DATA SHEET

Transceivers

100 Gb/s QSFP28 Single Lambda DWDM PAM4 ZR

CQS-918A06

Properties

- Protocol 100G Ethernet
- Single Lambda, Inb. FEC
- PAM4 Modulation
- Data rate 103.125 Gbps
- Reach 2km (100km *with ampl. & disp. comp.)
- Any ITU DWDM channel between C21 and C60
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 8 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
Media type	Singlemode
Connector	LC/PC duplex
Modulation Format	PAM4
Built-in FEC	KP4-FEC
CDR	Double
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.15 V ... 3.45 V
Supply Current	< 1660 mA
Power consumption	< 5.5 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. supply voltage range	0 V ... 3.6 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 95 %

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Transmitter Specifications	
Laser Type	EML
Grid	DWDM 100GHz C-band
Available Wavelength in nm	Any ITU DWDM channel between C21 and C60
Average launch power per lane	-2 dBm ... 2 dBm
Dispersion range	-30 ps/nm ... 30ps/nm
Extinction Ratio	> 6 dB
Side Mode Suppression	> 30 dB
Supported Data rate	103.125 Gbps

Receiver Specifications	
Operating Wavelength Range	1527 nm ... 1567nm
Receiver Overload	> 4 dBm
Receiver Sensitivity	< -8 dBm
Minimum OSNR at Receiver	32 dBm / 0.1nm
Receiver Sensitivity at min. OSNR	-7 dBm
Bit Error Rate at Receiver	1E-15 (post FEC)
Receiver LOS De-Assert	< -10.5 dBm
Receiver LOS Assert	> -15 dBm
Receiver LOS Hysteresis	> 1 dB
Supported Data rate	103.125 Gbps
Maximum Receiver Power (Damage Threshold)	> 4 dBm

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CQS-918A06xxxx-ww	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-ww: DWDM channel chosen from the table at the end

Channel Allocation							
Code	ITU Number	Frequency (GHz)	Wavelength (nm)	Code	ITU Number	Frequency (GHz)	Wavelength (nm)
-21	C21	192100	1560.61	-41	C41	194100	1544.53
-22	C22	192200	1559.79	-42	C42	194200	1543.73
-23	C23	192300	1558.98	-43	C43	194300	1542.94
-24	C24	192400	1558.17	-44	C44	194400	1542.14
-25	C25	192500	1557.36	-45	C45	194500	1541.35
-26	C26	192600	1556.55	-46	C46	194600	1540.56
-27	C27	192700	1555.75	-47	C47	194700	1539.77
-28	C28	192800	1554.94	-48	C48	194800	1538.98
-29	C29	192900	1554.13	-49	C49	194900	1538.19
-30	C30	193000	1553.33	-50	C50	195000	1537.40
-31	C31	193100	1552.52	-51	C51	195100	1536.61
-32	C32	193200	1551.72	-52	C52	195200	1535.82
-33	C33	193300	1550.92	-53	C53	195300	1535.04
-34	C34	193400	1550.12	-54	C54	195400	1534.25
-35	C35	193500	1549.32	-55	C55	195500	1533.47
-36	C36	193600	1548.51	-56	C56	195600	1532.68
-37	C37	193700	1547.52	-57	C57	195700	1531.90
-38	C38	193800	1546.92	-58	C58	195800	1531.12
-39	C39	193900	1546.12	-59	C59	195900	1530.33

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Channel Allocation							
-40	C40	194000	1545.32	-60	C60	196000	1529.55

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