

## TDCM & Managed Chassis datasheet

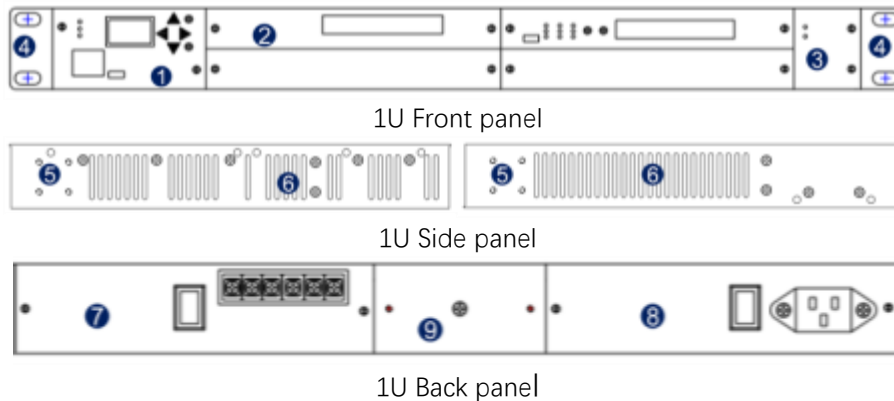
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# 1. 1U/2U/4U Managed Chassis

## 1.1 Chassis appearance

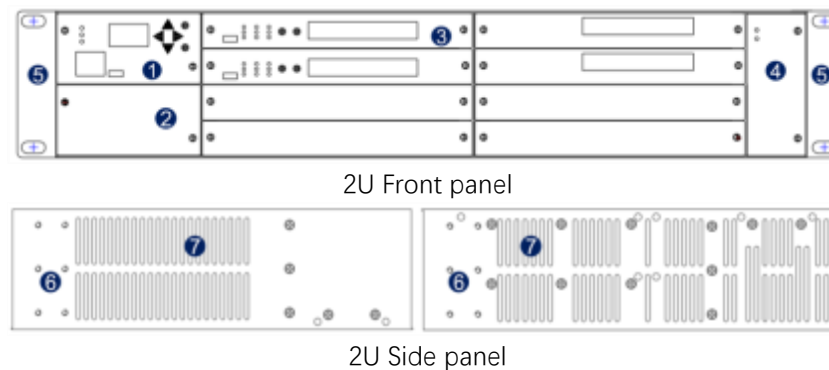
### 1.1.1 1U Chassis



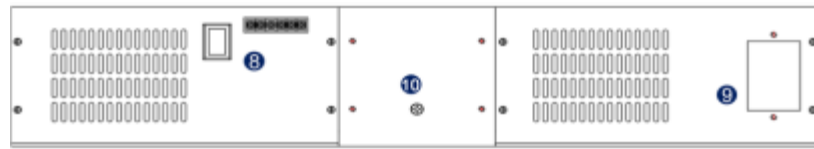
Description:

- 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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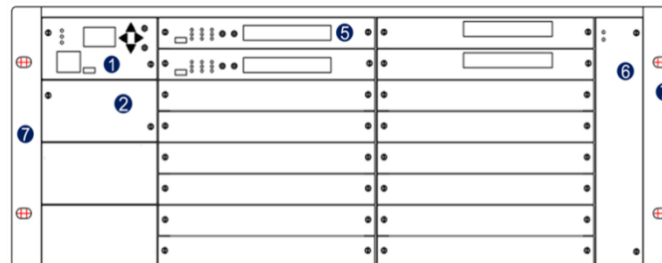


2U Back panel

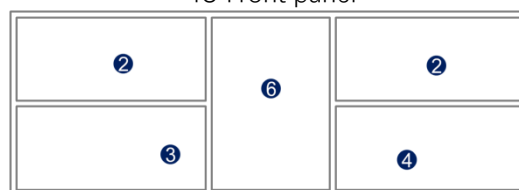
Description:

- 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. TDCM card

### Tunable Dispersion compensator module



#### Product Description

This product is a dispersion compensator based on Gires - Tourniois standard technology. It makes the optical signal of different wavelengths transmit in different optical paths and produces periodic dispersion effect. By controlling the temperature of the interference cavity of the standard tool, the dispersion tuning can be realized. This product has the characteristics of high compensation precision, adjustable dispersion compensation value, low loss, small size, etc. It is suitable for high-speed DWDM system or the occasion that needs dynamic dispersion adjustment.

#### Product Applications

- DWDM network
- Long distance transmission

#### Product Features

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- Low insertion loss
- Dispersion compensation precision is high
- Wide dispersion adjustment range
- The positive and negative dispersion can be adjusted

### Performance Index

Parameters		Specifications (EOL)			
		Min	Typ.	Max	Unit
Wavelength Rang		1528		1568	nm
Operation bandwidth		ITU±18			GHz
Channel spacing		100			GHz
Wavelength shift capability		50GHz(starting wavelength:196.0THz)			
Dispersion tuning range®		±1400			ps/nm
Dispersion tuning range (DTR) and Operation Bandwidth (OBW)		DTR: +/- 400and OBW: 50~55GHz DTR: +/- 800 and OBW: 36~45 GHz DTR: +/- 1400 and OBW:20-26GHz			
Dispersion setting resolution				10	ps/nm
Absolute Dispersion accuracy	+/-400ps/nm	-10		+10	ps/nm
	+/-800ps/nm	-30		+30	ps/nm
	+/-1400ps/nm	-60		+60	ps/nm
Tuning Stability		-5		+5	ps/nm
Insertion loss		3		6	dB
Insertion Loss Ripple				1	dB
Insertion Loss Uniformity				1	dB
Return loss		40	50		dB
Tuning Time				25	S
PDL				0.2	dB
PMI				1	ps
Operating Temperature		-5		65	℃
Power Consumption				8	W
Life of TDCM (Transferred once every three seconds)		20			Years

Note: default connector is LC/UPC

### Ordering Information

#### TDCM-XXX-XX

Item code	-	Tunable range	-	connector
TDCM		400: +/- 400ps/nm		LU: LC/UPC
		800: +/- 800ps/nm		LA: LC/APC
		1400: +/- 1400ps/nm		