



High Capacity Fiber Optic Solutions

Part Number **S-CS08-ch**
S-CE08-ch

Application

- 1 Gbps Ethernet,
- OC-48 & STM-16 systems
- 1G & 2G Fiber Channel

Features

- Industry standard SFP form factor
- Data rate of 1 Gbps to 2.5 Gbps operation
- 18 CWDM wavelengths available
- 28 dB minimum system gain
- 80 km nominal reach



Transmitter Characteristics

Parameter	Min	Max	Unit	Notes
Average Output Power	0	+5	dBm	Launched into single mode fiber
Center Wavelength	-6.5	+6.5	nm	Relative to channel center wavelength
Spectral Width		1	nm	-20 dB points
Extinction Ratio	9		dB	

Receiver Characteristics

Parameter	Min	Max	Unit	Notes
Receiver Sensitivity		-28	dBm	Measured at BER $\leq 1 \times 10^{-12}$
Receiver Overload	-9		dBm	
Loss of Signal Assert	-40		dBm	
Loss of Signal De-Assert		-30	dBm	

Environmental & Electrical Characteristics

Parameter	Min	Max	Unit	Notes
Storage Temperature Range	-40	+85	°C	
Operating Temperature Range	0	+70	°C	
Humidity	5	85	%	
Max Power Supply Voltage	-0.5	3.60	VDC	
Recommended Supply Voltage	3.13	3.47	VDC	
Data rate	1.0	2.5	Gbps	1.0625, 1.125, 2.1250, 2.488 GHz nominal clock rates

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Wavelength Selection

ch Code	Wavelength	Nebula Compatible Multiplexers						
		V-ADM1-ch	V-CWDM16	V-CWDM8	V-CWDM4	V-4WM	V-CWDM14	V-CWDM17
S-CS08-ch								
61	1611 nm	V-ADM1-61	√	√			√	(2)
59	1591 nm	V-ADM1-59	√	√			√	(2)
57	1571 nm	V-ADM1-57	√	√	√		√	√
55	1551 nm	V-ADM1-55	√	√	√	√ ⁽³⁾	√	√
53	1531 nm	V-ADM1-53	√	√	√		√	√
51	1511 nm	V-ADM1-51	√	√	√		√	√
49	1491 nm	V-ADM1-49	√	√		√	√	√
47	1471 nm	V-ADM1-47	√	√		√	√	√
S-CE08-ch								
45	1451 nm	V-ADM1-45	√				√	√
43	1431 nm	V-ADM1-43	√				√	√
41	1411 nm	V-ADM1-41	√				√	√
39	1391 nm	V-ADM1-39	√				√	√
37	1371 nm	V-ADM1-37	√				√	√
35	1351 nm	V-ADM1-35	√					√
33	1331 nm	V-ADM1-33	√					√
31	1311 nm	V-ADM1-31	√				√ ⁽¹⁾	√ ⁽¹⁾
29	1291 nm	V-ADM1-29						√
27	1271 nm	V-ADM1-27						√

- (1) Multiplexer supports wide 1310 lasers. 1271 nm to 1351 nm CWDM lasers fit within this bandwidth, but only one wavelength may be used at any time.
- (2) One of 1591 nm and 1611 nm may be used as these channels are combined in this multiplexer.
- (3) Multiplexer supports wide 1550 lasers. 1511 nm to 1591 nm CWDM lasers fit within this bandwidth, but only one wavelength may be used at any time.