

AWG & Managed Chassis datasheet

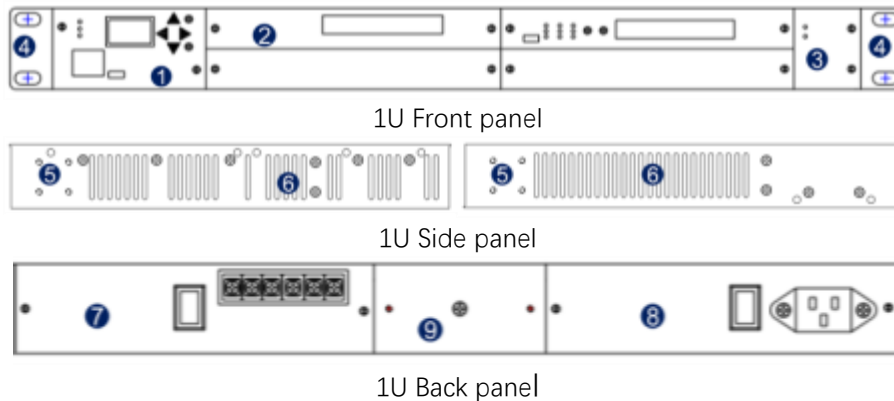
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1. 1U/2U/4U Managed Chassis

1.1 Chassis appearance

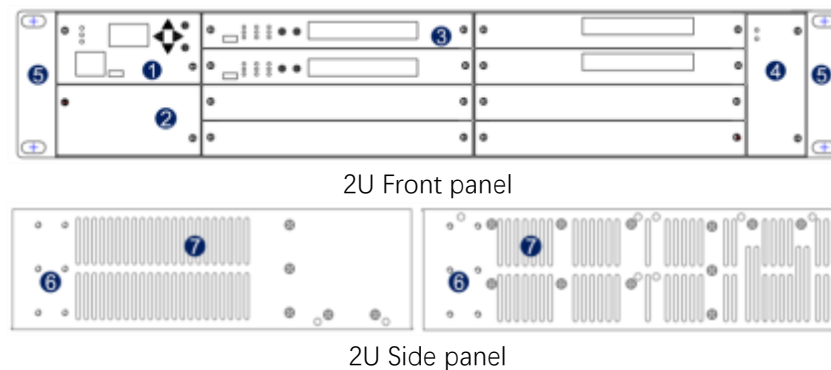
1.1.1 1U Chassis



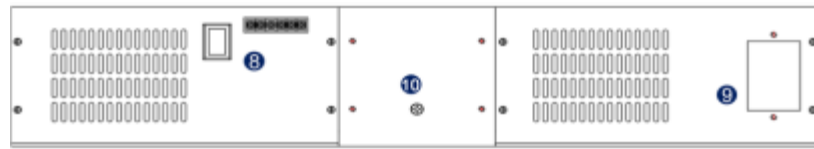
Description:

- 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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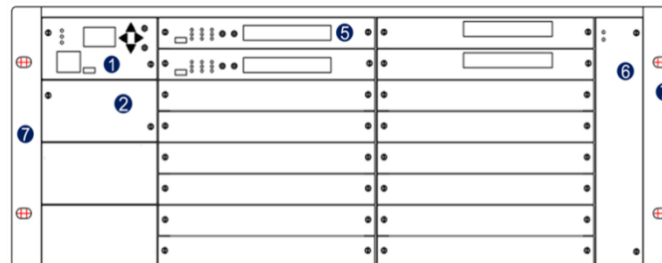


2U Back panel

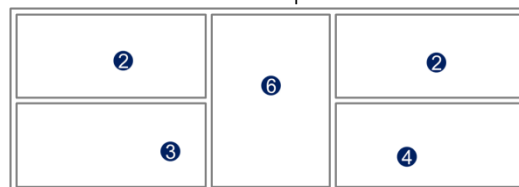
Description:

- 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. AWG card

Thermal flat-top Arrayed Waveguide Grating



■ Product Description

This product is a thermal flat-top arrayed waveguide grating multiplexer, mainly used in DWDM systems. At the transmitting end, optical signals of different ITU-T DWDM wavelengths are multiplexed into a single optical fiber for transmission; at the receiving end, the mixed signal in the optical fiber is decomposed into signals of different ITU-T DWDM wavelengths, and connected to corresponding receiving devices. The product is low insertion loss, high channel insertion loss consistency, and stable insertion loss. This product requires an external power supply.

■ Product Applications

- DWDM network

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Product Features

- Low insertion loss
- Low polarization dependent loss
- High channel isolation
- Good environmental stability
- Single card max supports single fiber 40CH

Performance Index

Parameters	Notes	Specifications		Units
		Min	Max	
Channels		40		Ch
Channel Spacing		100		GHz
Reference Pass-band	Relative to ITU Grid	± 0.1		nm
ITU Frequency	On ITU grid in C-band Even	196.00	192.10	THz
ITU Wavelength	On ITU grid in C-band Even	1529.553	1560.606	nm
ITU Frequency	On ITU grid in C-band ODD	196.05	192.15	THz
ITU Wavelength	On ITU grid in C-band ODD	1529.163	1560.200	nm
Center Frequency Accuracy	Maximum of the absolute deviation of the 3 dB center wavelength from ITU grid over all channels	-0.05	+0.05	nm
Insertion Loss	Maximum of the insertion loss across the ITU pass-band over all channels		6.2	dB
Insertion Loss Uniformity	Maximum insertion loss variance across all channels		1.3	dB
Ripple	Maximum of the loss variance across the ITU pass-band over all channels		0.5	dB
0.5 dB Bandwidth	0.5 dB from min Insertion Loss, full width, worst case polarization	0.2		nm
1dB Bandwidth	1dB from min Insertion Loss, full width, average polarization	0.4		nm
3dB Bandwidth	3 dB from min Insertion Loss, full width, average polarization	0.55		nm
20 dB bandwidth	20 dB from min Insertion Loss, full width, average polarization		1.2	nm
Adjacent Channel Isolation	Ratio of peak transmission to the maximum transmission over both adjacent pass-bands	25		dB
Non-Adjacent Channel Isolation	Ratio of peak transmission in channel pass-bands to maximum transmission over all non-adjacent pass-bands	30		dB
Total Crosstalk	Ratio of power in channel to power in all other pass-bands	21		dB
Polarization Dependent Loss	Maximum ratio of transmissions over all polarization states, over the ITU pass-band		0.5	dB
Return Loss		40		dB

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Polarization Mode Delay (PMD)	In Reference Passband over all channels		0.5	ps
Chromatic Dispersion	In Reference Passband over all channels	-15	15	ps/nm
Consumption			3	W

Note: default connector is LC/UPC

■ Ordering Information**AWG-XX-XX-XXX-XX**

Item code	-	type	-	Channel	-	Channel interval	-	Connector
AWG		TF: thermal flat-top		40: 40CH		100: 100Ghz		LU: LC/UPC
								LA: LC/APC