

Aggregation Switch Solution

P8824XG

Features

- High-speed & high-capacity service for communication enterprises
- IPv6, routing, multicasting & QoS for IP-TV & TPS service
- 20-Ports 1000Base-X(SFP) or 100Base-FX(SFP)
- 4-Ports 1000Base-X(SFP) or 10/100/1000Base-Tx (Combo Type)
- 2 Ports 10G Base-R(XFP)
- 2 slots for 10G Base-R interface module
- Module Type of Power Supply Unit
- Hot swapping enabled



System Overview

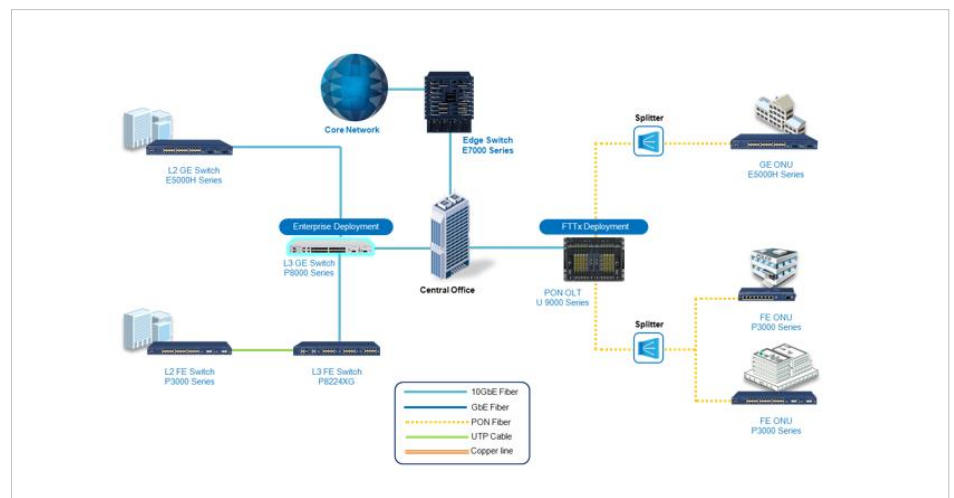
P8824XG is a Gigabit L3 switch that delivers remarkable efficiency and reliability for robust switching at the CO aggregation or enterprise network edge. It is furnished with routing, multicasting, QoS (Quality of Service) functions suitable for IP-TV, mission critical data, and voice services.

Considering the connection possibility with existing device which have RJ-45 type connectors, P8824XG supports 4-Ports of 10/100/1000 Base-T interface as Combo Type. It basically has 24-Ports 1000 Base-X and optionally 2-Ports of 10Gbase-R (XFP type). Especially, in case of FX Module, the capacity expansion can be achieved by unit of port so that it can be helpful for scalable augmentation. All 24 ports of the switch are managed en bloc for efficiency, including power module insertion/extraction and Cisco-like CLI.

P8824XG is a 1U-sized switch applied for spatial efficiency and easy installation. System stability is optimized by supporting hardware based distributed switching and hot-swapping for each module, and system extension while operating is carried out without service interruption.

P8824XG makes use of high-speed non-blocking switch fabric. It also supports bandwidth management and QoS; therefore, service providers can offer differentiated IP services corresponding to applied service or SLA (Service Level Agreement). P8824XG's hardware-based multi-routing protocols provide never-before-seen functions among existing software-based routers.

Deployment Diagram



ubiQuoss Inc.

68, Pangyo-ro, 255beon-gil,

Bundang-gu, Seongnam-si,

Gyeonggi-do, 463-400, Korea

TEL : +82-70-4865-0570

FAX : +82-31-8017-1184

URL : www.ubiquoss.com

oversea.group@ubiquoss.com

Specification

HW Specification

System Architecture & Console

- Gigabit Ethernet Switch : max 24 Port
- 20-Ports 1000Base-X (SFP) or 100Base-FX(SFP)
- 4-Ports 1000Base-X(SFP) or 10/100/1000Base-Tx (Combo Type)
- Expansion Module : 2-Ports 10G Base-R
- Dual AC/DC Power (Module Type)

Memory

- 256MB Main Memory
- 32MB Flash Memory

Physical Dimension

- 19" Rack Mount Type
- 44mm(H)x437mm(W, Rack Guide included 482.6mm)x335mm(D)

Environment Condition

Power

- 110~220 VAC / 50~60 Hz, -44 ~ -52 VDC
- (optional : Hot-swapping Redundant)

Power consumption

- Max 58.5 W

Operating Temperature

- 0 ~ 60°C

Storage Temperature

- -20 ~ 70°C

Performance

Switch Fabric Performance

- 88 Gbps non-blocking

Throughput

- 65.4 Mpps wire-speed Switching

Capacity

MAC Address

- Up to 32K MAC Management

VLAN

- Up to 4K VLAN
- Private VLAN, 802.1Q Tag VLAN (Max 4K Tag VLAN)
- Link Aggregation (802.3ad) : 13 group, Max 8port/group
- 802.1v protocol base VLAN, VMAN(Ether9100, QinQ)

Services and features

Routing Protocol

- RIP v1/v2, OSPF v2, BGP v4, Static
- Default gateway, Multiple Default gateway
- Loop-back interface, VRRP

Filtering, Security & QoS

- IEEE 802.1x support
- IEEE 802.1p QoS
- ToS
- Diff-serv support
- Congestion Management
- Filtering : Mac address, Mac address Count limit, Netbios, NBT, DHCP, Broadcast Storm, Specific IP check and control, IP Packet filtering, IP collision detection, IP Sub-network band blocking
- Virus Filtering : DoS prevention, Warm virus Filtering
- Subscriber Traffic control by ACLs

Bandwidth Management

- Hardware-based Rate Limiting
- Rate Limiting : 1Mbps per Gigabit port
- Egress Traffic Shaping per Port
- Ingress Traffic Policy per Flow/Packet
- Hardware Based Symmetric & Asymmetric Rate Limiting

Management

- SNMP v1/v2
- RMON, MIB-I/II
- sFlow, tcpDump
- Remote S/W Upgrade
- Telnet, TFTP, FTP
- Port Mirroring, CLI, Syslog
- Access level control for administrator
- RADIUS, TACACS+, SSH

Functions

- STP(802.1D), RSTP(802.1w), PVSTP
- DHCP server & relay
- NTP (Network Time protocol) server & Client
- Jumbo Frame packet support : 10290byte (Giga)

Multicasting Protocol

- IGMP v1, v2, v3
- IGMP snooping
- IGMP snooping fast leave
- IGMP snooping suppression
- IGMP proxy
- PIM-SM
- PIM-SSM

ubiQuoss

Seamless Network Solution

All IP Convergence

Perfective Technology

The best partner of the main Internet Service Providers in Korea

Best OAM (Operation, Administration, Maintenance) Support

Many Experience of System Deployment