DATA SHEET

Transceivers

100 Gb/s QSFP28 Coherent Tunable DWDM ZR

CQS-935A22

Properties

- Digital Coherent Optics module
- Multi-protocol support
- Data rate 103.125/111.809 Gbps
- Reach up to 80km (120km with amplification)
- Tunable over full C-band
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link Budget at least 22 dB



General data	
Form factor	QSFP28
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	100G Ethernet (no host FEC)
Media type	Singlemode
Connector	LC/PC duplex
Modulation Format	DQPSK
Built-in FEC	Staircase FEC
Management Interface	CMIS
CDR	Double
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.135 V ... 3.465 V
Power consumption	< 5 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 95 %

Transmitter Specifications	
Laser Type	Coherent
Operating channels	Tunable from C14 to C61 / H13 to H60
Grid	DWDM 50GHz C/H-band

Transceivers

100 Gb/s QSFP28 Coherent Tunable DWDM ZR

CQS-935A22

Transmitter Specifications	
Average launch power per lane	-8 dBm ... -4 dBm
Supported Data rate	103.125 Gbps ... 111.809 Gbps

Receiver Specifications	
Receiver Sensitivity	< -30 dBm (100G DQPSK SC, OSNR > 35 dB / 0.1nm)
	< -24 dBm (100G DQPSK RS, OSNR > 35 dB / 0.1nm)
Input Power range-DWDM-amplified	-18 ... 1 dBm (Full Rx OSNR tolerance, OSNR > 16.5 dB/0.1nm (SC), OSNR > 21.5 dB/0.1nm (RS))
	-22 ... 3 dBm (OSNR penalty < 1 dB relative to OSNR limit)
Receiver Overload	> 1 dBm
Receiver Sensitivity	< -30 dBm
Bit Error Rate at Receiver	1E-12
Supported Data rate	103.125 Gbps ... 111.809 Gbps
Maximum Receiver Power (Damage Threshold)	> 3 dBm

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CQS-935A22xxxx-15	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-15: 1550nm

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-P40200 / Date of publication: 19.11.2026 / uncontrolled copy