DATA SHEET

Multi-Rate 16 Channel Open Line System (40 or 80km)

Champion ONE's Multi-Rate 16 Channel Open Line System is a complete, high-reliability active DWDM line system for long-distance, high-bandwidth applications. It provides all of the optical grooming necessary for transmission of up to 16x channels of multiple data rates while maintaining the simplicity of automated zero-touch provisioning.

The 16 channel multi-rate system comes in two versions: 40km and 80km. Both versions are composed of a mux/demux, optical amplifiers, dispersion compensation modules, and an optical supervisory channel.

Key Features and Benefits

• Zero-Touch Provisioning

• Supports up to 16 DWDM channels, at 1G, 2.5G, 10G, 25G, 40G, 50G, or 100G data rates

• Tunable dispersion compensation module

• Link distance measurement and fault location with OTDR

• Remote monitoring of far end unit

• Performance Monitoring to track max/min/average of key parameters on 15min/daily/weekly basis

• CLI, Web GUI interface, SNMP v2/v3

• Redundant power supplies with hitless swap

Technical Specifications

Parameter	16 Channel Open Line System
DWDM Channel Count	16
DWDM Channel Wavelengths (min/max, THz)	192.5 / 194.0, 100GHz spacing (ITU ch. 25 / 40)
Average Input Power per Wavelength (min/max, dB)	-11 / -8
Tx Launch Power/Wavelength (min/max, dB)	0.3 / 3.7
Link Loss Budget (min/max, dB)	18
Output OSNR (min, dB)	31.0 (tested under transmit signal OSNR 58dB)
Output Power/Wavelength (min/max, dB)	-2.3 / 1.4
Input Voltage Range (min/max, VAC)	90 / 264
Input Frequency Range (min/max, Hz)	47 / 63
Current Consumption (A)	2 (@ 90 VAC) 0.7 (@ 264 VAC)
Power Consumption (W)	50
Operating Temperature (min/max, °C)	0 / 40
Storage Temperature (min/max, °C)	-40 / 70
Operating Humidity (min/max, %)	5 / 95
Dimensions (WxDxH, in) Faceplate Dimensions (WxH, in)	22" x 16 7/8" x 1 3/4" 19" x 1 3/4"
Software Interface	CLI Web Craft Terminal SNMP v2 or v3
Optical Performance Metrics	EDFA booster amplifier operating parameters VOA settings Dispersion compensation settings EDFA pre-amplifier operating parameters

Ordering Information

C1 Part Number	Description
ZAD-16-TDC-40-V-X-M	Multi-Rate 16ch Active DWDM Open Line System, 0-40km (power supply sold separately)
ZAD-16-TDF-80-V-X-M	Multi-Rate 16ch Active DWDvM Open Line System, 40-80km (power supply sold separately)
ZAD-8-X-X-X-AC-X	AC Power Supply
ZAD-8-X-X-X-DC-X	DC Power Supply
ZAD-8-X-X-X-RLS-X	Slide Rails for mounting
SERVICE AND SUPPORT	
ZAD-247-W-S	Hotline Support: 24 hours/day, 7 days/week
ZAD-3-W-S	36-Month Extended Warranty (inclusive of standard 12-month warranty period)
ZAD-5-W-S	60-Month Extended Warranty (inclusive of standard 12-month warranty period)

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