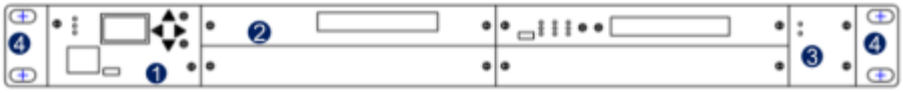
EDFA & Managed Chassis datasheet

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

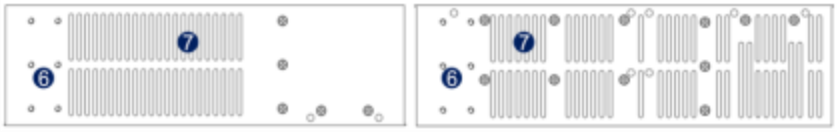
⑦ Power 1 slot, plug in AC/DC power supply, support hot swap

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

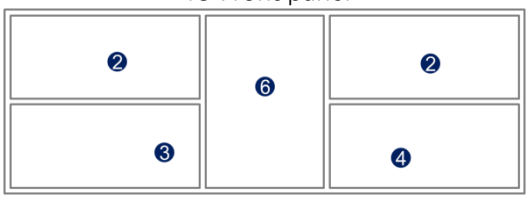
2U Back panel

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

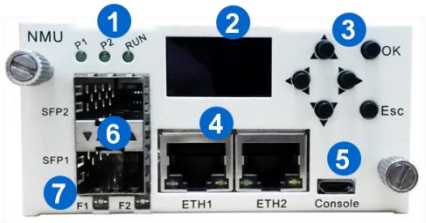
⑥ Fan slot, Support for fan hot swap and independent replacement
⑦ Stretchable lug

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（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. EDFA card

EDFA amplifier

Product Description

The product is a multi - channel EDFA for telecommunication networks.The product USES high reliability pump laser, high flatness gain filter, wide input range detector and other high quality optical devices, combined with high precision power control circuit and temperature control circuit, so that the product has a stable output power, low noise, wide input range, good gain flatness, high reliability, low power consumption and other characteristics.

Product Applications

- DWDM network
- Other OTN network

Product Features

- Stable output
- Low noise
- Gain stable

- Wide input range
- In strict accordance with the design requirements of Bellcore gr-1312-core

Performance Index

BA

Parameters	Unit	Symb	Min	Typ	Max
Working mode	-----	-----	-----	AGC	-----
Operating Wavelength	nm	λc	1528	1550	1564
Output Power	dBm	Po	13	-----	23
Input Power	dBm	Pi	-23	-----	12
Gain	dB	G	8	-----	24
Noise Figure	dB	NF	-----	4.5	6
Flatness	dB	GF	-----	1	1.5
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	-----	-----	0.3
Consumption	W	P	-----	-----	10

LA/PA

Parameters	Unit	Symb	Min	Typ	Max
Working mode	-----	-----	-----	AGC	-----
Operating Wavelength	nm	λc	1528	1550	1564
Output Power	dBm	Po	-----	-----	23
Input Power	dBm	Pi	-30	-----	5
Gain	dB	G	8	-----	33
Noise Figure	dB	NF	-----	4.5	6
Flatness	dB	GF	-----	1	1.5
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	-----	-----	0.3
Consumption	W	P	-----	-----	10

Note： default connector is LC/UPC

Ordering Information

EA-X-X-XX-XX-X-XX

Product code	-	Application	-	Type	-	Saturation output	-	Gain	-	Special function	-	Connector
EA		M: Multi-channel		B: BA		13: 13dBm		08: 08dB		N: no		LU: LC/UPC
				L: LA		...		-		M: with monitor port		LA: LC/APC
				P: PA		23: 23dBm		33: 33dB		F: with 1625 port		
										P: 1310nm bypass		