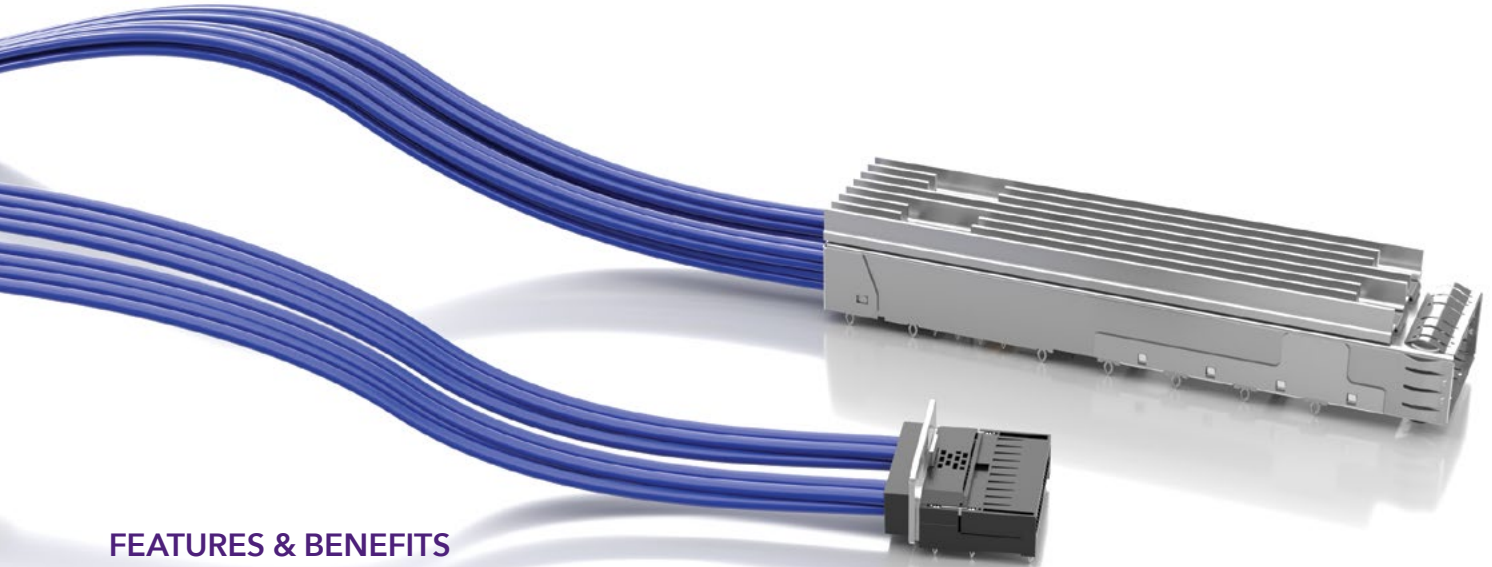


FLYOVER® QSFP CABLE ASSEMBLIES



FEATURES & BENEFITS

QSFP, 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 reduce costs by creating a multifunction board.

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

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), visit [samtec.com/kits](https://www.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

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-203424-X.XX-XX), visit [samtec.com/kits](https://www.samtec.com/kits)

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

FLYOVER® QSFP DOUBLE DENSITY CABLE ASSEMBLY

QSFP	DD	LEAD STYLE	FOOTPRINT	CABLE LENGTH	END 2 OPTION
		-01 = 20 Low-Speed, 16 Pairs High-Speed	-A = Primary -B = Secondary (Belly-to-Belly only) OAL = CABLE LENGTH + (17.27) 0.68	-"XX.X" = Length in inches 04.0" (101.6 mm) minimum	-3 = ARC6-16 Additional end options such as NovaRay® available; contact HDR@samtec.com

FQSFP-DD

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

View complete specifications at: samtec.com?QSFP-DD

PRESS-FIT TOOLING
CAT-PF-FQSFP-DD-01
For more information, visit www.samtec.com/tooling

QSFP	DD	STACK	NUMBER OF PORTS	EMI PANEL OPTION	FLYOVER
		-1 = Single Stack	-1 = One Port -2 = Two Ports -3 = Three Ports	-S = Spring Fingers	-F = Flyover

QSFP-DD

PRESS-FIT TOOLING
CAT-PF-FQSFP-DD-02-01 (1 Port)
CAT-PF-FQSFP-DD-02-02 (2 Port)
CAT-PF-FQSFP-DD-02-03 (3 Port)
For more information, visit www.samtec.com/tooling

NO OF PORTS	A	B	C
-1	(20.62) .812	(19.87) .782	(19.00) .748
-2	(39.62) 1.560	(38.87) 1.530	(38.60) 1.496
-3	(58.62) 2.308	(57.87) 2.278	(57.00) 2.244

View complete specifications at: samtec.com?QSFP-DD

HS-QSFP	DD	HEAT SINK STYLE	HEAT SINK HEIGHT
		-P1 = Pin (Aluminum)	-1 = (4.20 mm) .165" height -2 = (6.50 mm) .256" height -3 = (13.50 mm) .531" height

HS-QSFP-DD

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

View complete specifications at: samtec.com?HS-QSFP-DD

HEAT SINK HEIGHT	A
-1	(4.20) .165
-2	(6.50) .256
-3	(13.50) .531