DATA SHEET

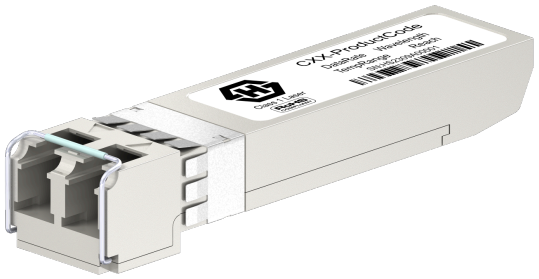
Transceivers

25G SFP28 Self Tunable DWDM LR

CSS-447A20

Properties

- Multi-protocol support
- Data rate 1.2...11.3 / 24.33...25.78 Gbps
- Reach up to 15km
- Self tunable over full C-band
- LC/PC duplex connector
- Singlemode fiber
- Temp. range -40 ... 85°C
- Link budget at least 20 dB (w/o dispersion penalty)



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
Operation temperature	-40 °C ... 85 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 800 mA
Power consumption	< 2.5 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

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Transmitter Specifications	
Laser Type	EML
Operating Wavelength Range	1528.77 nm ... 1566.31nm
Operating channels	Tunable from C14 to C61
Grid	DWDM 100GHz C-band
Channel Spacing	100 GHz
Average launch power per lane	0 dBm ... 4 dBm
Extinction Ratio	> 7.5 dB
Side Mode Suppression	> 35 dB
Supported Data rate	1.2 Gbps ... 11.3 Gbps / 24.33 Gbps ... 25.78 Gbps

Receiver Specifications	
Receiver Type	APD
Operating Wavelength Range	1260 nm ... 1620nm
Receiver Overload	> -7 dBm
Receiver Sensitivity	< -20 dBm
Bit Error Rate at Receiver	5E-5
Maximum Optical Input Power per Lane (Overload)	5 dBm
Receiver LOS De-Assert	< -24 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	1.2 Gbps ... 11.3 Gbps / 24.33 Gbps ... 25.78 Gbps
Maximum Receiver Power (Damage Threshold)	> 5 dBm

Ordering Information Table

Order Code	Compatibility code explanation	Wavelength code explanation
CSS-447A20xxxx-15	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-15: 1550nm

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