

# **Modular TDCM+EDFA Platform**

**Product Brief** 

# Modular TDCM+EDFA Platform For 100G DWDM PAM4 Interconnects (40 or 100km)



100km Model Shown

### **Product Description**

Alpine's Modular TDCM+EDFA Platform is a 1RU packaged system designed for 16-channel multiplexed 100G QSFP28 DWDM PAM4 data center interconnects up to 100km distance. The main frame accepts TDCM and EDFA line cards, pluggable redundant power supplies, and pluggable cooling fans offering customers a range of versatile configurations to address their specific system requirements including bidirectional links. Automatic set-and-forget dispersion tuning optimizes link performance and makes deployment fast, easy, and reliable. Mixed module types and data rates are also supported, including Alpine's 40G & 50G DWDM PAM4 transceivers and NRZ DWDM optics such as 1G SFP, 10G SFP+, and 25G SFP28.

#### **Features**

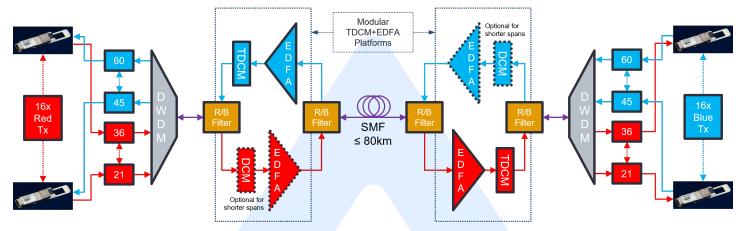
- 19-inch 1RU Main Frame with redundant power supply cards & pluggable cooling fan cards
- Automatic dispersion tuning function (requires 1 pair of Alpine 100G QSFP28 DWDM modules)
- Slope-matched dispersion compensation for G652 single-mode fiber
- Supports up to 16 DWDM channels on the ITU 100GHz grid
- Red-band or blue-band duplex models support links up to 100km distance
- Bi-directional model supports links up to 40km distance
- Command Line Interface (CLI) and SNMP via RJ45 and Mini-USB ports



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## Application Case: 1.6T Single-Fiber BiDi Link



Asx516040RB units are installed at both ends of a 40km fiber span. Red/Blue filters separate opposing red-band & blue-band DWDM signals for amplification and dispersion compensation. Up to 16 channels (1.6Tbps) are supported in each direction.

## **Ordering Information**

Standard Models	Link Type	ITU Channels	Max Distance	Power Supply (x)
ASx516040R1	Duplex	C21-C36	40km	(1) Dual 110/240V AC (2) Dual -48V DC (3) 1 AC & 1 DC
ASx516100R2	Duplex	C21-C36	100km	
ASx516040B1	Duplex	C45-C60	40km	
ASx516100B2	Duplex	C45-C60	100km	
ASx516040RB	Bi-directional	C21-C36/C45-C60	40km	

The modular system can be configured with any combination of TDCM and EDFA line cards. TDCM line cards support 40 channels. Contact Alpine Optoelectronics for more information if your application differs from the standard models described in this document.

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