

Apollo 9504D Stackable 1.6T DCI/DWDM Transmission Platform

Apollo 9504D 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 applications. It is suitable for both short-distance interconnection and long-distance transmission.

Apollo 9504D supports 100G and 10G clients, and on the line side it supports 100G, 200G, 400G interface. Based on an open software architecture, it provides various open control interfaces.







Physical Properties

Property	Description
Dimension (mm) (Height x Width x Depth)	44.45mm (H) x 448mm (W) x 490mm (D) 1U height, 19" wide, with four pluggable electrical layer card slots, maximum capacity 1.6T
Suitable Cabinet	19"
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 1+1 fan module redundancy
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	2 x RJ45 network port
In-band Management	GCC0/1/2
Open API	SNMP/NETCONF



Data Sheet

Technical Specifications

Service Card - M400L1C4

Service Card - M400L1C4		
Technical Feature	M400L1C4 Description	
Size	Single-slot service card, four slots per chassis	
Client-side Interface	Each M400L1C4 service card supports four pluggable QSFP28-based 100G client ports, in total 16 100G client ports per chassis.	
Line-side Interface	Each M400L1C4 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 Method	100GE <-> ODU4	_
Line-side Modulation Format	200G: 16QAM 400G: 16QAM	_
FEC Mode	200G: SD-FEC 400G: SD-FEC	_

Service Card - M200L2C4

Technical Feature	M200L2C4 Description	
Size	Single slot service card, four slots per chassis	
Client-side Interface	Each M200L2C4 service card supports four pluggable QSFP28-based 100G client ports, in total sixteen 100G client ports per chassis.	
Line-side Interface	Each M200L2C4 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 <-> ODUC2 <-> 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	-



Service Card - M200L1C20

Technical Feature	M200L1C20 Description	
Size	Two-slot service card, four slots per chassis	7
Client-side Interface	Each M200L1C20 service card supports twenty pluggable SFP+ -based 10G client ports, in total forty 10G client ports per chassis	
Line-side Interface	Each M200L1C20 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 <-> ODUC2 <-> ODU4 100G: OCh <-> OTU4 <-> ODU4 <-> ODU2/2e	
Client-side Signal and Mapping Method	10GE <-> ODU2/ODU2e STM-64/OC192 <-> ODU2/ODU2e OTU2/2e <-> ODU2/2e	_
Line-side Modulation Format	200G: 16QAM 100G: DP-QPSK	-
FEC Mode	200G: SD-FEC 100G: SD-FEC	-

List of supported pluggable transceivers:

- OTR200P2 CF
- OTR100Q28_SR4/LR4
- OTPMR PI3

OTR400P2_CFA1

• OTP10_SR/LR

Optical Card - MOA

MOA-P16G20		
Description	Pre-amp: 16dBm EDFA, 15-25dB Gain	
Technical Feature	 One-slot Optical Amplifier card with a built-in OSC monitor channel Support integrated VOA, Support MON monitor interface 	
MOA-B20G12		
Description	Booster: 20dBm EDFA, 9-15dB Gain	
Technical Feature	 One-slot Optical Amplifier card with a built-in OSC monitor channel Support VOA (External SFP), Support MON monitor interface 	

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