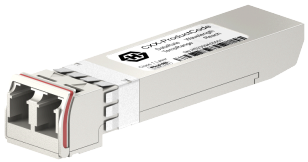
DATA SHEET

Transceivers
16G SFP28 DWDM LR
CSS-962A17

Properties

- 16G Fiber Channel
- Data rate 14.025 Gbps
- Reach up to 30km
- Any ITU DWDM channel between C18 and C61
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 18 dB (w/o dispersion penalty)



General data	
Form factor	SFP28
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	16G Fiber Channel
Data rate standards	Fiber Channel 16G
Media type	Singlemode
Connector	LC/PC duplex
Modulation Format	NRZ
Built-in FEC	No
CDR	Double
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 550 mA
Power consumption	< 1.8 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. supply voltage range	-0.3 V ... 3.6 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 95 %

Transmitter Specifications	
Laser Type	EML
Grid	DWDM 100GHz C-band
Available Wavelength in nm	Any ITU DWDM channel between C18 and C61
Average launch power per lane	0 dBm ... 5 dBm

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Transmitter Specifications	
Dispersion Penalty	< 5 dB
Dispersion range	-150 ps/nm ... 550ps/nm
Extinction Ratio	> 6 dB
Side Mode Suppression	> 30 dB

Receiver Specifications	
Receiver Type	APD
Operating Wavelength Range	1260 nm ... 1620nm
Receiver Overload	> -7 dBm
Receiver Sensitivity	< -18 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -24 dBm
Receiver LOS Assert	> -35 dBm

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSS-962A17xxxx-ww	"xxxx" is an alphanumerical string, describing the compatibility. "0000" means no special coding to ensure compatibility with a special switch type.	-ww: DWDM channel chosen from the table at the end

Channel Allocation							
Code	ITU Number	Frequency (GHz)	Wavelength (nm)	Code	ITU Number	Frequency (GHz)	Wavelength (nm)
-18	C18	191800	1563.05	-40	C40	194000	1545.32
-19	C19	191900	1562.23	-41	C41	194100	1544.53
-20	C20	192000	1561.42	-42	C42	194200	1543.73
-21	C21	192100	1560.61	-43	C43	194300	1542.94
-22	C22	192200	1559.79	-44	C44	194400	1542.14
-23	C23	192300	1558.98	-45	C45	194500	1541.35
-24	C24	192400	1558.17	-46	C46	194600	1540.56
-25	C25	192500	1557.36	-47	C47	194700	1539.77
-26	C26	192600	1556.55	-48	C48	194800	1538.98
-27	C27	192700	1555.75	-49	C49	194900	1538.19
-28	C28	192800	1554.94	-50	C50	195000	1537.40
-29	C29	192900	1554.13	-51	C51	195100	1536.61
-30	C30	193000	1553.33	-52	C52	195200	1535.82
-31	C31	193100	1552.52	-53	C53	195300	1535.04
-32	C32	193200	1551.72	-54	C54	195400	1534.25
-33	C33	193300	1550.92	-55	C55	195500	1533.47
-34	C34	193400	1550.12	-56	C56	195600	1532.68
-35	C35	193500	1549.32	-57	C57	195700	1531.90
-36	C36	193600	1548.51	-58	C58	195800	1531.12
-37	C37	193700	1547.72	-59	C59	195900	1530.33
-38	C38	193800	1546.92	-60	C60	196000	1529.55
-39	C39	193900	1546.12	-61	C61	196100	1528.77

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