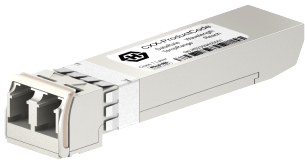
DATA SHEET

Transceivers
1G SFP DWDM EZX
CSS-327A29

Properties

- Multi-protocol support
- Data rate 125 Mbps and 1.0625...1.25 Gbps
- Reach up to 120km
- Any ITU DWDM channel between C17 and C61
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 32 dB



General data	
Form factor	SFP
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	1G Ethernet, 1G Fiber Channel, CPRI 2
Data rate standards	1000BASE-EZX
	CPRI Option 2
Media type	Singlemode
Connector	LC/PC duplex
Modulation Format	NRZ
Built-in FEC	No
CDR	none
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 450 mA
Power consumption	< 1.5 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

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 % ... 95 %

Transmitter Specifications	
Laser Type	EML
Grid	DWDM 100GHz C-band
Available Wavelength in nm	Any ITU DWDM channel between C17 and C61

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Transmitter Specifications	
Average launch power per lane	0 dBm ... 5 dBm
Extinction Ratio	> 8.2 dB
Side Mode Suppression	> 30 dB
Supported Data rate	125 Mbps / 1.0625 Gbps ... 1.25 Gbps

Receiver Specifications	
Receiver Type	APD
Operating Wavelength Range	1260 nm ... 1620nm
Receiver Overload	> -10 dBm
Receiver Sensitivity	< -32 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -33 dBm
Receiver LOS Assert	> -45 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	125 Mbps / 1.0625 Gbps ... 1.25 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSS-327A29xxxx-xx	"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)
-17	C17	191700	1563.86	-40	C40	194000	1545.32
-18	C18	191800	1563.05	-41	C41	194100	1544.53
-19	C19	191900	1562.23	-42	C42	194200	1543.73
-20	C20	192000	1561.42	-43	C43	194300	1542.94
-21	C21	192100	1560.61	-44	C44	194000	1542.14
-22	C22	192200	1559.79	-45	C45	194500	1541.35
-23	C23	192300	1558.98	-46	C46	194600	1540.56
-24	C24	192400	1558.17	-47	C47	194700	1539.77
-25	C25	192500	1557.36	-48	C48	194800	1538.98
-26	C26	192600	1556.55	-49	C49	194900	1538.19
-27	C27	192700	1555.75	-50	C50	195000	1537.40
-28	C28	192800	1554.94	-51	C51	195100	1536.61
-29	C29	192900	1554.13	-52	C52	195200	1535.82
-30	C30	193000	1553.33	-53	C53	195300	1535.04
-31	C31	193100	1552.52	-54	C54	195400	1534.25
-32	C32	193200	1551.72	-55	C55	195500	1533.47
-33	C33	193300	1550.92	-56	C56	195600	1532.68
-34	C34	193400	1550.12	-57	C57	195700	1531.90
-35	C35	193500	1549.32	-58	C58	195800	1531.12
-36	C36	193600	1548.51	-59	C59	195900	1530.33
-37	C37	193700	1547.72	-60	C60	196000	1529.55
-38	C38	193800	1546.92	-61	C61	196100	1528.77
-39	C39	193900	1546.12				

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