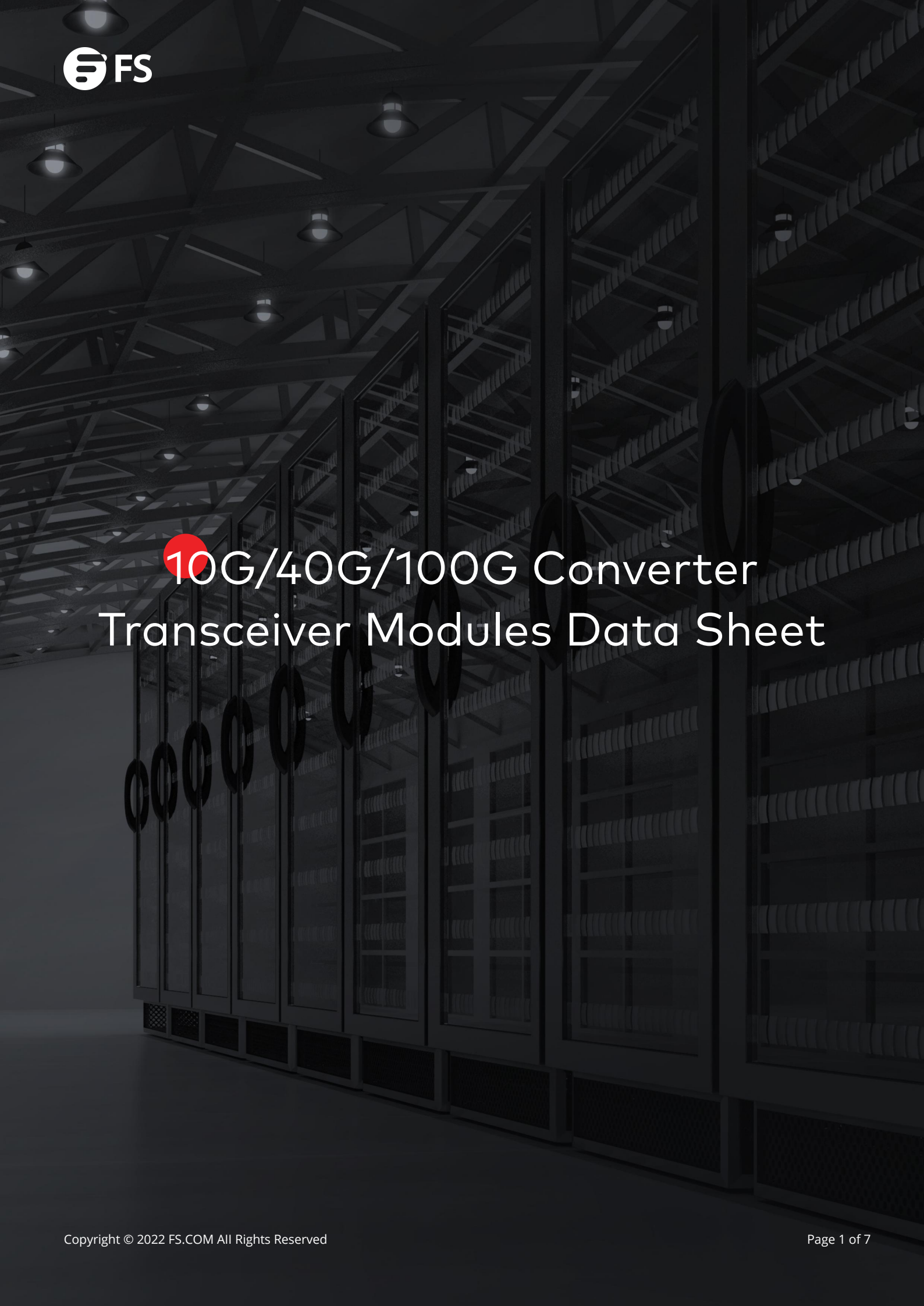


The background of the entire page is a dark, high-contrast photograph of a server room. Rows of server racks with glass doors are visible, receding into the distance. The ceiling has a complex network of pipes and several industrial-style pendant lights hanging from it.

10G/40G/100G Converter Transceiver Modules Data Sheet

Contents

Product overview	3
Features and benefits	3
Product specifications	4
Warranty	5
Ordering information	5
Regulatory and standards compliance	6
Additional information	6
Document history	6

Product overview

10G/40G/100G Converter Module (QSFP28 to SFP28, QSFP+ to SFP+, CFP2 to QSFP28, CFP to QSFP28), enables a smooth cost-effective connection between a single lane transceiver/cable and a quad lane port. (See Figure 1).

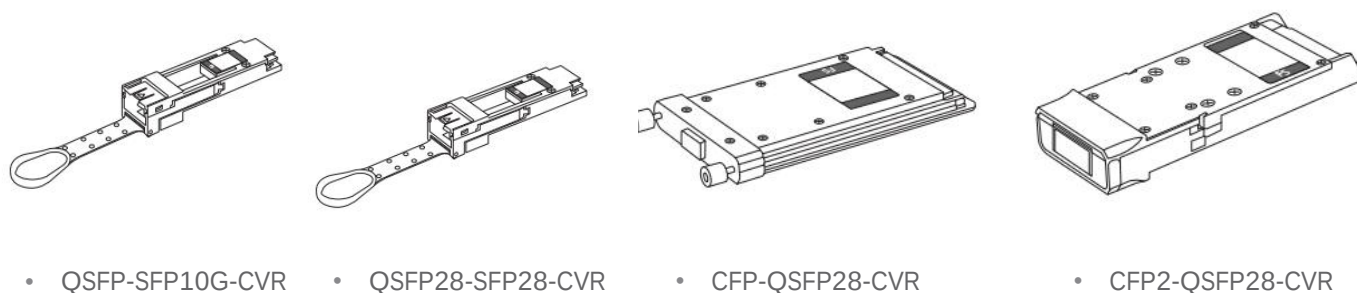


Figure 1.

10G/40G/100G Converter Optical modules

Features and benefits

- Adapter Converter Module
- Low Insertion Loss and Low Crosstalk
- For Data Center and Ethernet Applications
- Hot Pluggable MSA Compliant
- Tested in Targeted Switches for Superior Performance, Quality, and Reliability

Table 1 Optical transmit and receive specifications

Product	Description	Architecture	Form Factor	Data Rate	Compliance
QSFP-SFP10G-CVR	40G QSFP+ to 10G SFP+ Adapter Converter Module	4x10	QSFP+ to SFP+	10Gbps	IEEE802.3bj, IEEE-802.3, MSA Compliant, SFF-8665, SFF-8432
QSFP28-SFP28-CVR	100G QSFP28 to 25G SFP28 Adapter Converter Module	4x25	QSFP28 to SFP28	25Gbps	IEEE-802.3ba, IEEE-802.3bj, MSA Compliant, SFF-8436, SFF-8431
CFP-QSFP28-CVR	100G CFP to QSFP28 Adapter Converter Module	1x100	CFP to QSFP28	100Gbps	IEEE802.3ba, CFP MSA Compliant
CFP2-QSFP28-CVR	100G CFP2 to QSFP28 Adapter Converter Module	1x100	CFP2 to QSFP28	100Gbps	IEEE802.3bm, CFP MSA Compliant

QSFP-SFP10G-CVR

The QSFP-SFP10G-CVR adapter converter module provides conversion from QSFP+ to SFP+ form factors. This module is compliant with IEEE 802.3bj, IEEE-802.3 and SFF-8436, SFF-8431 standards. It is suitable for 10G Ethernet, Data Centers and Storage area networks.

QSFP28-SFP28-CVR

The QSFP28-SFP28-CVR adapter converter module provides conversion from QSFP28 to SFP28 form factors. This module is compliant with IEEE 802.3bj, IEEE-802.3 and SFF-8665, SFF-8432 standards. It is suitable for 25G Ethernet, Data Centers and Storage area networks.

CFP-QSFP28-CVR

The CFP-QSFP28-CVR adapter converter module provides conversion from CFP to QSFP28 form factors. This module is compliant with IEEE802.3bm and CFP MSA standards. It is suitable for 100G Ethernet, Data aggregation and backplane applications.

CFP2-QSFP28-CVR

The CFP2-QSFP28-CVR adapter converter module provides conversion from CFP2 to QSFP28 form factors. This module is compliant with IEEE802.3bm and MSA standards. It is suitable for 100G Ethernet, Data aggregation and backplane applications.

Product Specifications

Table 2 Adapter with power supply requirements

Product	Supply voltage	Power consumption	Characteristic impedance	Application
QSFP-SFP10G-CVR	3.15~3.45V	--	100Ω	Data Center 10G Ethernet
QSFP28-SFP28-CVR	3.15~3.45V	--	100Ω	Data Center 25G Ethernet
CFP-QSFP28-CVR	3.3V	2W	100Ω	Data Center 100G Ethernet
CFP2-QSFP28-CVR	--	--	--	Data Center 100G Ethernet

Table 3 Adapter operating conditions

Product	Operating case temperature	Operating relative humidity	Storage temperature
QSFP28-SFP28-CVR	-20~85°C	≤85%	-40~125°C
QSFP-SFP10G-CVR	-20~85°C	≤85%	-40~125°C
CFP2-QSFP28-CVR	0~70°C	5~85%	-20~85°C
CFP-QSFP28-CVR	0~70°C	--	--

Table 4 Mechanical specifications

Parameter	Product	Weight
Module weight (Max)	QSFP-SFP10G-CVR	640g
	QSFP28-SFP28-CVR	120g
	CFP-QSFP28-CVR	152g
	CFP2-QSFP28-CVR	344.96g

Warranty

- Standard warranty: 5 years
- For more information for FS Returns & Refunds policy, visit <https://www.fs.com/policies/warranty.html> or https://www.fs.com/policies/day_return_policy.html

Ordering information

Table 5 Ordering information

Part number	Description
QSFP-SFP10G-CVR	40G QSFP+ to 10G SFP+ Adapter Converter Module
QSFP28-SFP28-CVR	100G QSFP28 to 25G SFP28 Adapter Converter Module
CFP-QSFP28-CVR	100G CFP to QSFP28 Adapter Converter Module
CFP2-QSFP28-CVR	100G CFP2 to QSFP28 Adapter Converter Module

| Regulatory and standards compliance

Standards

- SFF-8436
- SFF-8431
- SFF-8665
- SFF-8432
- IEEE 802.3ba Amendment of IEEE Std 802.3
- IEEE 802.3bm Amendment of IEEE Std 802.3
- IEEE 802.3bj Amendment of IEEE Std 802.3

Safety

- IEC 60825-2 and Comply with 21 CFR 1040.10 and 1040.11

| Additional information

For more information about 100GBASE QSFP28 optics and copper modules, contact your account manager or visit <https://www.fs.com/c/fiber-optic-transceivers-9>

| Document history

New or revised topic	Described in	Date
10G/40G/100G Converter Transceiver Modules Data Sheet	Updated all	10/10/2022

Shenzhen (China)

Address: 24F, Yingfeng Center, Haitian 2nd Rd,
Nanshan District, Shenzhen
Tel: +86 400 865 2852
Email: sales@feisu.com

Delaware (United States)

Address: 380 Centerpoint Blvd, New Castle,
DE 19720, United States
Tel: +1 (888) 468 9910
Email: us@fs.com

Munich (Germany)

Address: NOVA Gewerbepark Building 7, Am
Gfild 7,85375 Neufahrn bei Munich, Germany
Tel: +49 (0) 8131 377 3008
Email: de@fs.com

Singapore

Address: 30A Kallang Pl, #11-10/11/12 Singapore
339213
Tel: +65 3138 1992
Email: sg@fs.com

Wuhan (China)

Address: 9-14F, Optical Valley Software Park
A7, Guanshan Ave, Wuhan
Tel: +86 400 865 2852
Email: sales@feisu.com

Birmingham (United Kingdom)

Address: Regus Edmund House, 12-22 Newhall
Street, Birmingham, B3 3AS
Tel: +44 (0) 121 726 4775
Email: uk@fs.com

Melbourne (Australia)

Address: 57-59 Edison Rd, Dandenong South,
VIC 3175, Australia
Tel: +613 5909 9990

Email: au@fs.com

Tokyo (Japan)

Address: JS Progress Building, 4-1-23 Heiwajima,
Ota-ku, Tokyo 〒143-0006
Tel: +813 6897 9438
Email: jp@fs.com

FS has several offices around the world. Addresses, phone numbers are listed on the FS Website at https://www.fs.com/contact_us.html
FS and FS logo are trademarks or registered trademarks of FS in the U.S. and other countries.