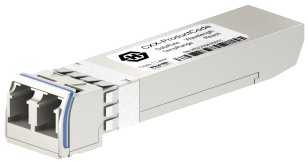
DATA SHEET

Transceivers
10G SFP+ LRM
CSM-904A09

Properties

- Multi-protocol support
- Data rate up to 11.3 Gbps
- Reach up to 220m
- Wavelength 1310nm
- LC/PC duplex connector
- Multimode fiber
- Temp. range 0 ... 70°C
- Link budget at least 9 dB



General data	
Form factor	SFP+
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	1/10G Ethernet, 1/2/4/8/10G FC, STM-64/OC-48, CPRI Option 2...8, OBSAI
Data rate standards	10GBASE-LRM
	CPRI Option 2 to 8
Media type	Multimode
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 ... 3.6 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 95 %

Transmitter Specifications	
Laser Type	FP
Operating Wavelength Range	1260 nm ... 1355nm
Grid	None
Average launch power per lane	-6.5 dBm ... 0.5 dBm
Extinction Ratio	> 3.5 dB

Transceivers

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Transmitter Specifications	
Side Mode Suppression	> 30 dB
Supported Data rate	1.0625 Gbps ... 11.3 Gbps

Receiver Specifications	
Operating Wavelength Range	1260 nm ... 1355nm
Receiver Overload	> 1.5 dBm
Receiver Sensitivity	< -10 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -11 dBm
Receiver LOS Assert	> -25 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	1.0625 Gbps ... 11.3 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSM-904A09xxxx-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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