

STN6800-D16HE

Stackable 1.6T DCI/DWDM Transmission Platform



Overview

STN6800-D16HE is a stackable ultra-100G DWDM transmission platform for data center interconnection applications. The product has large transmission capacity, compact size, low power consumption and fully meets the requirements of data center application. It is suitable for both short-distance interconnection and long-distance transmission.

STN6800-D16HE supports 100G client and 10G client; in line side, it supports 100G,200G,400G interface. Based on the open software architecture, it provides various open interfaces.

Physical Characteristics

Characteristic	Description
Dimension (mm) (Height*Width*Depth)	44.45mm (H) * 448mm (W) * 490mm (D)
	1U height, 19 inches wide, with four pluggable electrical layer card slots, maximum capacity 1.6T
Suitable cabinet	19-inch
Power supply	1+1 redundancy power supply AC input: 100~240V, 47~63Hz DC input: -40V~-72V
Cooling method	The air flow direction is from the front to the rear

Working environment	Working temperature: 0 C~45 C Memory storage temperature: -40 C ~ 70 C Relative humidity: 10%~90%, no condensation
Maximum power consumption	400W
Out-band management interface	2xRJ45 network port
In-band management	GCC0/1/2
Open API	SNMP/NETCONF

Technical Specifications

1. Electrical Unit - T4QH



Technical Feature	T4QH Description
Size	Single slot service card, four slots per chassis
Client-side interface	Each T4QH service card supports four pluggable QSFP28 based 100G client ports, in total sixteen 100G client ports per chassis..
Line-side interface	Each T4QH service card supports one pluggable 400G/200G CFP2 DCO coherent modules, in total four 400G/200G line-side ports.
Line-side signal and multiplexing structure	200G: OCh <-> OTUC2 <-> ODUC2 <-> ODU4 400G: OCh <-> OTUC4 <-> ODUC4 <-> ODU4
Client-side signal and mapping	100GE <-> ODU4

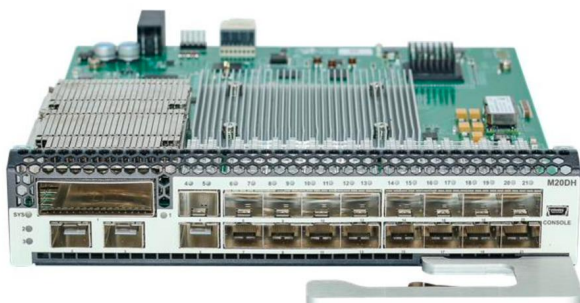
method	
Line-side modulation format	200G:16QAM
	400G:16QAM
FEC mode	200G: SD-FEC
	400G: SD-FEC

2. Electrical Unit - T4DH



Technical Feature	T4DH Description
Size	Single slot service card, four slots per chassis
Client-side interface	Each T4DH service card supports four pluggable QSFP28 based 100G client ports, in total sixteen 100G client ports per chassis.
Line-side interface	Each T4DH service card supports two pluggable 200G/100G CFP2 DCO coherent modules, in total eight 200G/100G line-side ports.
Line-side signal and multiplexing structure	200G: OCh <-> OTUC2 <-> ODU4 100G: OCh <-> OTU4 <-> ODU4
Client-side signal and mapping method	100GE <-> ODU4
Line-side modulation format	200G: 16QAM
	100G: DP-QPSK
FEC mode	200G: SD-FEC
	100G: SD-FEC






3. Electrical Unit - M20DH



Technical Feature	M20DH Description
Size	Two-slot service card, four slots per chassis
Client-side interface	Each M20DH service card supports twenty pluggable SFP+ based 10G client ports, in total forty 10G client ports per chassis
Line-side interface	Each M20DH service card supports one pluggable 200G/100G CFP2 DCO coherent modules, in total two 200G/100G line-side ports.
Line-side signal and multiplexing structure	200G: OCh <-> OTUC2 <-> ODU2 <-> ODU4
	100G: OCh <-> OTU4 <-> ODU4 <-> ODU2/2e
Client-side signal and mapping method	10GE<->ODU2/ODU2e
	STM64/OC192 <-> ODU2/ODU2e
	OTU2/2e <-> ODU2/2e
Line-side modulation format	200G: 16QAM
	100G: DP-QPSK
FEC mode	200G: SD-FEC
	100G: SD-FEC

4. Optical Unit - M20DH

Card Name	Front Panel	Description
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<p>OA1</p>		<p>One-slot Optical Amplifier card in-built OSC monitor channel Support VOA, MON</p>
<p>OA2</p>		<p>Two-slots Optical Amplifier card Support 23dBm and 21dBm output EDFA in-built OSC monitor channel Support VOA, MON</p>
<p>OLP 1+1</p>		<p>One-slot Optical Line Protector Support 1+1 protection Support manual/auto modes Support power failure,</p>
<p>OTDR</p>		<p>One-slot OTDR tester Support 1625nm±10nm Support Pulse Width 5ns~20us</p>
<p>Mux/Demux</p>		<p>Mux/Demux Module Support 8/16 Mux or Demux</p>

Typical Applications

