DATA SHEET

Transceivers

10 Gbps SFP+ Self Tunable DWDM ER

CSS-924A16

Properties

- Multi-protocol support
- Data rate up to 11.3 Gbps
- Reach up to 40km
- Self tunable over full C-band
- LC/PC duplex connector
- Singlemode fiber
- Temp. range -20 ... 85°C
- Link budget at least 16 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-ZR/ZW
	CPRI Option 2 to 8
Media type	Singlemode
Connector	LC/PC duplex
Modulation Format	NRZ
Built-in FEC	No
CDR	none
Operation temperature	-20 °C ... 85 °C
Supply voltage typical	3.135 V ... 3.465 V
Supply Current	< 760 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
Max. relative humidity range	0 % ... 85 %

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

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Transmitter Specifications	
Channel Spacing	100 GHz
Average launch power per lane	0 dBm ... 4 dBm
Extinction Ratio	> 8.2 dB
Side Mode Suppression	> 30 dB
Supported Data rate	1.0625 Gbps ... 11.3 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1528.77 nm ... 1566.31nm
Receiver Overload	> -2 dBm
Receiver Sensitivity	< -16 dBm
Bit Error Rate at Receiver	1E-12
Maximum Optical Input Power per Lane (Overload)	0 dBm
Receiver LOS De-Assert	< -19 dBm
Receiver LOS Assert	> -27 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	1.0625 Gbps ... 11.3 Gbps
Maximum Receiver Power (Damage Threshold)	> -2 dBm

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSS-924A16xxxx-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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