

Overview

DSW5116 of DAYOU PLUS is medium capacity G-PON OLT systems for FTTH services depending network environment that can be used as a aggregation gigabit Ethernet L3 switch.

G-PON OLT for FTTH services can be operated at the same time in Ethernet services can operate as a single device in the network environment, the system is flexible and responsive.



DSW5116

Multi service

- G-PON OLT for FTTH services can be operated at the same time in Ethernet services can operate as a single device in the network environment, the system is flexible and responsive.
- FTTH G-PON service is up to 40 ports and 2 10G uplink ports or 8 Gigabit Ethernet ports operate.

High performance service

- Non-blocking switch fabric fast stable performance, and speed up to 178Mpps and 240Gbps switching capacity

Redundancy

- Power, System Controller/Switch Unit, PON-Link, All redundant by implementing a complete system that can ensure stable service.

Network and System Management

- SNMP v1/v2/v3, MIB II apply the remote management of the network can be more easily
- CLI and USB port to OS (firmware) upgrade is available on the system configuration and operation raised more convenient.

Security Features

- Authentication protocol RADIUS and TACACS + as an administrator that only authorized users can access the relevant equipment to ensure the security of the system management and network management raised

Key Features

L2 Features

- Port-based VLAN, IEEE 802.1q Tagged VLAN
- VLAN stacking (Q-in-Q)/VLAN Translation
- 802.1p packet priority
- Spanning Tree Protocol(STP/RSTP/MSTP)
- 802.3ad Link Aggregation Control Protocol
- Jumbo frame 9KB
- Self loop detection

L3 Features

- Static Routing, RIP v1/v2, OSPF v2, BGP v4, VRRP
- Multiple default gateway

G-PON

- Compliance with G-PON OLT ITU-T G.984
- ITU-T G.984 OMCI. ITU-T 984.3 DBA(SR/NSR)
- Up to 60Km logical reach, 128bit AES, FEC
- ONU/ONT management : Vlan operation, QoS, filter, Rouge ONU, VoIP(SIP), SW upgrade

Redundancy

- Control/Switch redundancy (Active/Standby)
- GPON-Link redundancy

Multicast

- IGMP v1/v2/v3
- IGMP snooping / IGMP static join
- IGMP redundancy proxy
- PIM-SM/SSM

QoS

- Classification
 - L2 : SRC/DST MAC, Ether type, 802.1p priority, VLAN ID
 - L3 : SRC/DST IP, TOS, DSCP, IP Precedence
 - L4 : SRC/DST TCP/UDP port, ICMP
- Mark/remark/policing
- Traffic scheduling (SPQ, WRR, SPQ+WRR, DWRR)
- 8 queues per port, Mark/remark/policing
- Traffic policing and shaping, Rate limiting

Security

- ALC (Access Control Lists)
- Storm control (broadcast, multicast, DLF)
- IP packet filtering, DoS Protection
- NetBIOS, NetBEUI, NBT, CIFS, SSDP, WSDD filtering

Management

- CLI(serial / Telnet)
- Dual OS (firmware)
- Remote OS upgrade (FTP/ TFTP)
- Multiple configuration files
- Remote configuration upgrade (FTP/TFTP)
- Port/Protocol mirroring
- SNMP v1/v2/v3
- RMON history
- Syslog
- DHCP server, relay agent with option82
- RADIUS, TACACS+, SSH
- PPPoE Intermediate Agent
- Ethernet OAM (802.3ah EFM Standard Full support)

Specifications

Memory

- RAM 1Gbyte
- FLASH 128Mbyte

Interface

- GEU (Gigabit Ethernet Unit) Mount up to 12 possible
-4port 100/1000BASE-X(SFP)
- XEU (10Gigabit Ethernet Unit) Mount up to 2 possible
-1ports 10GbE (XFP)
- GPU (G-PON Unit) Mount up to 10 possible
-4port GPON
- SCU (Switch Control Unit)
-Mount up to 2 possible (Redundancy)
-MGMT port (10/100BASE-T, RJ-45)
-Console port (RS232C, baudrate 9600, RJ-45)
-Mirror port (1000BASE-T, RJ45)
-USB port, Alarm Out, Telemetry

Protocol

IEEE 802.1D STP
 IEEE 802.1p Priority and Class of Service
 IEEE 802.1Q VLAN
 IEEE 802.1s Multiple STP configuration
 IEEE 802.1w Rapid STP configuration
 IEEE 802.3 10BaseT Ethernet
 IEEE 802.3u Fast Ethernet
 IEEE 802.3x Flow control
 IEEE 802.3z Gigabit Ethernet
 IEEE 802.3ad Link Aggregation
 ITU-T G.984.1 G-PON General Characteristics
 ITU-T G.984.2 G-PON Physical Media Dependent Layer
 ITU-T G.984.3 G-PON Transmission Convergence Layer
 ITU-T G.984.4 G-PON ONT Management and Control Interface(OMCI)
 ITU-T G.652 Characteristics of a Single-Mode Optical Fiber Cable
 RFC 3261 SIP

Power

- Operating Power AC 88V~264/ VAC
50~60Hz Free Voltage
- Power Consumption 540Watts(5V * 6A)
- Operating Temperature 0°C ~50°C
- Operating Humidity 10 ~ 95%(Non-condensing)

Dimensions

- Dimension(W/H/D) 430mm x 390mm x 240mm

Warranty

- One-year(12month) return to factory parts

Performance

- 240Gbps Switching fabric, 178Mpps Throughput
- 32K MAC address
- 4K 802.1Q VLAN, 16K L3 Table(V4), 8K L3Table(V6)
- 16K LPM(V4), 8K LPM(V6)
- 1K Multicast(L2), 4K Multicast(L3)

RFC768 UDP
 RFC783 TFTP
 RFC791 IP
 RFC792 ICMP
 RFC793 TCP
 RFC826 ARP
 RFC854 Telnet
 RFC959 FTP
 RFC1058 RIP v1,2
 RFC112 IGMP
 RFC1157 SNMP v1
 RFC1213 MIB II
 RFC1215 Traps
 RFC1293 Inverse ARP
 RFC1305 NTPv3
 RFC1350 TFTP
 RFC1492 TACACS+
 RFC1493 Bridge MIB
 RFC1643 Ethernet MIB
 RFC1757 RMON MIB (4 groups)
 RFC1771 BGP v4
 RFC1905 SNMP v2
 RFC 2021, 2074 RMON II
 RFC2138 RADIUS
 RFC2233 Interface MIB
 RFC 2236 IGMP v2
 RFC 2271 SNMP
 RFC 2274 SNMP v3
 RFC 2328 OSPF
 RFC 2338 VRRP
 RFC 2362 PIM-SM
 RFC 3569 PIM-SSM
 RFC 3046 DHCP Server/Relay
 RFC 3195 Syslog
 RFC 3376 IGMP v3

Ordering Information

Contact Information

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