Spiktel

PRODUCT CATALOG

FIBER MULTIPLEXER

CWDM-MUX
modular access system

Interface Conversion

ST-2304-FA

Overview

CWDM-MUX modular access system is designed to transmit multi-protocol signal one same fiber between 2 end points. The whole system is supported by AN-CWDM-MUX series chassis and CWDW-M series Module cards. From 2 to 16 different signal streams between 2 points can be transmitted by one or a pair of fiber. Spiktel's 2303-FA CWDM-MUXseries 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.

CWDM-MUX 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 t he 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 for multiple data formats, such as E1, Fast Ethernet, Gigabit Ethernet, STM-1/4/16 interfaces and fiber channels.

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.

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Features

* Protocol: Seamless connection with Ethernet, SDH networks and fiber channels over same fiber;
* 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;
* Twisted-pair access: 10Base-T, 100Base-TX, 1000Base-T;
* Power supply: AC220V and 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 utilized together with other manufacturers' devices.
* Maximum capacity: 16 channels with dual fiber dark fiber
* Both topologies - Point to Point & Point to Multipoint supported
* Only 3U high
* 20 km 40km 60km 80km 110km distances as a ordering options

Specifications

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 bandwidth: +/- 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 Connector: SC/LC/FC

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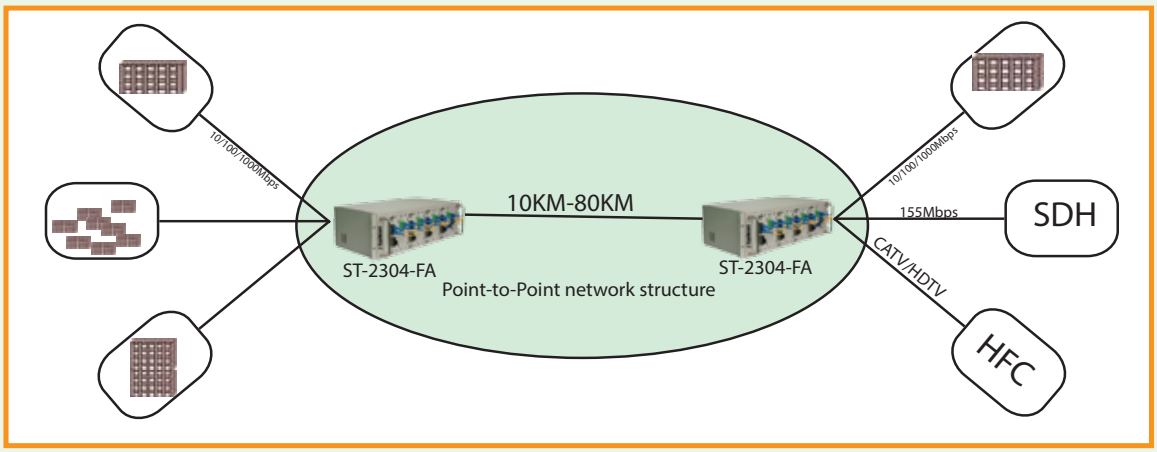
Specifications

External interface	Connector: SC/LC/FC Standard for optical interfaces: 100BASE-FX, 1000BASE-FX, STM-1/4/16 fiber ports are supported Wavelength's for above: 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
External interface	Temperature & Humidity: 0 ~ 45, 10 ~ 90 non-condensing
Storage environment	Temperature & Humidity: -40 ~ 45, 10 ~ 90 non-condensing
Power supply	AC power: 90 ~ 260V, 50~60Hz DC power: -36 -72V power consumption: <70W

Application Diagram



Ordering Information

Product	Descriptions
2304-FA/MUX4S	4 bidirectional channels over single fiber single mode, DC or AC
2304-FA/MUX8D	8 bidirectional channels over dual fiber single mode, DC or AC
2304-FA/MUX8S	8 bidirectional channels over single fiber single mode, DC or AC
2304-FA/MUX16D	16 bidirectional channels over dual fiber single mode, DC or AC

* Specs and Pictures of the product can be revised according to R&D
* Products design in UK.

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