Optical line Terminal (OLT)

ST-XT800

Product Overview :

In the intricate web of modern telecommunications, the OLT takes center stage as the key element in fiber networks. ST-XT800 orchestrates efficient data transmission over fiber optic cables. reliability, easy maintenance, can provide QoS guarantee for different services. Supports priority marking of ports or custom flows and provides 802.1p, DSCP-priority Remark capability; Each port/flow supports 8 priority queues and scheduler of SP, WRR andSP+WRR.

Products Features :

- ITU-T G.984.x/G.988;

- SN LOID/LOIDPassword/LOID+LOID Password authentication modes;

- Terminal access up to 60km on a single fiber;

- 1:128 split ratio on single PON port

- Support up to 128 ONUs in single port

- DBA algorithm, and the particle is for 64Kbit/s;

- Standard OMCI management function;

- ONU batch software upgrade;

- PON port optical parameter detection;

- Auto registeration ONU bound with default profile

- 1U 19 inch

- 1+1 power redundancy

- 16* fixed GPON port

- 4*GE COMBO port, 2*10GE SFP+

- 1* console port, 1*ETH port

L2 Features		
MAC	MAC Black Hole	
	Port MAC Limit	
	64K MAC (packet exchange chíp cache 2MB)	
VLAN	4K VLAN entries	
	Port-based VLAN classification	
	Uplink VLAN Swap and VLAN Remark	
Spanning Tree	STP/RSTP/MSTP	
	Loop detection	
Port	Support link aggregation	
	Port mirroring	
Service Port	Auto configuration service-port by profile	
	VLAN transparent/tag/stacking/aggregation	
Security Features		
User Security	Anti-ARP-spoofing	
	Anti-ARP-flooding	
	Port isolation	
	MAC address binding to the port and MAC address filtering	
Device Security	Support the control layer to prevent a variety of DOS attacks and virus attacks against the CPU	
	Hierarchical management and password protectionof users	
	SSHv2 Secure Shell	
	Login Security IP via Telnet	

Security Features	
Network Security	User-based MAC and ARP traffic examination
	Restrict ARP traffic of each user and force-out user with abnormal ARP traffic
	Dynamic ARP table-based binding
	IP+VLAN+MAC+Port binding
	L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet
	Port-based broadcast/multicast suppression and auto-shutdown risk port
	DHCP Option82 and PPPoE+ upload users physical location

Reliability	
Loop Protection	Loopback-detection
Link Protection	RSTP/MSTP (recover-time <1s)
	Link aggregation (recover-time <10ms)
Device Protection	1+1 power hot backup

Maintenance	
Network Maintenance	Port real-time, utilization and transmit/receive statistic
	Powerful WEB GUI
	GPON OMCI
	Data Logging and RFC 3164 BSD syslog Protocol
	Ping
Device Management	Console port, Telnet, SSH management
	Out-band management
	SNMPv1/v2
	RMON (Remote Monitoring)1,2,3,9 groups MIB; SNTP
	Fan management

Service Features	
QoS	Rate-limit to packet sending/receiving speed of port or self-defined flow and provide general flow monitor and two-speed tri-color monitor of self-defined flow
	CAR (Committed Access Rate), Traffic Shaping and flow statistics
	Packet mirror and redirection of interface and self-defined flow
	Supports priority marking of ports or custom flows and provides 802.1p, DSCP-priority Remark capability
	Super queue scheduler based on port or self-defined flow. Each port/flow supports 8 priority queues and scheduler of SP, WRR andSP+WRR
	Congestion Avoidance Mechanism, including Tail-Drop and WRED
ACL	Standard and extended ACL
	Time Range ACL; Flow classification and flow definition based onsource/destination MAC addressVLAN, 802.1p, ToS, DiffServ, source/destination IP(IPv4/IPv6) address, TCP/UDP port numberprotocol type, etc
	packet filtration of L2~L7 deep to 80 bytes of IP packet head
IPV4	DHCP Relay
	DHCP Server
	DHCP Snooping
	Static Routing
Multicast	IGMPv1/v2/v3 Snooping
	IGMP Fast leave
	IGMP Proxy
	Compatible with IGMP v3

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beyond the edge

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Product Specification:	
Switching CapacityCapacity	108Gbps
Forwarding Capacity (Ipv4/Ipv6)	95.23Mpps
Service Port	16*PON port, 4"GE COMBO port, 2*10GE SFP+ port
Redundancy Design	Dual power supply
	Support double AC input, double DC input and AC+DC input
Power Supply	AC: input 100~240V 50/60Hz
Power Consumption	60W
Dimension (Width x Depth x Height)	440mm x 44mm x 380mm
Weight (Full-Loaded)	≤5kg
Environmental Requirements	Working temperature:-10°C~55°C
	Storage temperature:-40C~70C
	Relative humidity: 10%~90%, non-condensing