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.

Front view

Rear view

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: $0^0C \sim 45^0C$ Memory storage temperature: $-40^0C \sim 70^0C$ 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

Technical Specifications

Service Card - M400L1C4

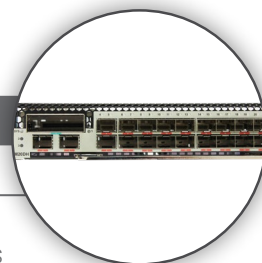| Technical Feature	M400L1C4 Description
Size	Single-slot service card, four slots per chassis
Client-side Interface	Each M400L1C4 service card supports four pluggable QSFP28-based 100G client ports, in total 16 100G client ports per chassis.
Line-side Interface	Each M400L1C4 service card supports one 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

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Service Card - M200L1C20

Technical Feature	M200L1C20 Description
Size	Two-slot service card, four slots per chassis
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
- OTR400P2_CFA1
- OTR100Q28_SR4/LR4
- OTP10_SR/LR
- OTPMR_PI3

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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