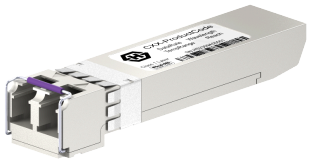
DATA SHEET

Transceivers
1G SFP CWDM ZX
CSS-300A24

Properties

- Multi-protocol support
- Data rate 125 Mbps and 1.0625...1.25 Gbps
- Reach up to 80km
- Any ITU CWDM channel between 1271nm and 1611nm
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 24 dB
- Power consumption < 1 W



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-ZX
	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	< 300 mA
Power consumption	< 1 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. supply voltage range	-0.5 V ... 4 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 95 %

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Transmitter Specifications	
Laser Type	Uncooled DFB
Grid	CWDM 20nm
Available Wavelength in nm	Any ITU CWDM channel between 1271nm and 1611nm
Channel Spacing	20 nm
Average launch power per lane	0 dBm ... 5 dBm
Extinction Ratio	> 9 dB
Side Mode Suppression	> 30 dB
Supported Data rate	125 Mbps / 1.0625 Gbps ... 1.25 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1260 nm ... 1620nm
Receiver Overload	> -3 dBm
Receiver Sensitivity	< -24 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -27 dBm
Receiver LOS Assert	> -38 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-300A24xxxx-ww	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-ww: CWDM channel chosen from table at the end

Channel Allocation			
Code	Wavelength (nm)	Code	Wavelength (nm)
-27	1271	-47	1471
-29	1291	-49	1491
-31	1311	-51	1511
-33	1331	-53	1531
-35	1351	-55	1551
-37	1371	-57	1571
-39	1391	-59	1591
-41	1411	-61	1611
-43	1431		
-45	1451		

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