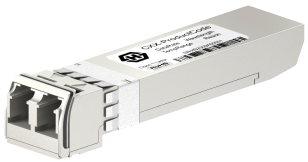
DATA SHEET

Transceivers
10G SFP+ SR
CSM-901A04

Properties

- Multi-protocol support
- SFF-8432 / SFF-8472 compliant
- Hot pluggable
- Data rate up to 11.3 Gbps
- Reach up to 550m
- Wavelength 850nm
- Multimode fiber
- Temp. range -40 ... 85°C
- Link budget at least 4 dB
- Fully ESD protected



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-SR/SW
	FC 800-M5/M6/M5E-LC-I
	CPRI Option 2 to 8
Media type	Multimode
Connector	LC/PC duplex
Modulation Format	NRZ
Built-in FEC	No
Management Interface	SFF-8432 / SFF-8472
CDR	none
Operation temperature	-40 °C ... 85 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 250 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 %

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Transmitter Specifications	
Laser Type	VCSEL
Operating Wavelength Range	840 nm ... 860nm
Grid	None
Average launch power per lane	-6 dBm ... -1 dBm
Extinction Ratio	> 3 dB
Side Mode Suppression	> 30 dB
Supported Data rate	1.0625 Gbps ... 11.3 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	840 nm ... 860nm
Receiver Overload	> 0.5 dBm
Receiver Sensitivity	< -10 dBm
Bit Error Rate at Receiver	1E-12
Maximum Optical Input Power per Lane (Overload)	0.5 dBm
Receiver LOS De-Assert	< -14 dBm
Receiver LOS Assert	> -30 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-901A04xxxx-85	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-85: 850nm

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