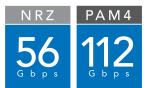
# FLYOVER® QSFP CABLE ASSEMBLIES

# **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.



## 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<sup>®</sup> 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





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

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



- ~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

#### 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.

#### samtec.com/qsfp-flyover

Increases panel

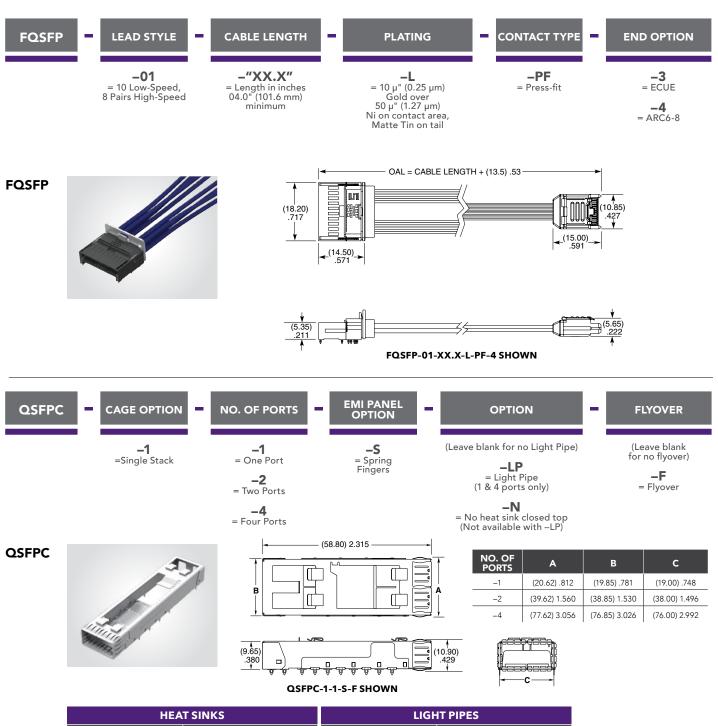
density and

optimizes airflow

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



HEAT SINKS		LIGHT PIPES	
PART NUMBER	HEAT SINK HEIGHT	PART NUMBER	NO. OF PORTS
HS-QSFP-P1-01	(4.20 mm) .165"	LP-FQSFP-1	1 pipe
HS-QSFP-P1-02	(6.50 mm) .256"	LP-FQSFP-2	2 pipes
HS-QSFP-P1-03	(13.50 mm) .531"	LP-FQSFP-4	4 pipes
HS-QSFP-P1-04	(1.50 mm) .059"	View complete specifications at samtec.com?LP-FQSFP	

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

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

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

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Samtec:

QSFPC-PF-03 QSFPC-PF-01 QSFPC-PF-02