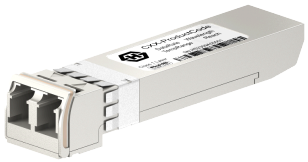
DATA SHEET

Transceivers
10G SFP+ DWDM ZR
CSS-877A22

Properties

- Multi-protocol support
- Data rate up to 11.3 Gbps
- Reach up to 80km
- Any ITU DWDM channel between H17 und H60
- LC/PC duplex connector
- Singlemode fiber
- Temp. range -40 ... 85°C
- Link budget at least 23 dB (w/o dispersion penalty)



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	-40 °C ... 85 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 490 mA
Power consumption	< 1.6 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. supply voltage range	-0.5 V ... 4 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 95 %

Transmitter Specifications	
Laser Type	EML
Grid	DWDM 50GHz H-band
Available Wavelength in nm	Any ITU DWDM channel between H17 und H60

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Transmitter Specifications	
Average launch power per lane	-1 dBm ... 4 dBm
Dispersion Penalty	< 3 dB
Dispersion range	-400 ps/nm ... 1600ps/nm
Extinction Ratio	< 8.2 dB
Side Mode Suppression	> 30 dB
Supported Data rate	1.0625 Gbps ... 11.3 Gbps

Receiver Specifications	
Receiver Type	APD
Operating Wavelength Range	1260 nm ... 1620nm
Receiver Overload	> -6 dBm
Receiver Sensitivity	< -23 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -27 dBm
Receiver LOS Assert	> -35 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
CSS-877A22xxxx-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

Code	ITU Number	Frequency (GHz)	Wavelength (nm)	Code	ITU Number	Frequency (GHz)	Wavelength (nm)
-17	H17	191.75	1563.45	-39	H39	193.95	1545.72
-18	H18	191.85	1562.64	-40	H40	194.05	1544.92
-19	H19	191.95	1561.83	-41	H41	194.15	1544.13
-20	H20	192.05	1561.01	-42	H42	194.25	1543.33
-21	H21	192.15	1560.20	-43	H43	194.35	1542.54
-22	H22	192.25	1559.39	-44	H44	194.45	1541.75
-23	H23	192.35	1558.58	-45	H45	194.55	1540.95
-24	H24	192.45	1557.77	-46	H46	194.65	1540.16
-25	H25	192.55	1556.96	-47	H47	194.75	1539.37
-26	H26	192.65	1556.15	-48	H48	194.85	1538.58
-27	H27	192.75	1555.34	-49	H49	194.95	1537.79
-28	H28	192.85	1554.54	-50	H50	195.05	1537.00
-29	H29	192.95	1553.73	-51	H51	195.15	1536.22
-30	H30	193.05	1552.93	-52	H52	195.25	1535.43
-31	H31	193.15	1552.12	-53	H53	195.35	1534.64
-32	H32	193.25	1551.32	-54	H54	195.45	1533.86
-33	H33	193.35	1550.52	-55	H55	195.55	1533.07
-34	H34	193.45	1549.72	-56	H56	195.65	1532.29
-35	H35	193.55	1548.91	-57	H57	195.75	1531.51
-36	H36	193.65	1548.11	-58	H58	195.85	1530.72
-37	H37	193.75	1547.32	-59	H59	195.95	1529.94
-38	H38	193.85	1546.52	-60	H60	196.05	1529.16

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