



Integrated DWDM Device Product Description

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Integrated DWDM Device Product description

Version	Date	Author	Reviewer	Notes
V1.0	2017/05/12			Not open to the third party

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1 Overview

1.1 Product Description

This integrated DWDM system based on WDM technology and is developed by our company. It provides 80G,160G,240G and 400G capacity to Eliminate the complex optical layer configuration, reduce redundant optical fiber connection, provide similarly switch function, support fast network construction and maintain easily. This solution perfectly matches the MAN transmission needs, to solve the customer's demands to the greatest extent.

Figure 1-1 Front Panel



1.2 Feature

The equipment has the following features:

1. 1U rack type equipment, high integration design
2. Single service module support 8 channel service access
3. Support expansion service card for system upgrade
4. Single channel access rate up to 15Gbit/s, and self-adaptive rate of 15G or below all types of service access (such as: GE/10GE LAN, 10GE WAN, STM-16/64, FC1G/2G/4G/8G/10G/16G etc.)

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5. The single device supports the maximum 400G transmission capacity, and can be flexibly matched with 80G/160G/240G/400G equipment according to service requirements
6. Support built-in BA/PA card to transmit further distance
7. Complete physical isolation of service ports, transparent transmission, improve network security
8. Uplink support single core or two cores, maximum saving cable resources
9. In-band monitoring channel and connecting optical network to realize the whole network SNMP management.
10. Dual server power supply, support 1+1 hot standby
11. Simple networking, no change the original network topology and no complex optical layer design

2 Technical Specifications

2.1 System Interface

Figure 2-1 System Interface---Front panel

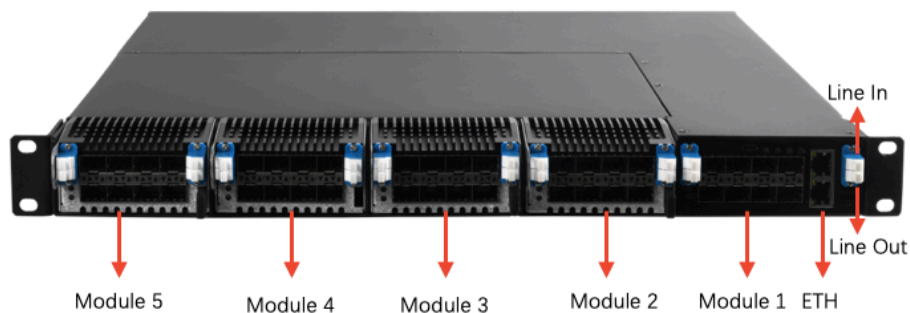


Figure 2-2 System Interface---Front panel

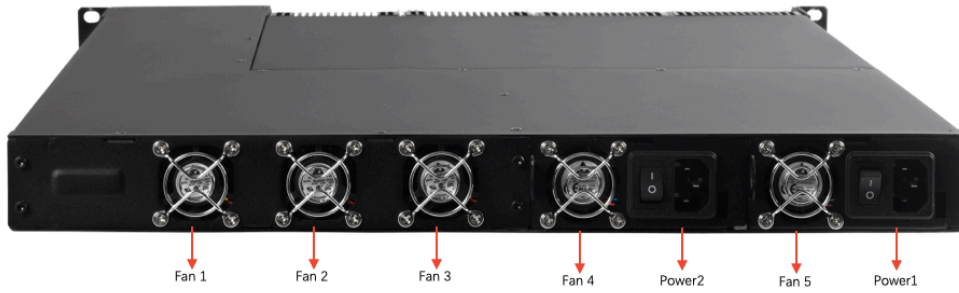
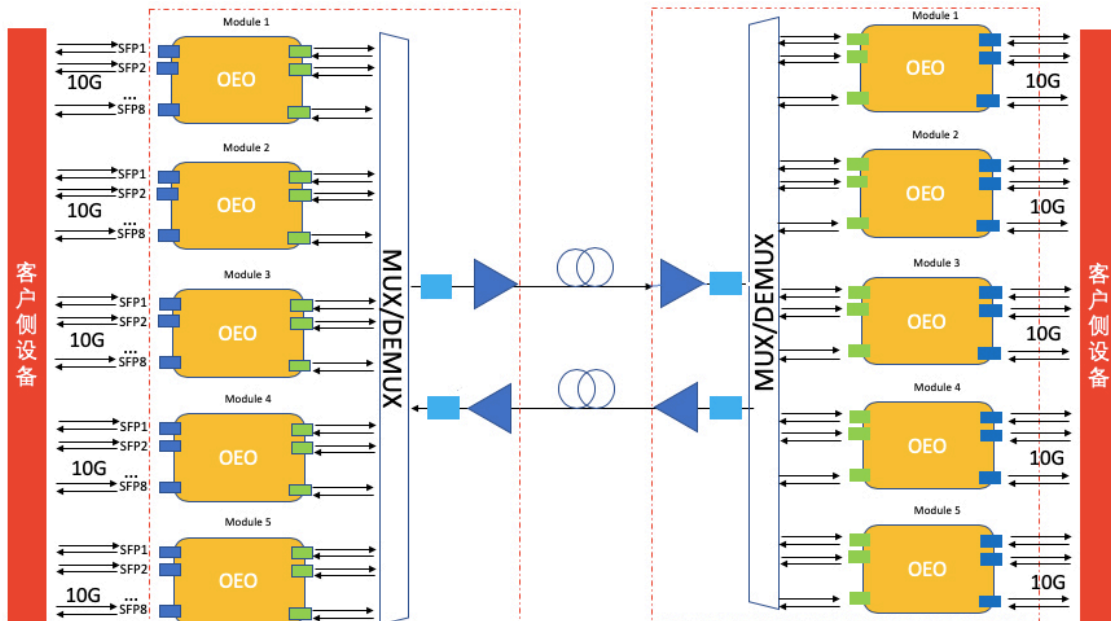


Table 2-1 Panel Definition

Type	Function	Remark
Module	Service Module, One module max 80G	Total 5 service module , 2~5module can be plug out, each module can connected with jumper in the front panel.
ETH	Management port	RJ45
Power	AC or DC	Optional, 1+1 protection

2.2 Working Principle Diagram

Figure 2-3 400G flew mode diagram



Module1~5 can combined by jumper from front panel, After integrating 40-wave 10G service, appropriate amplifier and dispersion compensation unit can be selected according to the line distance and attenuation.

2.3 Product Specifications

Table 2-2 Specification

Parameter	Technical Index
Size	1U: 44 mm ×440 mm ×560 mm
Transmission capacity	One module max 80G , Device max 400G (5Module)
Support Access Type	8 channel 1.25G~15G full-service access, including STM-16/64, OC48/192, GE, 10GELAN,10GEWAN FC1G/2G/4G/8G/10G/16G,etc.
Network topology	Point to point Symmetric transmission

Protection	Network level protection: 1+1
	Device level: Power and Fan backup
Installation	19" or 21" Rack or 600mm Cabinet
Heat Dissipation	FAN
Power mode	AC: 90 ~ 260V , DC:-36V~-72V, 1+1 Protection
Power Dissipation	300W (Typical)

3 Environmental Requirements

Table 3-1 Environmental Parameters

Item	Min.	Typ.	Max.	Unit
Operation Temperature	-5	-----	+45	°C
Storage Temperature	-40	-----	+80	°C
Operation Humidity*	10	-----	90	%
Storage Humidity	10	-----	90	%

*No condensation