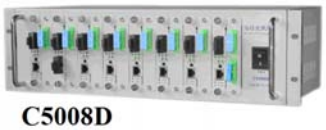
C5000 series CWDM chassis

2.1.1 Overview

HiOSO C5000 series CWDM devices can effectively replace layout of optical cables, which improves bandwidth utilization at a low cost. It is applicable to the construction of short and medium-distance IP broadband Metropolitan Area Networks (MANS) and access networks, especially applicable to network carriers who: 1) cannot lay optical cables conveniently , 2) rent optical cables , 3) do not have sufficient optical cables, 4) want to improve the bandwidth utilization of optical cables.

HiOSO C5000 series devices are developed on the basis of CWDM technology, through which multiple wavelength channels with a wavelength interval of 20nm are multiplexed into one or a pair of fibers to implement signal transmission; it can be used in point-to-point and point-to-multipoint application, and can also work with wavelength routers. With the application of non-cooling laser technology and EDFA technology, it has great cost advantage in building broadband MANS and access networks. It can provide interfaces in multiple data formats, such as E、FE、GE 、STM-1/4/16 interfaces and fiber channels.

C5004S



C5008D

C5008S

C50016D

External interface: Interface for out signal input; interface type can be RJ45 or fiber port, connecting with switches and fiber optical converters etc, to implement signal input.
Internal interface: CWDM signal conversion port; output signal wavelengths are CWDM wave band (1470nm-1610nm), easy for multiplexing and output.
COM: Multiplexing signal output port, a port for signal output after multiplexing; interface type is SC.

Remarks: Module cards support hot-swap; directly replacing and increasing new cards are supportable.

2.1.2 C5000 series chassis

- C5004S： single-fiber、4 channels bidirectional concourse
- C5008D： dual-fiber、8 channels bidirectional concourse
- C5008S： single-fiber、8 channels bidirectional concourse
- C50016D：dual-fiber 、16 channels bidirectional concourse

2.1.3 Characters

◆ Protocol: Seamless connection with Ethernets、SDH networks and fiber channels;
◆ Rate: 10Mbps-1.25Gbps adaptive, 2.5G optical module;
◆ Extensible: 2～16 wave channels (optional);
◆ Network topology: point-to-point, point-to-multipoint;
◆ Fiber access: single mode, multi mode;
◆ Wavelength: 850nm、1310nm、1550nm;
◆ Twisted-pair access: 10Base-T、100Base-TX、1000Base-T;
◆ Power supply: AC220V、DC-48V;
◆ 19-inch chassis structure, convenient for installation and use;
◆ A maximum of 16-channel transmitting/ receiving optical signals can be multiplexed to a pair of fibers for transmission;
◆ Open structure, supporting inter-connection and inter-working with other manufacturers' devices.

2.1.4 Technical specification

Parameters	**specification**
Internal Optical Interface	
Central wavelength	1270nm、1290nm、1310nm、1330nm、1350nm、1370nm、 1430nm、1450nm 1470nm、1490nm、1510nm、1530nm、1550nm、1570nm、 1590nm、1610nm
Channel spacing	20nm
Optical pass band width	+/- 6 nm
Temperature drift of central wavelength	0.08nm～0.1nm/°C
Transmitted optical power	-10dBm～+3dBm
Received optical power	-24dBm～-3dBm
Optical receiving pass band	1270nm～1610nm
LOS alarm power at receive end	-25dBm～-30dBm
Receiving sensitivity	< -20dBm
Maximum input power	0dBm～+6dBm
Interface type	SC、FC、LC
External interface	
Optical interface	SC、FC、LC

Standard for optical interfaces	100BASE-FX、1000BASE-FX、STM-1/4/16 fiber port
Wavelength	850nm、1310nm、1550nm
Fiber	Single-mode or multi-mode fiber
Twisted-pair electrical interface	RJ45
Twisted-pair interface standard	10Base-T、100Base-TX、1000Base-T
Management features	
Features of network management interface	Out band management interface: 10/100/MBASE-T adaptive Ethernet RJ45 port; Local management interface:DB9 RS232 serial port
Operating environment	
Temperature & humidity	0 ~ 45℃，10 ~ 90％，non-condensing
Store environment	
Temperature &humidity	-40 ~ 70℃，10 ~ 90％，non-condensing
Power supply	
Power and consumption	AC power: 90 ~ 260V，50~60Hz， DC power: -36～-72V（optical）， power consumption: <70W
Parameters	
Dimension	440mm×220mm×132mm
Styles	
C5004S	Single fiber 4 channels bidirectional concourse
C5008D	Dual fiber 8 channels bidirectional concourse
C5008S	Single fiber 8 channels bidirectional concourse
C50016D	Dual fiber 16 channels bidirectional concourse
parameters	
Data rate	10 Mbps ~ 1.25Gbps and 2.5Gbps
The most capacity	16 dual direction in a fiber
Management system	SNMP GUI and CLI（for performance/ alarm/ fault/ configuration management）
Type	2-8channels single direction, 2-16channels dual-direction
Distance	40km、60km、80km,110km (optional)
Topology	Point-to-point, point-to-multipoint
Shape	3U chassis

2.1.5 Order information

Model	Number of Optical Channels	Fiber	Interface	Power	CWDM Module
C5004S-SC/FC	4 bidirectional channels	Single-fiber single-mode	SC/FC	AC220V/ 50HZ	W5201 W5202 W5203 W5103
C5004S-SC/FC-48	4 bidirectional channels	Single-fiber single-mode	SC/FC	DC-48V	W5201 W5202 W5203 W5103
C5008D-SC/FC	8 bidirectional channels	Dual-fiber single-mode	SC/FC	AC220V/ 50HZ	W5201 W5202 W5203 W5103
C5008D-SC/FC-48	8 bidirectional channels	Dual-fiber single-mode	SC/FC	DC-48V	W5201 W5202 W5203 W5103

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