

# Switch Product

■ Datasheet

## E50XXH

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## Layer2 스위치 솔루션 >> E5008H, E5016H, E5024H

### 기가급 L2 워크그룹 스위치



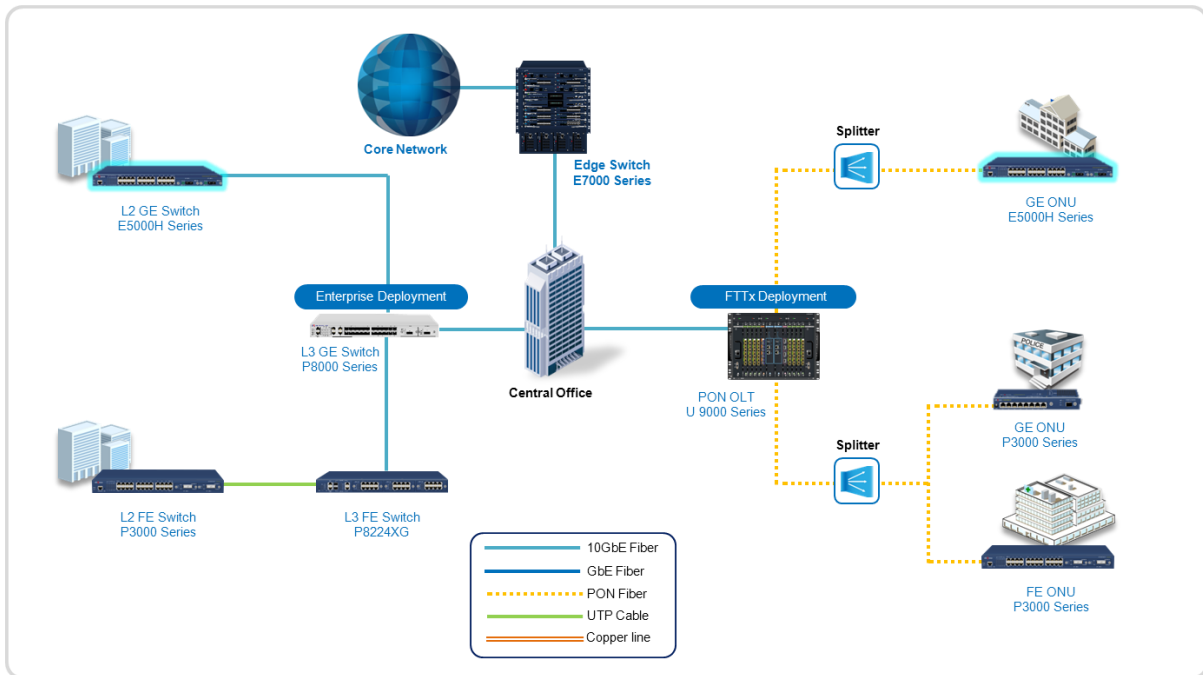
## 소개

E5008H, E5016H, E5024H 스위치는 IP-TV, VoIP, VOD 등 IP 기반의 다양한 서비스와 콘텐츠가 늘어나면서 가입자의 소요 대역폭이 증가하고, 특히 주거 환경의 고급화 되고 가정까지 광케이블이 제공 가능한 환경이 증가하면서 저비용으로 최대의 효율을 제공할 수 있는 시스템의 필요성이 대두되어 개발된 Gigabit Ethernet 급의 Layer 2 스위치 장비입니다. 본 제품의 서비스 인터페이스는 모두 10/100/1000Base-T의 Gigabit Ethernet 포트로 구성되어 있습니다. 또한 Uplink로 GbE, 10GbE, PON interface로 제공합니다.

E5008H, E5016H, E5024H 스위치는 IPv6를 지원하며, 하드웨어 기반의 대역폭 관리 기능 (Rate Limiting)과 QoS (Quality-of-Service) 기능을 지원하여 차세대 인터넷 환경에 적합한 휴대인터넷, 홈 네트워크 및 차별화된 IP 서비스를 제공할 수 있습니다.

또한 차별화된 서비스를 위한 QoS 기능, 보안을 위한 각종 필터링 기능 및 호스트 정보보호 기능, 효율적인 서비스 운용을 위한 트래픽 모니터링 기능 등 소프트웨어 상의 검증된 기술들이 적용되어 있습니다. 특히 본 장비가 놓이는 환경과 운용자와의 원격성을 고려하여 시스템 상의 발생 가능한 문제를 모니터링하다가 필요할 경우 원격 리셋 또는 자동 리셋을 수행할 수 있습니다.

## 망구성



## 특징

- 24 10/100/1000 Base-T ports (Fixed)
- 2-Port 1000Base-T or 4 Port 1000Base-X (SFP) Combo (Dual Purpose)
- 2port 10Gbase-X(XFP)
- 1Port 10Gbase-X(XFP) + 1Port EPON
- 1Port 10Gbase-X(XFP) + 1Port 1000Base-X/1000Base-T(Combo)
- Power : AC
- Up to 256 VLANs Support
- Filtering : DHCP, NetBios, NBT, Mac, Broadcast Storm, IP Packet Filtering, IP-Subnetwork range blocking, Selective handling of specified IP address, Detection of IP address collision
- Secure Network : DoS prevention, Worm virus Filtering
- IEEE 802.1p, IEEE802.1Q, IEEE802.1D, IEEE802.3x
- Egress Traffic Shaping (Rate Limit) per Port
- Ingress Traffic policing per flow/packet
- VLAN, Multi VLAN, STP/RSTP/MSTP, IGMP snooping & snooping querier
- Port Trunking, Link Aggregation(802.3ad),
- TFTP, CLI, Telnet, Syslog, SNMP v1/v2/v3, RMON, Port Mirroring.

## 사양

시스템 사양	
System Architecture	E5024H - Down Link : 24Port 10/100/1000Base-T - UP Link : 2port 1000Base-X/1000Base-T(Combo) 1Port 1000Base-X/1000Base-T(Combo)+ 1Port EPON 2port 10Gbase-X(XFP) 1Port 10Gbase-X(XFP) + 1Port EPON 1Port 10Gbase-X(XFP) + 1Port 1000Base-X/1000Base-T(Combo)
	E5016H - Down Link : 16 PORTS 10/100/1000Base-T - UP Link : 1Port 1000Base-X/1000Base-T(Combo), 1Port EPON, 1Port 10Gbase-X(XFP)
	E5008H: 구내단자함 내 설치 - Down Link : 8 PORTS 10/100/1000Base-T - UP Link : 1Port 1000Base-X/1000Base-T(Combo), 1Port EPON, 1Port 10Gbase-X(XFP)
Main Processor	Broadcom BCM53001
Switching Chip	Broadcom BCM56142
Console	RJ-45 type RS-232C Serial port(RJ-45 type)
Memory	256MB DDR2 SDRAM Main Memory, 1MB Boot/ 128MB OS Flash Memory
Physical Dimension	19" Rack Mount type(1U)
	E5024H : 437mm(W, Rack mount 포함 482.6mm )x 220mm(D) x 44mm(H)
	E5016H : 250mm(W) x 178.8mm(D) x 39mm(H)
	E5008H : 240mm(W) x 149.5mm(D) x 30mm(H)
환경조건	
Input voltage and Frequency	E5024H: 100~240 VAC / 50~60 Hz SMPS 일체형 E5016H, E5008H : 100~240 VAC / 50~60 Hz Adapter
Power Consumption	E5024H: 34.6W E5016H: 23W E5008H: 16.8W
Operating Temperature	E5024H: -20°C ~ 60°C E5016H: 0°C ~ 40°C E5008H: 0°C ~ 40°C
Storage Temperature	-30 ~ 70 °C
Operating Humidity	10 ~ 90 % relative humidity, non condensing
인터페이스	
Interface Type	업링크 E5024H(최대 2 포트) 1000/100Base-X(SFP), 10/100/1000Base-TX, E-PON 10GE XFP E5016H/E5008H(최대 1 포트) 1000/100Base-X(SFP), 10/100/1000Base-TX,

	E-PON, 10GE XFP
	다운링크 E5024H/E5016H/E5008H : Port 10/100/1000Base-TX
Console	RS-232C Serial Port (RJ-45 type)
<b>성능</b>	
Switch Fabric	E5024H: 양방향 126G(System capacity: 88Gbps) E5016H: 양방향 126G(System capacity: 52Gbps) E5008H: 양방향 126G(System capacity: 36Gbps)
Throughput	E5024H: 65Mpps E5016H: 38Mbps E5008H: 26Mbps
<b>용량</b>	
VLAN 지원 수	E5024H/E5016H/E5008H : Up to 256 VLANs
Mac Address 지원 수	E5024H/E5016H/E5008H: Up to 16K
<b>서비스와 특징</b>	
Filtering and Security &QoS	IEEE 802.1p QoS, Diff-serv support, Congestion Management Filtering: Mac address, Mac address Count limit, Netbios, NBT, TCP Sync cookies ,ether type 88d9/86dd, private-ip, TCP RST-UNKnown, Martian-Filter, DHCP, Broadcast Storm, selective handling of specified IP address, IP Packet filtering, detection of IP address collision Virus Filtering: DoS prevention, Warm virus Filtering Subscriber Traffic control by ACLs (Access Control Lists) Packet classification and Marking/ Remarking Queue: 8, SPQ, WRR, DRR, SPQ+WRR, SPQ+DRR Rate Limit (ingress rate-limit , Egress shaping per port) DAI(Dynamic arp inspection) support Service differentiation for Control Packet (Ping, Telnet, SNMP, FTP, TFTP, etc)
Management	SNMP v1/v2, RMON, MIB-I/II, log flash, Subscriber (Block/unblock), Last MAC Management, Remote S/W Upgrade, Telnet, TFTP, FTP, Port Mirroring, CLI, Syslog, Access level control for administrator Radius, TACAS+
L2 Function	STP(802.1D), RSTP(802.1w), Self-Loop controlled DHCP relay/DHCP snooping, DHCP option 82 DHCP request flooding attack guard(dhcp snoop rate-limit) Storm-control (L2DLF,Broadcast,Multicast), Flood-Guard (pps control), CPU Filter(IP+TCP/UDP PORT NO) NTP (Network Time protocol) Client Jumbo Frame packet support: 9022byte External/ Internal Calibration support Stacking & IP Clustering: 8 Clustering Remote-reset support(EPON/AON) Dying-Gasp support(EPON/AON) Auto-reset support EEE(802.3az) support port flow-control state detection support Supports up to 10 Telnet sessions

	IPv4/IPv6 H/W ready
Multicasting Protocol	IGMP v2.0, IGMP snooping, 512group support, IGMP query, IGMP Join/Leave Suppression, IGMP Fast Leave, IGMP Static Join, IGMP proxy reporting unknown multicast block
<b>표준</b>	
IEEE Standatds	802.1D Spanning Tree Protocol 802.1w RSTP 802.1p Priority Control 802.1Q VLAN 802.3 10Base-T Ethernet 802.3u 100Base-X Fast Ethernet 802.3x Flow Control 802.3ad Link Aggregation 802.3z 1000Base-X Gigabit Ethernet
IETF Standards	RFC 768 UDP RFC 791 IP RFC 903 TCP RFC 2131 DHCP Relay RFC 2236 IGMP v2 RFC 1112 IGMP
Management Standards & MIB	RFC 783 TFTP RFC 854 Telnet RFC 1157 SNMP v1 RFC 1213 MIB-I I RFC 1493 Bridge-MIB RFC 1757 RMON-MIB RFC 1902 SNMP v2 RFC 1907 SNMP-MIB RFC 1643 Ethernet-like Internet MIB