Building information in high speed, sharing technology for future
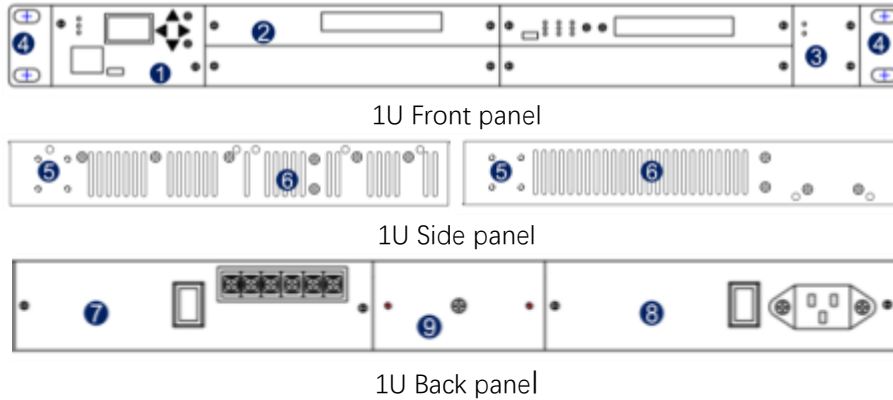
HPA & Managed Chassis datasheet

Catalog

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

1.1   Chassis appearance

1.1.1   1U Chassis

1U Front panel

1U Side panel

1U Back panel
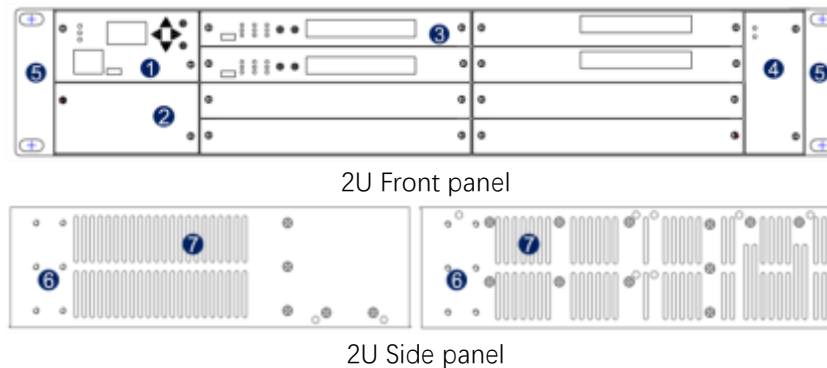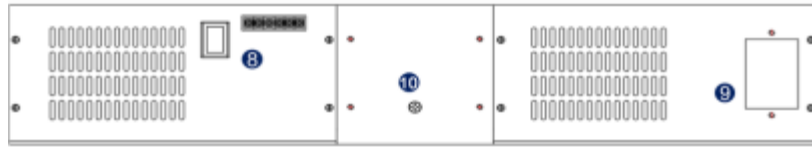
Description：

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

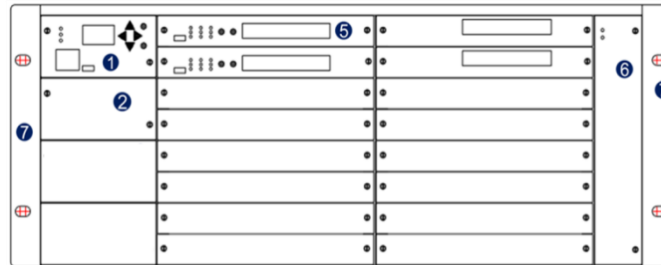⑨ Grounding screw

1.1.2 2U Chassis

2U Front panel

2U Side panel

2U Back panel
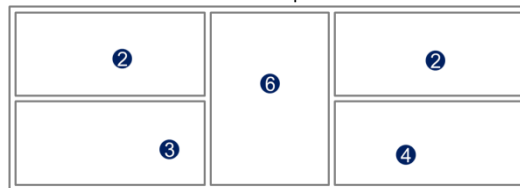
Description：
① Main control card slot
② Expansion slot, plug in 8 Ethernet switch cards or other cards
③ Service card slot, maximum support 8 service board cards, all our service board cards can be mixed interpolation and hot swap.
④ Fan slot, Support for fan hot swap and independent replacement
⑤ Stretchable 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

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
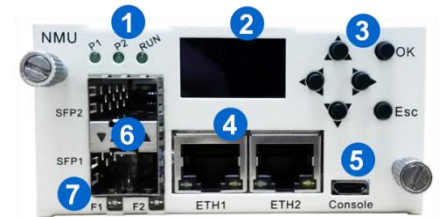
Equipment management

- 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	℃	-10~ 60℃
	Storage temperature	℃	-20℃~ 75℃
	Relative temperature	℃	5% ~ 95% No condensation
Size	1U	mm	482.6W×300D×44.5H
	2U	mm	482.6W×300D×86H
	4U	mm	482.6W×300D×176H
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.HPA card

High Power Amplifier
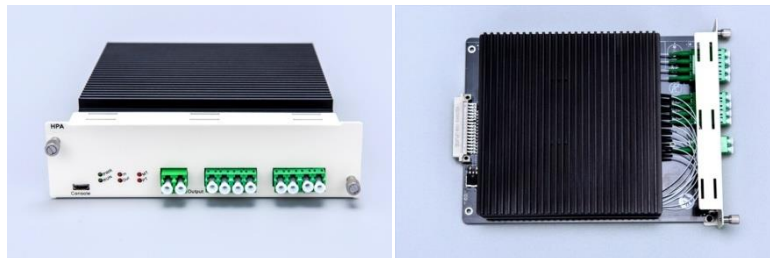
■ Product Description

HPA is a high output power fiber amplifier. It integrates erbium-doped fiber amplification technology and erbium-doped fiber amplification technology to perform two-stage amplification of the input signal, ensuring excellent noise specifications and efficient pump conversion efficiency. For high-power devices, we have designed a high-precision temperature control circuit, and optimized the heat dissipation in the internal structure of the frame and module to ensure the stability of the product and reliable operation for a long time.

■ Product Applications

- CATV network
- Other optical network

■Product Features

- Support multi channels output
- Low noise
- Stable output
- Adjustable output power
- Good heat dissipation performance

■Performance Index

Parameters	Unit	Symb	Min	Typ	Max
Operating Wavelength	nm	λc	1540	1550	1564
Total Output Power	dBm	Po	- - - - -	- - - - -	37
Output power per path	dBm	Po	- - - - -	- - - - -	30
Output port number	/	/	1	-	16
Input Power	dBm	Pi	-10	- - - - -	+10
Noise Figure	dB	NF	- - - - -	5.0	6
Power/Gain Stability	dB	ΔPo	- - - - -	±0.05	±0.1
Input Isolation	dB	ISOi	30	- - - - -	- - - - -
Output Isolation	dB	ISOo	30	- - - - -	- - - - -
Return loss	dB	RL	- - - - -	- - - - -	-45
PDG	dB	PDG	- - - - -	- - - - -	0.3
PMD	ps	PMD	- - - - -	- - - - -	0.5
Consumption	W	P	- - - - -	- - - - -	25

Memo：LC/APC connector

■Ordering Information

HPA-XX-XX-XX

item	-	Single channel output	-	Output channels	-	Connector
HPA		13：+13dBm		01：1 channel		LA：LC/APC
		-		-		
		30：+30dBm		16：16 channels		

Memo： 16 channels single channel output power up to 23dBm, total output power 37dBm.