

香港东为科技有限公司

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DWDM System



DWDM systems is the high speed and large capacity transmission system. With 48 transmission channel in maximum, the speed rate can reach 40 Gbit/s in a single channel, and the total capacity can be 1920Gbit/s. DWDM can fully met the requirement of telcom operator in super Rack-type DWDM System Outline, 2U+1U, 19" large capacity and long distant transmission, offer a firm platform for the transmission in multi-service and the upgrade for the network in the future. It is the best solution for the shortage of fiber cable at present.

DWDM Transmission System (2U+1U)

2U+1U rack-type DWDM equipment adopts the flexible expanding framework, supports modular on-line upgrade. It is easy to expand the capacity and maintain the system.By network management function in in-band and out-band, it is easy to manage. With various service interface, flexible configuration, economic network structure and stable operating, this system can effectively meet the dedand of the large transmission capacity in the MAN in new period.

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2U Rack-type DWDM System

Functional Feature

- ◆ Large capacity: By the single-mode optical fiber cable used at present, the speed rate of a single channel in DWDM can reach 40G, with total capacity in 1920G.
- ◆ Flexible topological structure: point to point; pont to multi-points; chain; ring etc.
- ◆ Various service transparent access: It supports the services such as Ethernet, PDH, SDH, CATV and professional network,compatible with the speed rate of 155M, 1.25G、2.5G, 10G, 40G.
- ◆ **Different transmission distance:** transmission distance without relay can be 30km, 40km, 80km, 100km, 120km etc. It can make long-distance transmission with relay.
- ◆ Good expandability: The Channel of DWDM can be expanded to 48.
- ◆ 1+1 backup system protection: the optical switching time≤30ms ensure the safety and stability of transmission route.
- ◆ 1+1 backup system for heat redundancy of power supply: Activer WDM device offer dual-power 1+1 backup system for heat redundancy, power supply supports hot-plugging, AC/DC optional.
- Open structure: it supports customer service access, compatible with the equipment of various manufactures. It supports the client equipment of single-mode(1310nm/1550nm), muli-mode (850nm/1310nm), RJ45 etc. I realizes the function of OADM, the mid-side node can wave rise and fall freely.
- ◆ Strong network management function: It adopts SNMP-based graphical interface and supports in-band and out-band management. The network adopts an embedded operating system and has a real-time monitoring and controlling function. The form of management is flexible and varied. The graphical user interface is friendly.

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Technical parameter

System Parameter		Technical Index				
Max Capacity		16-channel(16X10G),32-channel(32X10G), 40-channel(40X10G),48-channel(48X10G)				
Wavelength Range		- Compliant with standard of ITU-I G.694.1-				
Access Service Type		PDH , ATM STM-256/STM-64/STM-16/STM-4/STM-1 OC-768/OC-192/OC-48/OC-12/OC-3 FE, GE, 10GE FICON/ESCON/FIBER Channel/CATV				
Transmission Mode at Optical Interface		Adopts 2R transmission mode, each channel supporting transparent transmission at a rate below 2.5Gbit/s. Adopts 3R transmission mode, each channel supports the rate such as 155Mbit/s, 622Mbit/s, 1.25Gbit/s, 2.5Gbit/s, and 10Gbit/s, 40Gbits (Optional).				
Topological Structures		Point to point; point to multi-points; chain; ring; single fiber Bidirectional				
Optical Fib	er Type	G.652 G.653 G.655				
Network Manag	ement Mode	CLI, TELNET, SNMP,WEB				
	2U OUT card	25 (W) X 88 (H) X 116 (D) (mm)				
Dimension	1U passive chassis	440 (W) × 44 (H) × 230 (D) (mm)				
	2Uchassis	428 (W) × 88 (H) × 322 (D) (mm)				
	Operating temperature	-10℃ ~ 60℃				
Environment Requirement	Storage temperature	-40℃ ~ 80℃				
	Relative Humidity	5% ~ 95% (non-condensing)				
Power Supply(Standard)		220 V/AC, 50Hz; -48 V/DC (optional)				
Safety and EMC		Compliant with FCC、UL、CE、TUV、CSA				
Consumption		≤85W (10G DWDM≤150W)				

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Ordering information

DW-TS	X	XX	XX	X	X	X	X	X
Transmission System	System stucture	Data rate	Channel Number	Transmission Type	Transmissi on distance	Custome r port	Network Managemen t	Power supply
	1 = 1U 2 = 2U+1U 3 = 3U+1U 5 = 5U+1U	0 = 155M 1 = 1.25G 2 = 2.5G 3 = 10G 4 = 40G	04 = 4channel 08 = 8channel 16 = 16channel 48 = 48channel XX=order	1 =Dual-fiber/ Bi-directional 2 = Single-fiber/ bi-directional 3 = single-fiber, unidirectional		mode LC 2=multi-m	2 = no	1 = dual-AC 2 = dual-DC 3 = AC/DC X = order

DW-OC	Х	X	X	XX	схх
	Speed Ratio	Transmission Distance	Customer Port	Wavelength Reshaping	First Wavelength
2U OTU Card	1 = 2R/155M 2 = 2R/1.25G 3 = 2R/2.5G 4 = 3R/155M 5 = 3R/1.25G 6 = 3R/2.5G 8 = 10G 9 = 40G X=order	1 = 30KM 2 = 50KM 3 = 80KM 4 = 100KM 5 = 120KM X = order	1 = single-modeLC 2 = multi-modeLC 3 = RJ45 X = order	1R= Without Wavelenth Reshaping (Standard) 3R= With Wavelenth Reshaping	27 = 1270nm (1270~1610) XX=Customize

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