

Core/Edge Switch Solution

E7508

Features

- Modular basis high availability architecture
- Active/Stand-by redundancy
- Two Main control processor modules
- Hot swap support
- 'Install as you grow' interfaces
- Up to 24 *10Gigabit Ethernet ports
- Up to 144 * Gigabit Ethernet ports / 288 * Gigabit Ethernet ports
- Power redundancy supporting N+1 and N+N
- Switching capacity of 720Gbps
- Full wire speed throughput of 428Mpps



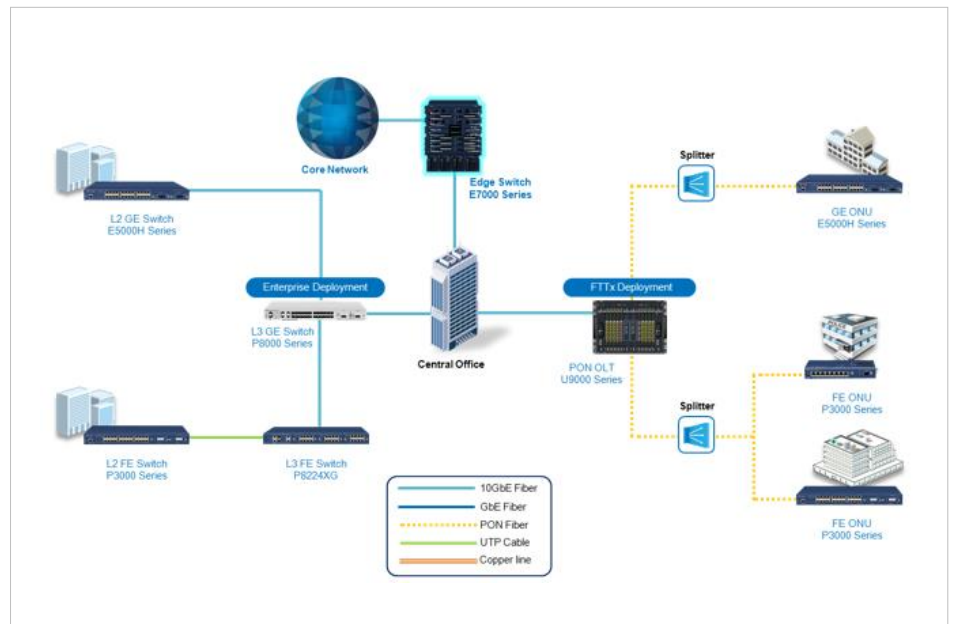
System Overview

E7508 is a high efficient multilayer switch that fulfills the HA (high availability) and resilience requirements expected from the enterprise network backbone or Telco's network edge equipment. As the customer demands arise you can equip the system with GE and 10GE interface modules in gradual fashion so that the system can provide 720Gbps of switching capacity and 428Mpps throughput. The switching and control part and power supply modules in the system are redundantly constructed with active-standby structure, which are accompanied by virtualization technology.

As an Edge grade switching platform E7508 supports the latest versions of unicast and multicast routing protocols for effective interworking with other facing networks. And with the high density service interfaces of 144GE/288GE ports E7508 can be directly associated with public network or construct its own network by building up local loop.

In order to effectively process the various types of traffic which are generated from the different user segments E7508 has adopted sophisticated QoS technology and policy rules. These implementation along with Netflow monitoring tools which is enabled by using an independent NP (Network Processor) can achieve the best optimized traffic processing quality.

Deployment Diagram



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Specification

HW Specification

System Architecture & Console

- 288-Ports 1000Base-X (SFP) or 100Base-FX(SFP)
- 288-Ports 10/100/1000Base-T
- 24-Ports 10G Base-R
- 4 Power Module either in AC or DC (Optional)

Memory

- 2 GB Main Memory, 128MB Flash Memory

Physical Dimension

- 19" Rack Mount Type
- 482mm(H)x577mm(W)x433mm(D)

Environment Condition

Power source

- DC (Hot-swappable and Redundantly configured as N+1, N+N)
- DC source: -48 VDC

Power consumption

- Maximum 912W

Operating Temperature

- 0 ~ 50°C

Storage Temperature

- -20 ~ 60°C

Performance

Switch Fabric Performance

- 720 Gbps non-blocking

Throughput

- 428 Mpps wire-speed L2/L3 Switching/Routing

Capacity

MAC Address

- Up to 32K MAC Management

VLAN

- Up to 4K VLAN
- Private VLAN, 802.1Q Tag VLAN (Max 4K Tag VLAN)
- 802.1ad Q-in-Q
- Link Aggregation (802.3ad) : 255 group, Max 8port/group

SW Specification

Routing Protocol

- RIP v1/v2, BGP v4, Static
- OSPFv2/OSPFv3
- Default gateway, Multiple Default gateway
- MPLS, MPLS VPN
- Loop-back interface
- VRRP

Filtering, Security & QoS

- IEEE 802.1x support
- IEEE 802.1p QoS, ToS, Diff-serv support
- Congestion Management
- 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 Gigabit port
- Egress Traffic Shaping per Port
- Ingress Traffic Policing per Flow/Packet

Management

- SNMP v1/v2/v3, RMON, MIB-I/II
- NetFlow,
- 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), MSTP(802.1s)
- 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, PIM-DM

ubiQuoss

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