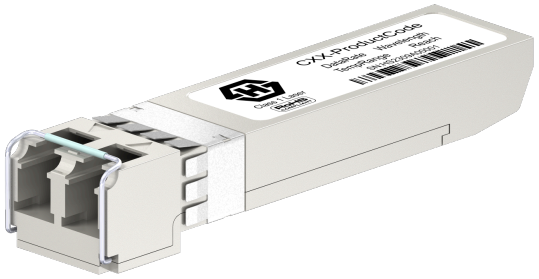
DATA SHEET

Transceivers
25G SFP28 LWDM LR
CSS-444A14

Properties

- Multi-protocol support
- Data rate 9.83...11.3 / 24.33...25.78 Gbps
- Reach up to 10km
- Any ITU LWDM channel between L1 and L12
- LC/PC duplex connector
- Singlemode fiber
- Temp. range -40 ... 85°C
- Link budget at least 14 dB



General data	
Form factor	SFP28
Product image	Actual product may differ from the images shown. Colors, design, and details can vary.
Protocol	10/25G Ethernet, eCPRI, CPRI 7/8/10
Data rate standards	25GBASE-LR
	25G eCPRI
	CPRI Option 7,8,10
Media type	Singlemode
Connector	LC/PC duplex
Modulation Format	NRZ
Built-in FEC	No
CDR	Double, with bypass control (by HW pins or RS bits)
Operation temperature	-40 °C ... 85 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 600 mA
Power consumption	< 2 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. supply voltage range	-0.3 V ... 4 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	0 % ... 85 %

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Transmitter Specifications	
Laser Type	EML
Grid	LWDM 800 GHz
Available Wavelength in nm	Any ITU LWDM channel between L1 and L12
Average launch power per lane	0 dBm ... 4 dBm
Dispersion Penalty	< 1 dB
Extinction Ratio	> 3.5 dB
Side Mode Suppression	> 30 dB
Supported Data rate	9.83 Gbps ... 11.3 Gbps / 24.33 Gbps ... 25.78 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1260 nm ... 1340nm
Receiver Overload	> 3 dBm
Receiver Sensitivity	< -13.4 dBm
Bit Error Rate at Receiver	5E-5
Receiver LOS De-Assert	< -15 dBm
Receiver LOS Assert	> -30 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	9.83 Gbps ... 11.3 Gbps / 24.33 Gbps ... 25.78 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSS-444A14xxxx-ww	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-ww: LWDM channel, chosen from table at the end

Channel Allocation					
Code	Channel	Wavelength (nm)	Code	Channel	Wavelength (nm)
-01	L01	1269.33	-07	L07	1295.56
-02	L02	1273.54	-08	L08	1300.06
-03	L03	1277.89	-09	L09	1304.58
-04	L04	1282.26	-10	L10	1309.14
-05	L05	1286.66	-11	L11	1313.71
-06	L06	1291.10	-12	L12	1318.35

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DOCUMENT PIM-P39584 / Date of publication: 29.01.2026 / uncontrolled copy