

DWDM & Managed Chassis datasheet

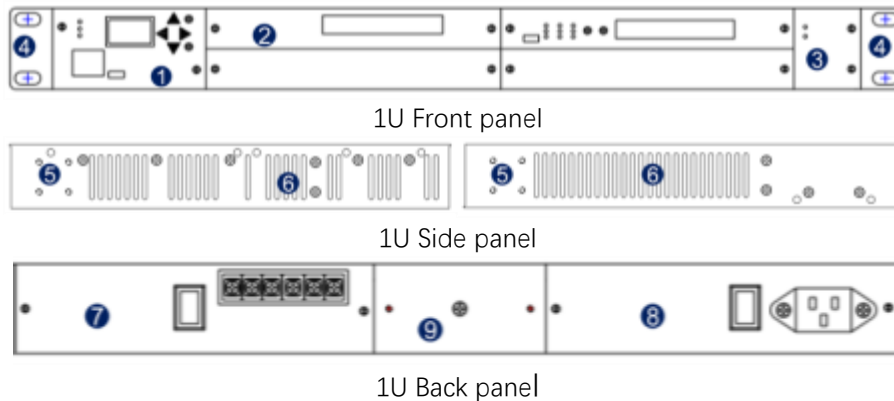
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1. 1U/2U/4U Managed Chassis

1.1 Chassis appearance

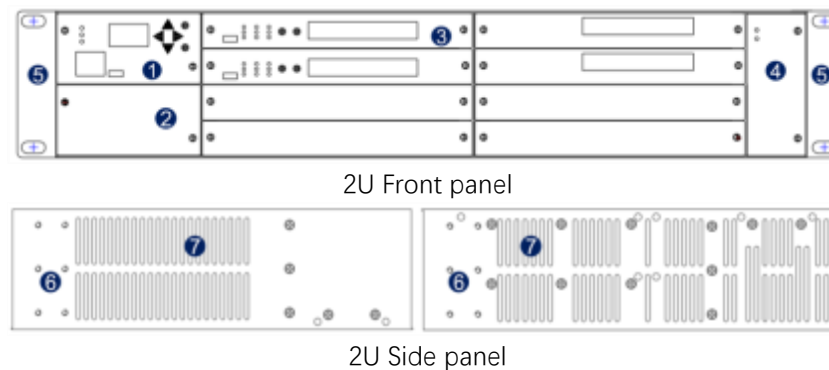
1.1.1 1U Chassis



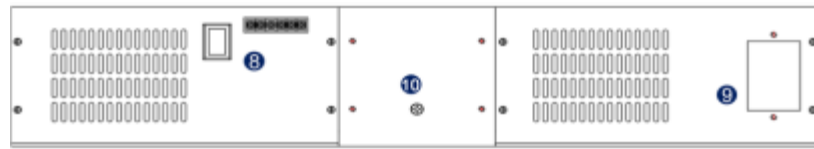
Description:

- ① Main control card slot
- ② Service card slot, maximum support 4 service board cards, our service board cards all can be mixed interpolation and hot swap.
- ③ Fan slot, Support for fan hot swap and independent replacement.
- ④ Stretchable lug
- ⑤ Lug instillation position
- ⑥ Side vent
- ⑦ Power 1 slot, plug in AC/DC power supply, support hot swap
- ⑧ Power 2 slot, plug in AC/DC power supply, support hot swap
- ⑨ Grounding screw

1.1.2 2U Chassis



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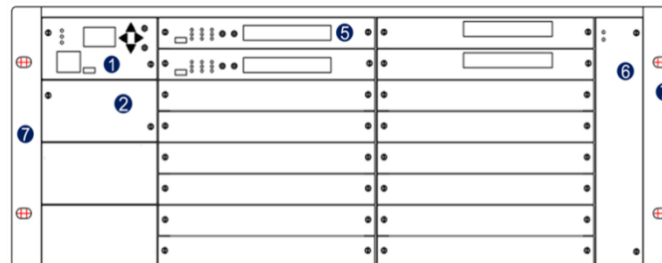


2U Back panel

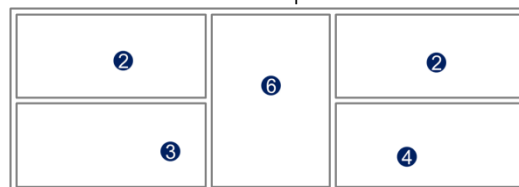
Description:

- ① Main control card slot
- ② Expansion slot, plug in 8 Ethernet switch cards or other cards
- ③ Service card slot, maximum support 8 service board cards, all our service board cards can be mixed interpolation and hot swap.
- ④ Fan slot, Support for fan hot swap and independent replacement
- ⑤ Stretchable lug
- ⑥ Lug instillation position
- ⑦ Side vent
- ⑧ Power 1 slot, plug in AC/DC power supply, support hot swap
- ⑨ Power 2 slot, plug in AC/DC power supply, support hot swap
- ⑩ Grounding screw

1.1.3 4U Chassis



4U Front panel



4U Back panel

Explain:

- ① Main control card slot
- ② Expansion slot, plug in 8 Ethernet switch cards or other cards
- ③ Power 1 slot, plug in AC/DC power supply, support hot swap
- ④ Power 2 slot, plug in AC/DC power supply, support hot swap
- ⑤ Service card slot, maximum support 16 service board cards, all our service board cards can be mixed interpolation and hot swap

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- ⑥ Fan slot, Support for fan hot swap and independent replacement
- ⑦ Stretchable lug

1.2 Chassis Component

1.2.1 NMU

Main control card panel

- ① Equipment status indicator: P1(Power1), P2(Power2), RUN
- ② HD dual color LCD display screen
- ③ Operation keys
- ④ Ethernet communication interface
- ⑤ Micro USB equipment upgrade interface
- ⑥ Optical transceiver slot (Support 100/1000Mbps SFP)
- ⑦ Optical transceiver working status indicator



Equipment management

- Equipment status, card performance can be monitored
- Card parameters can be settled
- Support band network management
- Supports SNMP, Telnet, Client

1.2.2 Chassis components ordering information

TN10	1U Chassis, 482.6W×300D×44.5H mm (with lug)
TN20	2U Chassis, 482.6W×300D×86H mm (with lug)
TN40	4U Chassis, 482.6W×300D×176H mm (with lug)
PW-AC-50	1U 100~240V AC power supply
PW-AC-100	2U 100~240V AC power supply
PW-AC-200	4U 100~240V AC power supply
PW-DC-50	1U 36~72V DC power supply
PW-DC-100	2/4U 36~72V DC power supply
NMU-ES	Communication managed card, with LCD、10/100M Ethernet port、SFP port
FAN-1	1U FAN
FAN-2	2U FAN
FAN-4	4U FAN
BP-S	Short front panel
BP-1	1 slot front panel
BP-2	2 slots front panel
BP-P-1	1U power supply panel
BP-P-2	2U/4U power supply panel

1.3 Machine frame correlation parameter

	Parameters	Unit	Specifications
Environmental parameter	Working temperature	°C	-10~ 60°C
	Storage temperature	°C	-20°C~ 75°C
	Relative temperature	°C	5% ~ 95% No condensation
Size	1U	mm	482.6W×300D×44.5H (with lug)
	2U	mm	482.6W×300D×86H (with lug)
	4U	mm	482.6W×300D×176H (with lug)
Power Supply	AC	V	100~240, 50~60hz
	DC	V	36~72
Consumption	1U	W	< 50 (Max)
	2U	W	< 100 (Max)
	4U	W	< 200 (Max)

2. DWDM card

Dense wavelength division multiplexer

Product Description

DWDM multiplex optical signals of different ITU-T DWDM wavelengths to a single optical fiber for transmission at the sending end; At the receiving end, the mixed signals in the optical fiber are decomposed into signals of different ITU-T DWDM wavelengths and connected to the corresponding receiving device. This multilayer dielectric membrane DWDM wavelength division multiplexer has the characteristics of mature technology, low insertion loss and good environmental stability..

Product Applications

- DWDM network



Product Features

- Low insertion loss
- Low polarization loss
- High-channel isolation
- High reliability
- Single board card max supports 9CH of dual fiber or 18CH of single fiber

■ Performance Index

Parameters	Unit	Specifications		
Wavelength Range		ITU channels 186.6 to 196.1 THz		
Channel Center Wavelength	nm	ITU channels		
Channel Spacing	Ghz	100		
Channel Pass band (@-0.5dB)	nm	0.22		
Channel No.	λ	4	8	16
Insertion Loss	dB	≤ 2.5	≤ 3.5	≤ 4.8
Adjacent Channel Isolation	dB	≥ 30		
Non-adjacent Channel Isolation	dB	≥ 45		
Wavelength thermal stability	nm/ $^{\circ}\text{C}$	≤ 0.002		
Insertion loss thermal stability	dB/ $^{\circ}\text{C}$	≤ 0.005		
PDL	dB	≤ 0.1		
Polarization mode dispersion	ps	≤ 0.1		
Directivity	dB	≥ 50		
Return loss	dB	≥ 45		
Optical Power	mW	≤ 300		
Consumption	W	< 1		

Note: default connector is LC/UPC

■ Ordering Information

MD-X-XX-X-XX

Item code	-	Type	-	multiplexing	-	Channel	-	Upgrade port	-	Connector
MD		D: DWDM		S: single fiber		02: 2CH		W: with		LU: LC/UPC
				D: dual fiber		-		N: without		LA: LC/APC
						16: 16CH				