



GE-PON-ONU

based on FE L2 switch

ST-3602-FX

Overview

3602-FX is an L2 switch devised as a PON MDU providing FTTx broadband multimedia service. With its rack mount design and ease of installation, the 3602-FX provides a cost effective way in supporting broadband connection to end users. When the switch is equipped with PON (passive optical network) expansion module, the reach distance of uplinks can be from 10Km up to 20Km. Besides the PON expansion module 3602-FX can also have optional 2-port 1000BASE-X module or optional 1000BASE-T for the active optical network connectivity. The qualities of service features facilitate the deployment of triple play services such as VoIP, IPTV, and high-speed internet access as much as desirable.

Specification

The 3602-FX supports comprehensive OAM functions for remote administration with SNMP v1/v2/v3 and provides easy-to-use management interface of Cisco-alike CLI through the Telnet and console.

Features

- * Up to 24 10/100Base-TX ports (Fixed)
- * 2 Option Module Slots: PON module along with 100Base-FX, 1000Base-T and 1000Base-X
- * Fully compliant of G.984.x set of standards
- * Power : AC/DC
- * 12.8 Gbps Non-Blocking Switch Fabric
- * Max 6.5 Mpps L2 Switching, 64MB Main Memory, 16MB Flash Memory
- * Up to 16K MAC Address Support for Switching
- * Up to 256 VLANs Support
- * Filtering : DHCP, NetBios, NBT, Mac, Broadcast Storm, IP Packet Filtering, IP-Subnetwork range blocking, Selective handling of specified IP address, Detection of IP address collision
- * Secure Network : DoS prevention, Warm virus Filtering
- * IEEE 802.1p, IEEE802.1Q, IEEE802.1D, IEEE802.3x
- * Rate Limit : @ 1Mbps (100M & Gigabit port)
- * Egress Traffic Shaping (Rate Limit) per Port
- * Ingress Traffic policing per flow/packet
- * VLAN, Multi VLAN, STP, RSTP, IGMP snooping & query
- * Port Trunking, Link Aggregation(802.3ad), Port enable/disable, Stacking
- * TFTP, CLI, Telnet, Syslog, SNMP*/*, RMON, Port Mirroring.

Hardware Specification

System Architecture & Console	24 fixed 10/100Base-TX ports (Auto-negotiation, Auto-Sensing, Auto MDI/MDIX) 2 Expansion Module for uplink RS-232C Serial Port (RJ-45 type)
UP Link Interface	GPON Optical Interface EPON Optical Interface 10/100BASE-TX (RJ-45) 1000BASE-T (RJ-45) 1000BASE-SX (SC Type) 1000BASE-LX (SC Type)

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	1000BASE-LH (SC Type) 100BASE-FX (SC Type)
Memory	64MB Main Memory 16MB Flash Memory
Physical Dimension	19 inch Rack Mount Type 44mm(H)x482.6mm(W)x260mm(D) Max 4Kg
Environment Conditions	
Power	AC, DC
Input power and frequency	110~220 VAC / 50~60 Hz, -44 ~ -52 VDC
Power consumption	Max 16.64 W
Temperature	0*~ 50* (Operation), -20~60* (Storage)
Storage temperature	-20*~ +60*
Performance	
Switching Fabric	12.8 Gbps non-blocking
Throughput	6.5 Mpps wire-speed L2 Switching
MAC Address	Up to 16K MAC Management
VLAN	Up to 256 VLAN Private Edge VLAN, 802.1Q Tag Vlan (Max 256 Tag Vlan) Link Aggregation (802.3ad) : 13 group, Max 8 port/group
Services and Features	
Filtering, Security & QoS	IEEE 802.1p QoS, Diff-serv support Congestion Management Filtering : Mac address, Mac address Count limit, Netbios, NBT, DHCP, Broadcast Storm, Selective handling of specified IP address, IP Packet filtering, Detection of IP address collision, IP Sub-network range blocking Virus Filtering : DoS prevention, Warm virus Filtering Subscriber Traffic control by ACLs (Access Control Lists)
Bandwidth Management	Hardware-based Rate Limiting Rate Limiting : 1Mbps per Ethernet port Rate Limiting : 1Mbps per Gigabit port Egress Traffic Shaping per Port Ingress Traffic Policing per Flow/Package Hardware Based Symmetric & Asymmetric Rate Limiting
Management	SNMP v1/v2, RMON, MIB-I/II Remote S/W Upgrade, Telnet, TFTP, FTP, Port Mirroring CLI, Syslog, Access level control for administrator, RADIUS
Functions	STP(802.1D), RSTP(802.1w) DHCP relay/DHCP snooping NTP (Network Time protocol) Client Jumbo Frame packet support : 9022byte Stacking & IP Clustering : Max 8 Stacking
Multicasting Protocol	IGMP v2.0, IGMP snooping, IGMP proxy-reporting
Standards	
IEEE Standards	802.1D Spanning Tree Protocol 802.1w RSTP 802.1p Priority Control 802.1Q VLAN

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	802.3 10Base-T Ethernet 802.3u 100Base-X Fast Ethernet 802.3x Flow Control 802.3ad Link Aggregation 802.3z 1000Base-X Gigabit Ethernet
IETF Standards	RFC 768 UDP RFC 791 IP RFC 903 TCP RFC 2131 DHCP Relay RFC 2236 IGMP v2 RFC 1112 IGMP
Management Standards & MIB	RFC 783 TFTP RFC 854 Telnet RFC 1157 SNMP v1 RFC 1213 MIB-I I RFC 1493 Bridge-MIB RFC 1757 RMON-MIB RFC 1902 SNMP v2 RFC 1907 SNMP-MIB RFC 1643 Ethernet-like Internet MIB



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