Open-Telecom, Inc.

OTS-G2016

Gigabit Ethernet Switch

OTS-G2016 is a Telco-Grade Gigabit Ethernet Switch suitable for IP based access network's concentrating equipment or solution for such construction as ETTH (Ethernet-to-the-home) and campus/internal building networking.

OTS-G2016 provides 16 of 10/100/1000Base-TX port for downlink and one slot for uplink – The uplink slot accommodates such uplink module as 1 port of 1000Base-X(SFP), 1Gbps GEPON(TEK,PMC).

OTS-G2016 supports not only high performance Layer 2 switching function, but also such additional Layer 2 functions as STP (Spanning Tree Protocol), Link aggregation, Port based VLAN, 802.1Q and stacking. The switch also has IGMP snooping and IGMP proxy functions which make it possible for effective multimedia multicast data transmission.

OTS-G2016 provides powerful packet filtering (Layer 1 ~ Layer 4) and QoS functions for service security and quality improvement. Using such packet filtering function, blocking harmful internet site and unauthorized data transmission can be achieved. Also the switch has such functions as NetBEUI/NetBIOS filtering, DHCP filtering, MAC restriction per port, and system and network protection from traffic attack are supported.

Features

High Performance Switching
- 56Gbp high performance switching fabric for high speed data transmission without traffic congestion in every single port.
- 16K MAC address table so as to high capacity packet switching
- Chip level Store-and Forward structure
- Powerful QoS with up to 8 priority queues and Layer 1~4 filtering functions.
- IGMP snooping, IGMP querier and IGMP proxy for multicasting network
- Ingress and egress rate limit per port by 1Mbps
- 4,095 VLANs
- No noise system without cooling FAN

Excellent operating management Features
- Easy management - SNMP, Syslog, Telnet, Console
- Remote software upgrade via TFTP and FTP.
- LEDs for Power, CPU Run, Uplink Threshold, Link/Act per port

Auto MDI/MDIX
- Auto detection of cable type (straight or Cross) and auto adaptation of port configuration

Various Interface
- Downlink Interface
  - 16 x 10/100/1000Base-Tx
- 1 slot for Optional Uplink Interface Module
  - 1 x 1000Base-X(SFP)
  - 1 x 1Gbps GEPON(TEK,PMC)

Specifications

Layer 2
- 802.1Q VLAN
- 16K MAC Entries
- Link aggregation (13 groups, 8 port per group)
- Spanning Tree Protocol per VLAN
- Loop-back detection and blocking
- Stacking up to 8 systems
- DHCP Relay (Option 82)
- Packet Dump
- IGMP Snooping, IGMP Querier, IGMP Proxy
- Auto MDI/MDX
- Virtual Cable test

Security
- Layer 1~4 Packet filtering (ACL)
- NetBEUI/BIOS/NBT Packet Filtering
- Private DHCP server blocking
- MAC address limit per port
- Ingress & egress speed limit per port by the unit of 1Mbps
- Broadcast/Multicast/DLF packet limit function
- Port flood guard to block abnormal traffic inflow
- Subscriber loop detection and blocking

Congestion Management
- HOL Blocking
- Back pressure
- 902.3x
- WRED congestion control

QoS
- 802.1 p Traffic control
- 8 priority queues per port
- DSCP Marking/Remarking
- SPQ, WRR, DRR

Operation
- Power : DC 12V/2.5A
- Power Consumption : Max. 22Watt
- Operation Temperature: 0° C ~40° C
- Operation Humidity: 0~90% non-condensing

Dimension: 250 x 180 x 40 mm (W x D x H)

Weight: Max. 1.5 kg

Standards Compliance
- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000BASE-X
- IEEE 802.3x Flow Control
- IEEE 802.1D Bridging
- IEEE 802.1d Spanning Tree
- IEEE 802.1p/Q
- RFC 768 UDP
- RFC 783 TFTP
- RFC 791 IP
- RFC 793 TCP
- RFC 792 ICMP
- RFC 826 ARP
- RFC 854 TELNET
- RFC 1213 SNMP MIB II
- RFC 1493 BRIDGE-MIB
- RFC 2233 IF-MIB
- RFC 2571-2575 SNMP
- RFC 2665 Ether Like-MIB
- RFC 1907 SNMPv2-MIB

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