DATA SHEET

Transceivers
2.5G SFP EX
CSS-631A17

Properties

- Multi-protocol support
- Data rate 125 Mbps...2.67 Gbps
- Reach up to 40km
- Wavelength 1310nm
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 17 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	STM-16/4/1, 1G Ethernet, CPRI Option 1...3
Data rate standards	SDH STM-16/4/1
	1000BASE-EX
	CPRI Option 1 ... 3
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
Operating Wavelength Range	1290 nm ... 1330nm
Grid	None
Average launch power per lane	-2 dBm ... 3 dBm
Extinction Ratio	> 8.2 dB
Side Mode Suppression	> 30 dB
Supported Data rate	125 Mbps ... 2.67 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1260 nm ... 1620nm
Receiver Overload	> -1 dBm
Receiver Sensitivity	< -19 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -20 dBm
Receiver LOS Assert	> -35 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	125 Mbps ... 2.67 Gbps
Maximum Receiver Power (Damage Threshold)	> 5 dBm

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSS-631A17xxxx-13	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-13: 1310nm

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