (x4 bidirectional, 8 differential pairs)
- Up to 400 Gbps aggregate (112 Gbps PAM4)
- Compatible with all MSA QSFP pluggables
- Multiple heat sink options available for optimal dissipation
- Eye Speed® 30 or 34 AWG twinax cable
- Multiple end 2 options for design flexibility
- Evaluation Kits available (REF-205303-X.XX-XX and REF-200471-X.XX-XX), visit samtec.com/kits

FLYOVER® QSFP DOUBLE DENSITY

- 8 Channels (x8 bidirectional, 16 differential pairs)
- Up to 400 Gbps aggregate (56 Gbps PAM4)
- Belly–to–belly mating for maximum density
- Backward compatible with QSFP modules
- Multiple heat sink options available for optimal dissipation
- Variety of end 2 options
- Evaluation Kits available (REF-205605-X.XX-XX and REF-203423-X.XX-XX), visit samtec.com/kits



Localized press-fit control and power contacts eliminate the need for a secondary cable and connector



High–speed contacts directly soldered to Eye Speed® ultra low skew twinax

800G FLYOVER® DOUBLE DENSITY

- 8 Channels (x8 bidirectional, 16 differential pairs)
- Up to 800 Gbps aggregate (112 Gbps PAM4)
- Belly-to-belly mating for maximum density
- Backward compatible with QSFP & QSFP-DD modules
- Multiple heat sink options available for optimal dissipation
- Variety of end 2 options

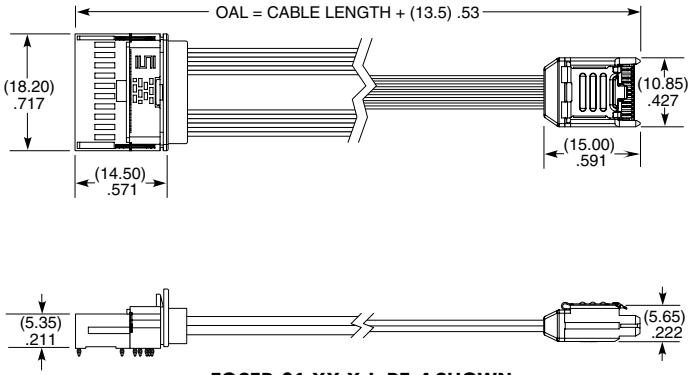
Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

FLYOVER® QSFP28 CABLE ASSEMBLY

FQSFP	–	LEAD STYLE	–	CABLE LENGTH	–	PLATING	–	CONTACT TYPE	–	END OPTION
		–01 = 10 Low-Speed, 8 Pairs High-Speed		**–"XX.X"** = Length in inches 04.0" (101.6 mm) minimum		**–L** = 10 µ" (0.25 µm) Gold over 50 µ" (1.27 µm) Ni on contact area, Matte Tin on tail		**–PF** = Press-fit		**–3** = ECUE **–4** = ARC6-8

FQSFP

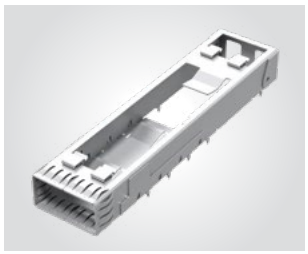


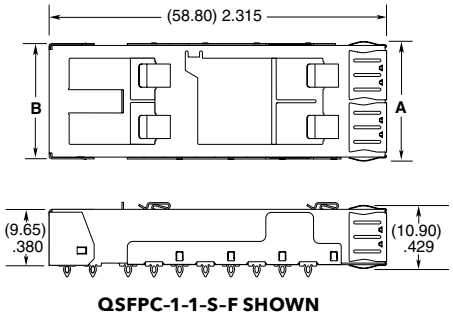


FQSFP-01-XX.X-L-PF-4 SHOWN

QSFPC	–	CAGE OPTION	–	NO. OF PORTS	–	EMI PANEL OPTION	–	OPTION	–	FLYOVER
		–1 =Single Stack		**–1** = One Port **–2** = Two Ports **–4** = Four Ports		**–S** = Spring Fingers		(Leave blank for no Light Pipe) **–LP** = Light Pipe (1 & 4 ports only) **–N** = No heat sink closed top (Not available with –LP)		(Leave blank for no flyover) **–F** = Flyover

QSFPC





QSFPC-1-1-S-F SHOWN

NO. OF PORTS	A	B	C
–1	(20.62) .812	(19.85) .781	(19.00) .748
–2	(39.62) 1.560	(38.85) 1.530	(38.00) 1.496
–4	(77.62) 3.056	(76.85) 3.026	(76.00) 2.992

HEAT SINKS	
PART NUMBER	HEAT SINK HEIGHT
HS-QSFP-P1-01	(4.20 mm) .165"
HS-QSFP-P1-02	(6.50 mm) .256"
HS-QSFP-P1-03	(13.50 mm) .531"
HS-QSFP-P1-04	(1.50 mm) .059"

For Light Pipe, add -LP to the end of part number.
View complete specifications at samtec.com?HS-QSFP

LIGHT PIPES	
PART NUMBER	NO. OF PORTS
LP-FQSFP-01	1 pipe
LP-FQSFP-02	2 pipes
LP-FQSFP-04	4 pipes

View complete specifications at samtec.com?LP-FQSFP

View complete specifications at: samtec.com?FQSFP & samtec.com?QSFPC

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

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