



FS D710 Series Data Sheet

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I Product Overview

18M2C2 is an OTN product of the intelligent transport network series, providing customers with an OTN access transmission platform based on high-bandwidth upstream bearer and multiple access service bearer, to meet the increasing demand for bandwidth and large customer service bearer.

The 18M2C2 chassis adopts a standard 19-inch wide and 1U high structure, which supports both installation in a standard cabinet with a depth of 600mm and a width of 19 feet, as well as placement on a workbench desktop. The compact design improves the integration of equipment and reduces the overall space occupied by the equipment.

I Features and Benefits

- High Capacity Platform in 1U
- Flexible 10/40/100GbE Interface Speeds
- Support AES-256 Encryption at Layer 1
- Support In-band GCC Management
- Provide OCH1+1 and ODUK SNCP Protection
- Adjustable FEC to Correct Erroneous Messages
- Support Flexible Service Scheduling and Forwarding

Table 1. 18M2C2 portfolio

Product	Description
18M2C2	18M2C2, Multi-protocol multi-rate 200G OTN Managed Transport Platform, with Layer-1 encryption, Redundant AC PSUs
18M2C2	18M2C2, Multi-protocol multi-rate 200G OTN Managed Transport Platform, with Layer-1 encryption, Redundant DC PSUs

Product Details

Product configurations



Figure 1.

18M2C2, Multi-protocol multi-rate 200G OTN Managed Transport Platform, with Layer-1 encryption, Redundant AC PSUs



Figure 2.

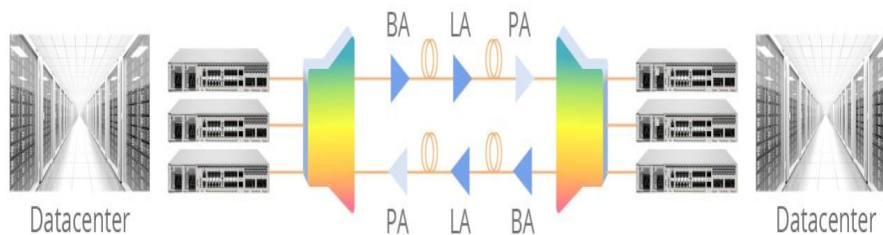
18M2C2, Multi-protocol multi-rate 200G OTN Managed Transport Platform, with Layer-1 encryption, Redundant DC PSUs

Application

The 18M2C2 is applicable for the OTN access network, supporting 10Gbit/s to 100Gbit/s multi-service access, and can be networked with OTN aggregation devices. It completes the access, integration and multiplexing of services at the edge of the network, and assists operators in achieving unified large-grain transmission of multi-point services, effectively saving network fiber resources.

Basic Applications

- **Point-to-point networking:** Utilizing two devices for point-to-point service transmission. The line side usually employs OCh 1+1 protection or integrates with other OLP devices for protection.
- **Ring networking:** Forming a ring network with multiple devices for service transmission, where each node can access and pass through services. The line side generally adopts ODUk SNCP 1+1 protection to create dual-directional ring network service routing.
- **Chain networking:** Connecting multiple devices in a chain for service transmission, where each node can access and pass through services. The line side typically has no protection.



This solution delivers high-bandwidth optical transmission for Data Centers, supporting 40x 100G/200G hybrid systems and distances up to 2400 km.

Technical Specification

Table 1. Line/Client Interface Specification of 18M2C2

Parameter	Description		Note
Product	18M2C2(AC)	18M2C2(DC)	
Enclosure	1U Rack	1U Rack	
Line-Side Interface	2x CFP2	2x CFP2	
Client-Side Interface	16x SFP+ 2x QSFP+/QSFP28	16x SFP+ 2x QSFP+/QSFP28	
Line-Side Transmit Rate	100G/200G	100G/200G	
Service Type	100GE/40GE/10GE; OTU4/OTU2/OTU2e; STM-64; 32G/16G/10G/8GFC;		
Client-Side Signal and Mapping Method	10GE LAN<->ODU2E<-> ODU4; 10GE WAN<->ODU2<-> ODU4; STM64/OC192 <-> ODU2 <-> ODU4; FC800/1000/1600/3200<-> ODUFLEXE<-> ODU4 OTU2/2e <-> ODU2/2e<-> ODU4 40GE<->ODU3<-> ODU4; 100GE<->ODU4 OTU4<->ODU4		
Multiplexing Structure of Line-Side Signal	200G(OCh)<->OTUC2<->ODUC2<->ODU4 100G(OCh)<->OTU4<->ODU4		
Line-Side Modulation Format	DP-16QAM/DP-QPSK		
OTN Function (Interface + Overhead)	Adopt the frame format and overhead processing as recommended by ITU-T G.709 ODUk (k=2, 2e, 4, C2) layer: supports PM functions OTUk (k=C2) layer: supports SM functions		

Parameter	Description		Note
Encryption Management	Support AES-256 encryption algorithm Support simultaneous encryption of up to 20 services		
ALS	Support	Support	
LLDP	Support	Support	
PRBS	Support	Support	
Delay Measurement	Support	Support	
Client-Side FEC	No FEC		
Line-Side FEC	GFEC OFEC		Support GFEC at 100G rate; Support OFEC at 200G rate;
Protection Mode	OCh 1+1, ODUk SNCP 1+1, OLP 1+1 protection		
Loopback	Support internal and external loopback on line side and client side interfaces		
Management Interface	1xSNMP RJ45 (management port) 1x EXT RJ45 (cascading port)		The Console port is designated for device debugging and is not available for external access.
Management Method	Support In-Band DCN Management and Out-of-Band Management		
Power Specifications	Dual power supply 1+1 protection, 100~240V, 5A, 50/60Hz		Dual power supply 1+1 protection, -36~-72V (-48V DC, 6.5A)
Fans	3 fans, front-to-back airflow.		
Total Power Consumption	Max. 240W		
Operating Temperature	Operating Temperature: -45~70°C Relative Humidity: 10%~90%, non-condensing		
Dimensions (HxWxD)	1.77" x 17.32" x 14.17" (45x440x360mm)		

| Warranty

- Standard warranty: 2 years
- For more information for FS Returns & Refunds policy, visit <https://www.fs.com/policies/warranty.html> or https://www.fs.com/policies/day_return_policy.html

| Ordering Information

FS P/N	Product Description
18M2C2	18M2C2, Multi-protocol multi-rate 200G OTN Managed Transport Platform, with Layer-1 encryption, Redundant AC PSUs
18M2C2	18M2C2, Multi-protocol multi-rate 200G OTN Managed Transport Platform, with Layer-1 encryption, Redundant DC PSUs
CFP2-DCO-200G-D71	CFP2-DCO 200G Tunable Digital Coheren 80km Module, Generic



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