

NETWORK ACCESSORIES DATA SHEET

1RU/2RU Dispersion Compensation Module



Champion ONE's Dispersion Compensation Module (DCM) is a cost-effective device that will optimize your existing standard single mode fiber (SMF-28). This product is designed to counteract the dispersion common in the 1525-1565nm wavelength range. Without compensatory measures, dispersion can severely limit transmission distance and bandwidth and lead to a high error rate.

This DCM is ideal for long-distance and high-speed links, especially in DWDM networks.

Technical Specifications

OPERATING WAVELENGTHS

1525 – 1565nm

CONNECTOR TYPE

LC/UPC

FIBER TYPE

G.652 standard single mode fiber

PRODUCT DIMENSIONS

1RU (WxDxH): 440mm x 280mm x 45mm

2RU (WxDxH): 440mm x 280mm x 90mm

WARRANTY

All feature a limited 5-year warranty

C1 Part Number	Description	Optical Fiber Length (km)*	Dispersion @1550nm (ps/nm)	Insertion Loss (max, dB)	PMD (max, ps)	Residual Dispersion Slope (min/max, nm ⁻¹)	PDL (max, dB)
ZS-DCM-1RU-020-C-L-R	Dispersion Compensation Module, 1RU, 20km, C band, LC UPC, 19" rack mount	20	-340±3%	2.9	0.6	-1.30 / -0.66	0.1
ZS-DCM-1RU-040-C-L-R	Dispersion Compensation Module, 1RU, 40km, C band, LC UPC, 19" rack mount	40	-680±3%	4.8	0.8	-2.60 / -1/33	
ZS-DCM-1RU-060-C-L-R	Dispersion Compensation Module, 1RU, 60km, C band, LC UPC, 19" rack mount	60	-1020±3%	6.8	1.0	-3.95 / -2.00	
ZS-DCM-1RU-080-C-L-R	Dispersion Compensation Module, 1RU, 80km, C band, LC UPC, 19" rack mount	80	-1360±3%	8.7	1.2	-5.20 / -2.67	
ZS-DCM-1RU-100-C-L-R	Dispersion Compensation Module, 1RU, 100km, C band, LC UPC, 19" rack mount	100	-1700±3%	10.7	1.3	-6.50 / -3.30	
ZS-DCM-2RU-120-C-L-R	Dispersion Compensation Module, 2RU, 120km, C band, LC UPC, 19" rack mount	120	-2040±3%	12.9	1.4	-7.80 / -4.10	
ZS-DCM-2RU-140-C-L-R	Dispersion Compensation Module, 2RU, 140km, C band, LC UPC, 19" rack mount	140	-2380±4%	14.8	1.5	-9.12 / -4.80	
ZS-DCM-2RU-160-C-L-R	Dispersion Compensation Module, 2RU, 160km, C band, LC UPC, 19" rack mount	160	-2720±4%	16.8	1.6	-10.40 / -5.20	

*Rated distances measured at 10G data rates. For rated distances at higher data rates, contact Champion ONE.