Introduction

1.1 Product Description

EPON 24FE MDU is an EPON broadband access device for fulfilling FTTH request oftelecom operators, internet access of SOHO people . This product is basing on the stable and mature Gigabit EPON technology, which has high performance/price ratio, and the technology of layer 2 Ethernet switch as well. It is highly reliable and easy to maintain, with guaranteed QoS. And it is fully compliant to technical regulations such as IEEE802.3ah and technicalrequirement of EPON equipment (V2.1) from China Telecom, it can be used as a SFU or MDU.

Figure 1 EPON 24FE MDU

1.2 Product categories

Product model	Product specification
V5628-2A2	1 EPON+24FE

Table 1 Product categories

1.3Application Chart

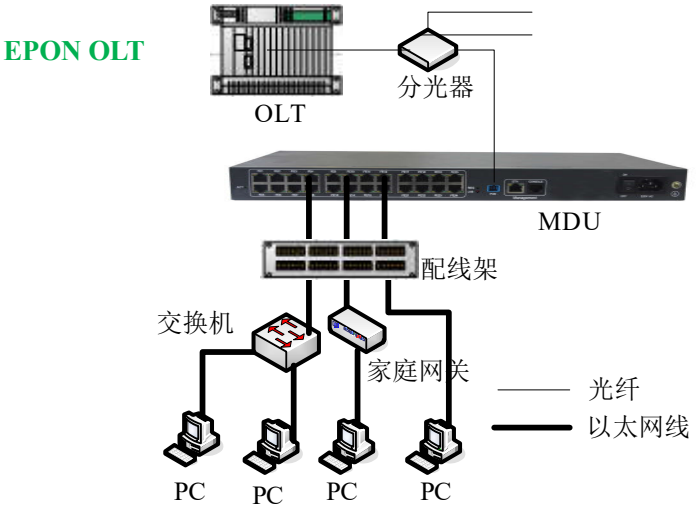

Figure 2 Application Chart

1.3 Technical parameters

Technical item	1GE
PON interface	1 EPON port(EPON PX20+) Wavelength:Tx1310nm,Rx 1490nm SC/UPC connector Receiving sensitivity: ≤-27dBm Transmitting optical power: 0~+4dBm Transmission distance: 20KM
LAN interface	24 x 10/100Mbps auto adaptive Ethernet interfaces. Full/Half, RJ45 connector
LED	27, For Status of ACT、PON 、LOS、FE1~24
Operating condition	Temperature: -25℃～+45℃ Humidity: 10%～90%（non-condensing）
Storing condition	Temperature : -30℃～+60℃ Humidity :10%～90%（non-condensing）
Power supply	AC 220V,50~60Hz
Power consumption	≤25W
Dimension	480mm×240mm×44.4mm（L×W×H）
Net weight	4Kg

Table 2 Technical parameters

1.4 Panel lights

LED	Colour	Status	Description
ACT	green	Blink	The device is working normal.
		On/Off	The device is working abnormal.
REG	green	On	The device is registered to the EPON system.
		Off	Device is not registered to the GPON system.
LOS	Red	On	Device does not receive optical signals.
		Off	Device has received optical signals.
FE1~24	Yellow(left)	On	Port is connected properly but no transmit data.
		Blink	Port is connected properly and transmit data.
	Green(right)	On	Port is connected properly.
		Off	Port connection exception or not connected.

Table 3 Panel lights on

1.6 Interface description

Port Type	Function
PON port	Connect PON port with internet by SC/PC type, single mode optical fiber cable.
Console	Local management and debug port.
Ethernet port FE1~FE24	Connect PC with Ethernet port by RJ-45 Cat5 cable.
Ground	Connect to the earth.
ETH(management)	Local download and debug ethernet port.
Power port (AC 220 V)	Connect with AC power.
Power turn on/off	Power turn on/off

Table 4 Interface description

1.7 Software Key Feature

Software Key Feature	
EPON port	Support IEEE802.3ah
Software mode	Bridging mode.
Line speed L2/L3 switch	All ports support line speed forwarding.
VLAN	Support VLAN number of 4096 Support IEEE802.1Q、IEEE802.1ad and VLAN transition
MAC address	MAC address depth is 16K, Unicast and multicast are Shared.

Multicast	IGMP v1/v2 IGMP snooping and IGMP Proxy Support across VLAN multicast.
Layer2	Support STP/RSTP user side ethernet interface protection function Support DHCP Option82 to report the physical location information of ethernet interface Support PPPoE+ Support configuration function for internet speed、working mode、flow control
QOS	Eight priority queues Supports 802.1p Supports QoS classification policies based on port、MAC address, VLAN ID、IPv4 and IPv6 differentiation services Support priority tagging
O&M	TELNET/OAM/CLI

Table 5 Software Key Feature