

Aggregation Switch Solution

P8424FG

Features

- High speed and high capacity service
- for service providers
- Processing high-capacity traffics
- Long distance connection based on various optical interfaces
- 48Gbps Non-Blocking Switch Fabric
- Max. 36Mpps throughput
- 24port Giga Combo type
- Hot-Swapping function
- Stable hardware-based Wire-speed switching and routing
- All the ports support wire-speed
- Layer 3 switching network structure
- Wire-speed Internet Protocol(IP) switching and routing



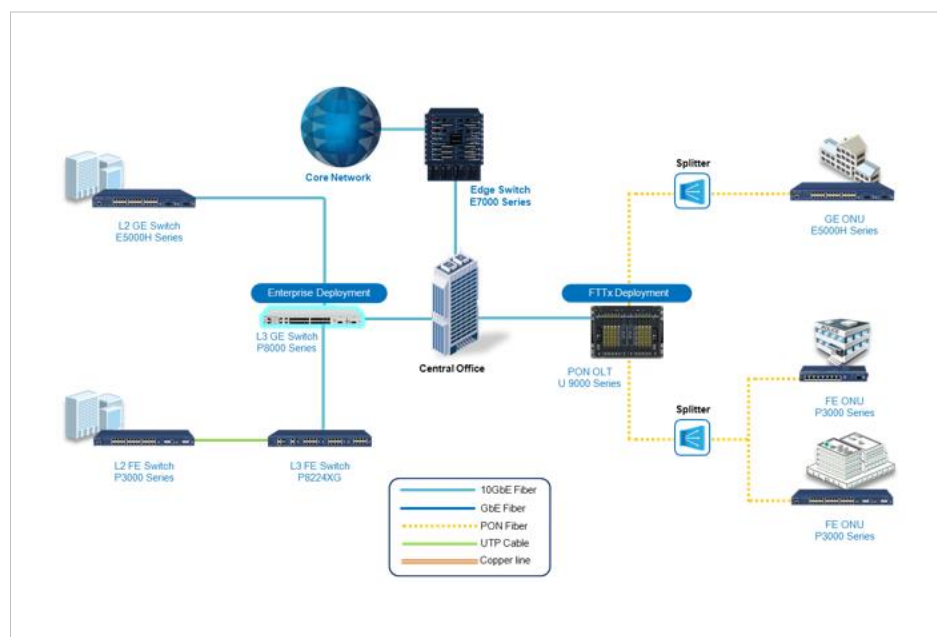
System Overview

P8424FG is a high performance switch to be placed in the access segment of a metro IP network. P8424FG can support high speed broadband multimedia services covering all the levels of Layer 2/3/4. It is equipped with highly improved routing, multicasting and QoS (Quality of Service) features.

P8424FG is intended to be placed between traffic aggregation switches and a high performance backbone switch to transmit data between them, allowing enterprises and service providers to build a gigabit backbone network conveniently.

P8424FG can handle bi-directional traffics between metro switches through the layer 2/3/4 switching function, since its layer 2 switching and layer 3 routing is based on hardware. It supports full duplex communication at each port, thus the available bandwidth of a link can be doubled since full duplex communication allows simultaneous transmission of data frames.

Deployment Diagram



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Specification

HW Specification

System Architecture & Console

- Interface Type
 - 24 Ports 1G Combo Type(UTP/SFP)
- Management port : RJ-45 port (10/100Mbps)
- Console : RS-232C Serial Port (RJ-45 type)

Memory

- 256MB Main Memory
- 64MB Flash Memory

Physical Dimension

- 19" Rack mountable size
- 44mm(H) x 437mm(W) x 330mm(D)

Environment Condition

Power

- AC, DC (Dual power supply) Hot-Swapping
- 110~220 VAC / 50~60 Hz, -42 ~ -52 VDC

Power consumption

- Max 65 W

Operating Temperature

- 0 ~ 50°C

Storage Temperature

- -20 ~ 60°C

Performance

Switch Fabric Performance

- 48 Gbps non-blocking

Throughput

- 36 Mpps wire-speed Switching

Capacity

MAC Address

- Up to 32K MAC Management

VLAN

- 4 K VLAN
- Overlap VLAN, 8021.Q Tag Vlan (Max 4K Tag Vlan)
- Link Aggregation (802.3ad)
 - 12 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, VRRP
- Default gateway, Multiple Default gateway
- Loop-back interface
- PIM-SM, DVMRP

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
- Admin permission control
- RADIUS, TACACS+, SSH

Functions

- STP(802.1D)
- RSTP(802.1w)
- PVSTP
- DHCP server (IP address 2000+) & relay (2+)
- NTP (Network Time protocol) server & Client, NAT
- Jumbo Frame packet support : 10290byte (Giga)

Multicasting Protocol

- IGMP v1, v2
- IGMP snooping
- IGMP snooping fast leave
- IGMP snooping suppression,
- Multicast group 1,000+
- 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