

FLYOVER® QSFP CABLE ASSEMBLIES



FEATURES & BENEFITS

QSFP28 and QSFP-DD 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	PAM4
56 Gbps	112 Gbps

FLYOVER® QSFP28 SYSTEM

- 4 Channels (x4 bidirectional, 8 differential pairs)
- ~100 Gbps 28G NRZ aggregate
(~200 Gbps 56G PAM4; 400 Gbps 112G PAM4)
- Compatible with all MSA QSFP pluggables
- Heat dissipation: ~3.5 W/cable
- 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)
- ~200 Gbps 28G NRZ aggregate
(~400 Gbps 56G PAM4; 800 Gbps 112G PAM4)
- Belly-to-belly mating for maximum density
- Backward compatible with QSFP modules
- Heat dissipation: ~7+ W/cable
- 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



Increases panel density and optimizes airflow

Roadmap: Flyover® QSFP-DD 800G

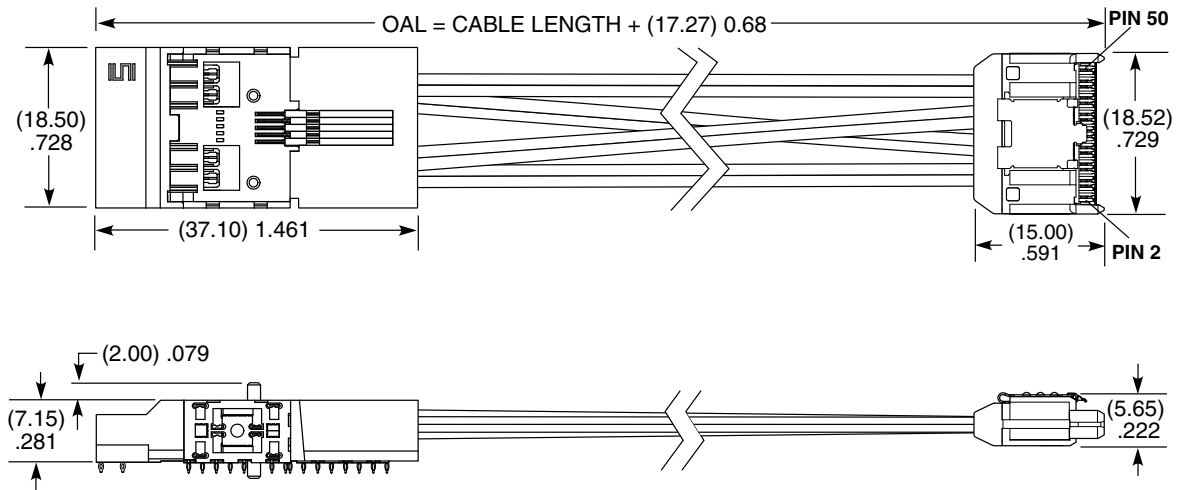
Samtec is developing Flyover® solutions for 800G including:

- Single to multiple ganged ports
- Belly-to-belly and mezzanine stack configurations
- Contact HDR@samtec.com for more information.

FLYOVER® QSFP DOUBLE DENSITY

FQSFP	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)	-"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



FQSFP-DD-01-X-XX.X-3 SHOWN

TOOLING

Press-fit: CAT-PT-FQSFP-DD-01

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

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