DATA SHEET

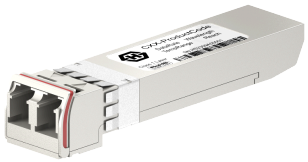
Transceivers

25 Gbps SFP28 Self Tunable DWDM LR

CSS-423A16

Properties

- Multi-protocol support
- Data rate 9.83...11.3 / 24.33...25.78 Gbps
- Reach up to 10km
- 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	SFP28
Product image	Actual product may differ from the images shown. Colours, 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, with bypass control (by HW pins or RS bits)
Operation temperature	-20 °C ... 85 °C
Supply voltage typical	3.13 V ... 3.47 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 %

Transceivers

25 Gbps SFP28 Self Tunable DWDM LR

CSS-423A16

Transmitter Specifications	
Laser Type	EML
Operating Wavelength Range	1567.13 nm ... 1529.16nm
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	> 3.5 dB
Side Mode Suppression	> 30 dB
Supported Data rate	9.83 Gbps ... 11.3 Gbps / 24.33 Gbps ... 25.78 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1567.13 nm ... 1529.16nm
Receiver Overload	> -2 dBm
Receiver Sensitivity	< -16 dBm
Bit Error Rate at Receiver	5E-5
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	9.83 Gbps ... 11.3 Gbps / 24.33 Gbps ... 25.78 Gbps
Maximum Receiver Power (Damage Threshold)	> -2 dBm

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSS-423A16xxxx-15	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-15: 1550nm

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P31854 / Date of publication: 28.10.2026 / uncontrolled copy