DATA SHEET

Transceivers
100G QSFP28 SWDM4
CQM-914A03

Properties

- Protocol 100G Ethernet
- Data rate 103.125 Gbps
- Reach up to 100m
- Wavelengths 851/881/911/941nm
- LC/PC duplex connector
- Multimode fiber
- Temp. range 0 ... 70°C
- Link budget at least 3 dB
- Power consumption < 3.5 W



General data	
Form factor	QSFP28
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	100G Ethernet
Data rate standards	100GBASE-SWDM4
Media type	Multimode
Connector	LC/PC duplex
Modulation Format	NRZ
Built-in FEC	No
CDR	Double
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.13 V ... 3.47 V
Power consumption	< 3.5 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1M

Absolute Maximum Ratings	
Max. supply voltage range	-0.5 V ... 3.6 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 85 %

Transmitter Specifications	
Laser Type	VCSEL
Operating channels	851nm (844 ... 858nm)
	881nm (874 ... 888nm)
	911nm (904 ... 918nm)

HUBER+SUHNER

Transceivers

100G QSFP28 SWDM4

CQM-914A03

Transmitter Specifications	
	941nm (934 ... 948nm)
Grid	None
Outer Optical Modulation Amplitude (OMA)	-5.5 dBm ... 3 dBm
Supported Data rate	103.125 Gbps
Transmitter and dispersion eye closure for PAM4 (TDECQ)	< 4.8 dB
OMA - TDECQ	> -7.0 dBm (Lanes 1, 2)
	> -7.4 dBm (Lane 2)
	> -7.8 dBm (Lane 3)

Receiver Specifications	
Receiver Type	PIN
Operating channels	851nm (844 ... 858nm)
	881nm (874 ... 888nm)
	911nm (904 ... 918nm)
	941nm (934 ... 948nm)
Receiver Overload	> 3 dBm
Receiver Sensitivity (OMA)	< -8.8 dBm
Bit Error Rate at Receiver	1E-12
Maximum Optical Input Power per Lane (Overload)	3 dBm
Supported Data rate	103.125 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CQM-914A03xxxx-85	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-85: 850nm

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P31818 / Date of publication: 24.03.2026 / uncontrolled copy