Contents

Product Overview

D6000-CH1U is a 4-slot, 1U chassis that hosts D6000 transponder and muxponder, supporting up to four pluggable D6000 traffic modules. It houses redundant 1+1 power supplies and 3+1 fans, both of which are hot swappable to ensure backup and stability. This system can transport multiple services (100GE/400GE services are supported now), offering 6.4T maximum capacity.

The D6000 series is a 100G/400G modular optical transport platform that provides high capacity, low power comsumption and a compact form factor, suitable for IP over DWDM applications, flexible DWDM metro and edge networks. It is optimized for streamlined deployment and management, supporting AmpCon-T network management system and WebGUI for efficient operation and maintenance.

Product Highlights

- 1U 19” 4-Slot Chassis Unit for D6000 Traffic Cards
- Up to 400G Line Rate for Maximum 6.4T Capacity
- Support 2 or 4 D6000 Pluggable Modules
- Redundant Backup for Hot Swappable AC/DC PSUs and Fans
- Support AmpCon-T and WebGUI Network Management
- Ideal for Flexible DWDM Metro and Edge Networks

Product Details

Product configurations

Figure 1.
D6000-CH1U, 4 Slots 1U Unloaded Chassis, Support Single-wavelength 100G/400G, Up to 6.4T Capacity, Redundant AC/DC PSUs, Support AmpCon-T/WebGUI Network Management

Figure 2.

D6000 4T4E4C, 4 x 400G QSFP-DD Transponder for D6000-CH1U Managed Chassis

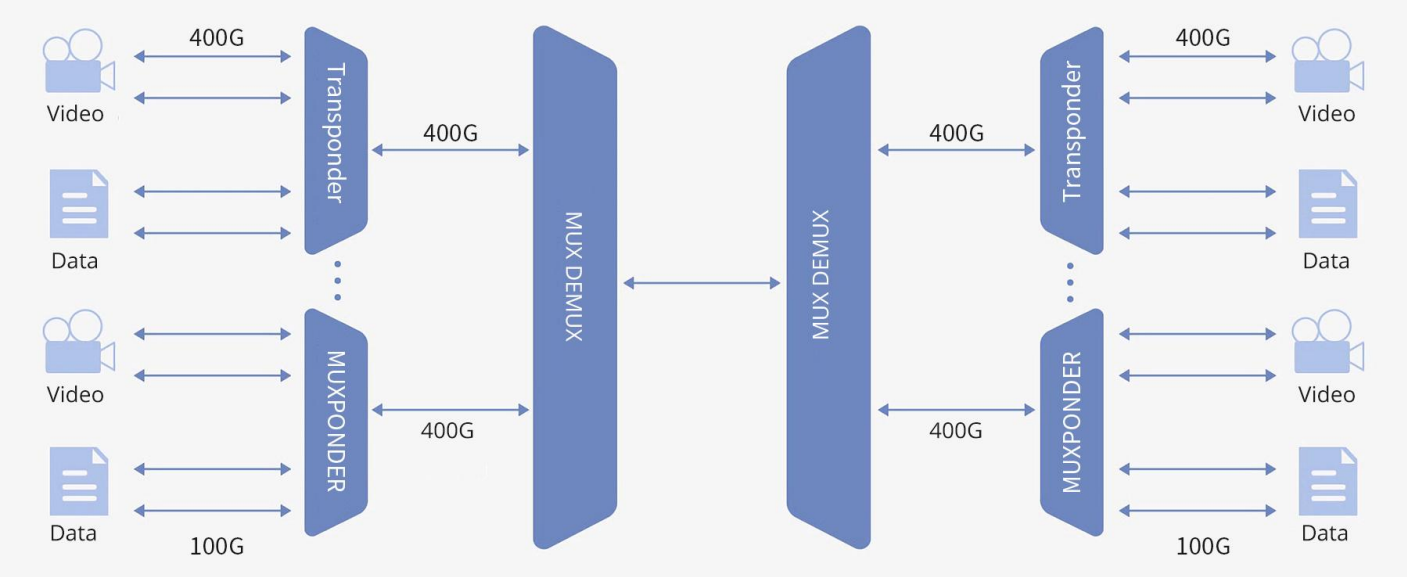
Figure 3.
D6000 4ME4C, 4 x 100G QSFP28 to 1 x 400G QSFP-DD Muxponder for D6000-CH1U Managed Chassis

Applications

Scalable and Future-proof Network Architecture

The D6000 series provides a 400G ZR/ZR+ solution for higher-performance metro and edge interconnects, supporting increasing network scalability, flexibility and bandwidth demands.

D6000 4T4E4C transponder and 4ME4C muxponder can work with 400G QSFP-DD transceivers, amplifier and mux demux, ensuring high-capacity data transmission over long distances, which make D6000 series easy to deploy and manage in DCI and metro networks.



Technical Specification

Table 1. Technical Specification of D6000-CH1U Chassis

Parameter	D6000-CH1U	Note
Physical Specifications		
Power Redundancy	1+1 Backup Power Supply	
Power Supply	**AC**: rated AC 220V, voltage range: 100～250V ; OUTPUT: 12V, 65A **DC**: rated DC -48 V, voltage range: -40～-72V , OUTPUT: 12V, 67A	
Power Consumption	Max.800W	
Cooling Unit	4 (3+1 Redundancy), Front-to-Back, Hot-swappable	
Maximun Capacity	Up to 6.4T	
Line Rate	100G/ 400G	
Supported Service Types	1GE/10GE/25GE/40GE/100GE/400GE; 8G/16G/32GFC	100GE/400GE is supported now
Enclosure Type	1U Rack	
Dimensions (HxWxD)	1.73"x17.48"x19.33" (44x 444x 491mm)	
Weight	10 kg	
Port		
Slot Count	4 Slots for AC/DC Chassis	
Management Interface	4 x RJ45 LAN ports 10/100Mbps 2 x SFP LAN port 1000 Mbps 1 x Reset button 1 x Console port	Console port is not open to external access
Management		
Management Types	AmpCon-T/ WebGUI	
LLDP	Supported by NMU management interface	

Parameter	D6000-CH1U	Note
Environmental		
Operating Temperature	0 to 45°C (32 to 113°F)	
Storage Temperature	-40 to 70°C (-40 to 158°F)	
Environment Humidity	5% to 85%, No Condensing	

Technical Specification

Table 2. Technical Specification of Transponder/Muxponder

Parameter	4T4E4C	4ME4C
Client Characteristics		
Interface Type	4 x 400G QSFP-DD	4 x 100G QSFP28
Supported Client Modules	400G DR4 QSFP-DD / 400G LR4 QSFP-DD / 400G FR4 QSFP-DD 400G SR8 QSFP-DD / 400G LR8 QSFP-DD	100G DR QSFP28 / 100G FR QSFP28 / 100G LR QSFP28 100G SR4 QSFP28 / 100G LR4 QSFP28 / 100G ZR4 QSFP28
FEC	RS-FEC	RS-FEC
Line Characteristics		
Interface Type	4x 400G QSFP-DD	1x 400G QSFP-DD
Supported Line Modules	400G ZR QSFP-DD 400G ZRPH QSFP-DD	400G ZR QSFP-DD 400G ZRPH QSFP-DD
FEC	C-FEC /O-FEC	C-FEC /O-FEC
Modulation Mode	400G ZR	400G ZR
Function		
ALS	Supported	Supported
Loopback	Supported	Supported
Protection Scheme	OLP	OLP
Service Types	400GE	100GE
Physical Specifications		
Power Consumption	Max.140W	Max.65W
Dimension(HxWxD)	1.59"× 3.96"× 9.70"(40.5x 100.5x 246.5mm)	1.59"× 3.96"× 9.70"(40.5x 100.5x 246.5mm)
Housing	Plug-in Module（Occupy 1 Slot）	Plug-in Module（Occupy 1 Slot）
Weight	0.95kg	0.85kg

Parameter	4T4E4C	4ME4C
Environmental		
Operating Temperature	0 to 45° C (32 to 113° F)	0 to 45° C (32 to 113° F)
Storage Temperature	-40 to 70° C (-40 to 158° F)	-40 to 70° C (-40 to 158° F)

Ordering Information

FS P/N	Description
Chassis	
D6000-CH1U	D6000-CH1U, 4 Slots 1U Unloaded Chassis, Support Single-wavelength 100G/400G, Up to 6.4T Capacity, Redundant AC PSUs, Support AmpCon-T/WebGUI Network Management
D6000-CH1U	D6000-CH1U, 4 Slots 1U Unloaded Chassis, Support Single-wavelength 100G/400G, Up to 6.4T Capacity, Redundant DC PSUs, Support AmpCon-T/WebGUI Network Management
Transponder	
4T4E4C	D6000 4T4E4C, 4 x 400G QSFP-DD Transponder for D6000-CH1U Managed Chassis
Muxponder	
4ME4C	D6000 4ME4C, 4 x 100G QSFP28 to 1 x 400G QSFP-DD Muxponder for D6000-CH1U Managed Chassis
Coherent Module	
QSFPDD-ZR-400G	QSFP-DD DCO 400G DWDM Tunable Coherent ≤120km DOM Duplex LC/UPC SMF Optical Transceiver Module for Transmission
QDD-ZRP-400G-HT	400G DWDM Tunable Coherent QSFP-DD High-Power (Bright) DCO 400G DWDM Tunable Coherent ＞120km DOM Duplex LC/UPC SMF Optical Transceiver Module for Transmission

Document History

New or revised topic	Described in	Date
FS D6000 Series Datasheet	Updated all	3/27/2025