FTTx series products • OLT-1408 Series Technical Specification

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1.0 PRODUCT DESCRIPTION

OLT-1408's Optical Line Terminal (OLT) adopts GiGA Ethernet Passive Optical Network (EPON) technology. It is a compact chassis with L2/L3 GiGA switching and routing function. All the functional components are modularized design and it supports hot-plugging with plugging and playing. 1~4 pieces of GiGA optical port or electrical port are optional in the uplink port, which provides a direct optical interface for the Ethernet/IP network core. 1~8 pieces of EPON optical port are optional in the down link port. Through a passive optical Network (PON), an optical Network unit link (ONU), it can provide final transmission with bandwidth up to 1Gbps for the user.

OLT-1408, with the telecommunication-grade safe reliability and network management, also combines with the flexibility, high speed and economical efficiency of the EPON network-building. Besides, based on the high quality and high P/P ratio of Huatai products, it is an optimal transport platform for triple-play service in FTTx fiber access network.

2.0 PRODUCT FEATURE

Accord with IEEE802.3ah standard, speed: EPON.

Each EPON port supports 1:64 split (10km transmission).

Supports 1:32 split (20km transmission).

Compact 1U chassis, supports 512 ONU.

Modularized design, flexible choice of port type, 16km transmission, and can meet customers' different needs.

Advanced L2/L3 switching and routing function, abundant L2/L3 business.

QoS support: IEEE802.1p, IP Precedence, DSCP IP.

ONU client's authentication, DBA dynamic bandwidth allocation, ACL access control, MAC address limit, support OAM.

With AES-128 encryption.

Support multicast of IGMP Snooping video streaming.

Carrier-class safe reliability and NM. Remote diagnosis, control, and recombination.

Excellent price-performance industry

3.0 MAIN APPLICATION

Triple-play

FTTH, FTTP

4.0 Technical index

Chassis	Size: 443mm(W)×272mm(L)×43.6mm(D)			
0.1000.0	Weight: 12 pound			
	Option 2 piece redundant -48V DC. (allowance :-36 \sim -72V input)			
Power supply	Option 1 piece 110/220V AC. (allowance: 85~264V input)			
	Power consumption: 140W			
Fans tray	1 Fans tray (built-in 3 fans), cooling forcibly for GSM board			
	Function: band-in, band-out management, uplink down link switch and syntaxes			
GSM system control	Uplink: plug gable 4 Giga Ethernet SFP optical / electrical port			
board	MGNT port: RJ45 port supports 10/100Base-T band-out management			
	CONSOLE port: RJ45 port provides system diagnosis			
	COM port: RJ45 port provides alarm communication			
	Plug gable 2 LMT modules, power consumption ≤100W			
	1 LMT can be plug gable 4 SFP media converter, single board power consumption ${\leqslant}30\text{W}$			
	Each OLT port (SFP MC), after splitter, supports 64 ONU			
	Compliance: IEEE802.3ah			
	Fiber: single mode (SFP, Single Mode Fiber) connector: SC/APC			
LMT (Line Module Terminal)	Speed: 1Gbps(uplink down link)			
Terrimary	Optical wavelength: transmitter (TX): 1490nm, Receiver (RX): 1310nm			
	Link loss: 29dB			
	ONU subscriber approval :IEEE802.1X			
	Quality of service (QoS):IEEE802.1p			
	Dynamic bandwidth allocation (DBA): each ONU subscriber max bandwidth and ensure B/W allocation			

5.0 ADVANCED FEATURES

	Non-blocking line rate switching			
	Layer 2 IGMP			
	Port based VLAN, protocol based VLAN and 802.1q VLAN			
	IEEE 802.3ad link aggregation (trucking) and load balance			
Layer 2 switching functions	Packet mirroring per ingress/egress port			
	STP/RSTP (IEEE 802.1D) support			
	16K MAC table support			
	MAC management (Learning control, limit and aging) support			
	802.1X support for ONU AAA			
	L3 switching and full line speed support			
	Static Route, OSPF, ECMP support			
Layer 3 routing functions	PIM-SM, IGMP v2			
	ARP support (static ARP, proxy ARP per RFC1027, ARP per RFC826)			
	TCP/IP, ICMP per RFC792 support			
	Up to four QoS queues per subscriber			
	IEEE 802.1 p			
Quality of service (QoS)	IPv4 TOS priority			
and security	Egress rate shaping			
	Dynamic Bandwidth Allocation (DBA)			
	Access Control List (ACL)			
User authentication	IEEE 802.1x/Radius			
	FTP, SNMP v1 & v2c, DHCP, Telnet, console interface with CLI			
System management	In-Band/Out-of-band management			
	Environmental monitoring			

6.0 PRODUCT SERIES

	Module	Product description	Interface	Wavelength	Distance
	SFP-1G1/100M	10M/100M/100M adaptive	RJ45	copper	100m
		electrical interface module			
	SFP-1G/100M	Fixed Gigabit port	RJ45	copper	100m
		module stores			
	SFP-LC/550M-850	Gigabit multimode	LC	Tx:850nm	550m
Uplink		optical interface module			
transceiv	SFP-LC/10-1310	Gigabit single-mode	LC	Tx:1310nm	10Km
er		optical interface module			
options	SFP-LC/20-1310	Gigabit single-mode	LC	Tx:1310nm	20Km
		optical interface module			
	SFP-LC/80-1310	Gigabit single-mode	LC	Tx:1310nm	80Km
		optical interface module			
	SFP-LC/120-1310	Gigabit single-mode	LC	Tx:1310nm	120Km
		optical interface module			
Downlink	SFP-SC/20-EPON	EPON OLT transceiver	SC	Tx:1490nm	20Km
EPON		module		Rx:1310nm	
transceiv					
er					
options					

7.0 MODEL EXPLANATION

