



CHAMPION
O.N.E.™

INTELLIPOINT™



40 CHANNEL 100G PAM4 OPEN LINE SYSTEM

UP TO 120KM

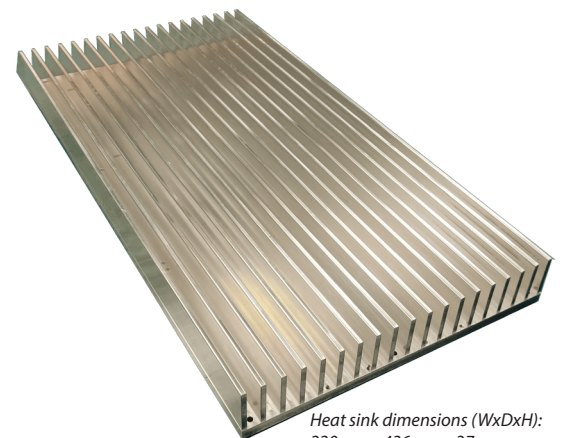
PRODUCT OVERVIEW

Champion ONE's **40 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 40x 100G DWDM PAM4 channels while maintaining the simplicity of automated zero-touch provisioning.

The 40 channel system comes in two versions: 80km and 120km. Both versions are composed of a mux/demux, optical amplifiers, dispersion compensation modules, and an optical supervisory channel. The SR spans distances from 5km to 80km, while the LR reaches 60km to 120km via additional gain from a Raman counter pump.

KEY FEATURES AND BENEFITS

- Zero-Touch Provisioning
- Turns up within 4-5 minutes
- Supports between 1 and 40 PAM4 QSFP28 channels
- Automatic link distance measurement and fault location with OTDR
- Automatically performs all the necessary dispersion compensation adjustments based on integrated OTDR input
- Automatic input balancing via VOA integration into mux to optimize distance
- Fiber Integrity Monitor System for laser safety, enabling automatic laser shutdown (ALS) in the event of a fiber break or connector disconnect, and automatic laser restart (ALR) when the condition is recovered
- 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 management interfaces
- Field-replaceable optical service channel SFP
- Dual field-replaceable power supplies (110VAC or -48VDC)
- 3 field-replaceable fans for front-to-back airflow for multiple cooling options for superior performance
- 2RU enclosure including 1RU internal heat-sink (see Figure A at right) for improved performance and durability



Heat sink dimensions (WxDxH):
220mm x 436mm x 37mm

TECHNICAL SPECIFICATIONS

Parameter	80km Version	120km Version
DWDM Channel Count (min/max)	1 / 40	
DWDM Channel Wavelengths (min/max, THz)	192.0 / 195.9 (ITU ch. 20 / 59)	
Client Interface Average Input Power/Channel (min/max, dBm)	-8 / -5	
Client Interface Average Input Power/Lane (min/max, dB)	-11 / -8	
Link Loss Budget (min/max, dB)	1 / 16 ¹	13 / 23 ¹
Client Interface Input OSNR (dB)	58	
Client Interface Output OSNR (dB)	30.5	
Client Interface Output Power/Channel (min/max, dB)	-2 / 6	
Input Voltage Range (min/max, VAC)	90 / 264	
Input Frequency Range (Hz)	47 / 63	
Input Current @ 90 VAC (A)	0.7	
Input Current @ 264 VAC (A)	2	
Operating Temperature Range (min/max, °C)	0 to 70	
Storage Temperature Range (min/max, °C)	-40 to 70	
Dimensions (WxDxH, mm)	428.2 x 919 x 88.1 (482.6mm wide w/ brackets)	

1. Includes 3dB EOL margin.

ORDERING INFORMATION

C1 Part Number	Description
ZAD-40-TDC-120-V-AC-P	40 ch Active DWDM Open Line System, 120km, AC only, PS included, E2000 connectors on OSP
ZAD-40-TDC-80-V-AC-P	40 ch Active DWDM Open Line System, 80km, AC only, PS included
ZAD-40-X-X-X-AC-X	AC Power Supply for 40 ch OLS (spare/replacement)
ZAD-40-X-X-X-FAN-X	Fan module for 40 ch OLS (spare/replacement)
ZAD-40-X-X-X-RLS-X	Slide (Rails) for 40 ch OLS

SERVICE AND SUPPORT

Running a network or selling network services and products can be a highly competitive endeavor. To help differentiate your business and enable you to provide more cost effective infrastructure, you require a partner that provides competitive pricing and vertical market expertise. At Champion ONE we understand your needs. We leverage our skills and relationships to:

- Provide network design services and help you explore alternative network designs you may not have considered
- Provide technical and sales support when you need it
- Accept orders for same day shipment up to 3:00 PM EST
- Offer some of the longest warranties in the industry
- Offer a 30-day return policy
- Build a long-term supplier partnership with you

You can rely on Champion ONE, not only for the highest levels of availability for the products you need, but the technical support, customer service and cost consideration you deserve. Our goal is your complete satisfaction.

THE CHAMPION ONE COMMITMENT



For over 25 years, we at Champion ONE have been delivering great value to our customers through high-quality products at competitive prices. As one of the leading suppliers of compatible optical transceivers and a major supplier of optical networking solutions, we take great pride in building long-term relationships as a trusted partner. In this spirit, everything we bring to market bears the Champion ONE Shield™, which strengthens this trust through five core promises: Performance, Availability, Compatibility, Protection, and Value.

GLOBAL HEADQUARTERS

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