QSW-4416CM

16 × 1G/2.5G, RJ45 + 4 × 1G/10G SFP+ L2+ Managed Ethernet Switch

NEW



The next generation Ethernet switch in high-density port configuration leveraged NBase-T multigigabit technology, QSW-4416CM, is designed for enterprise or service provider to migrate to the reliable and secure Ethernet based high speed network access by connecting the existed Cat5e/Cat6 cabling infrastructure from 1Gbps to multigigabit speed. It is ideal solution to save your investment without disruptive and expensive wiring reconstruction required for offering more bandwidth capacity.

The latest content richer application and technology such as WiFi 6E/7 wireless access and 4K UHD video streaming or IP surveillance make the standard gigabit reveal the problem of bandwidth insufficiency. QSW-4416CM is equipped 16 ports 1G/2.5G RJ45 and 4 slots 1G/10G SFP+ uplink. It offers 2.5Gbps and 10Gbps connectivity to fulfill the bandwidth consumed popular network gears.

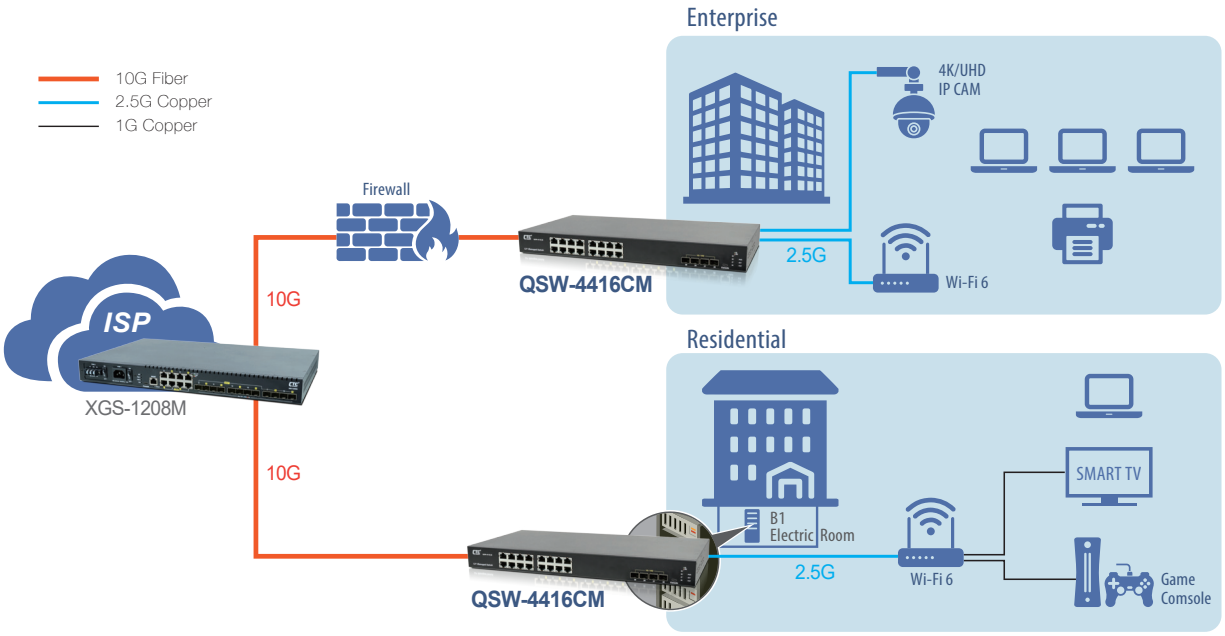
It is featured completely L2+ switch functionality which guarantees high network availability, robust network access and security as well as comprehensive QoS in the network edge. It will deliver the benefits of optimal traffic transportation performance and lower ownership cost while maintaining the network deployment simply.

Specifications

Interface	Fiber port: 4x 1G/10G SFP+	
	Copper port: 16x 1G/2.5G RJ45	
	Console port: RS-232 in USB type C	
Packet Forwarding Rate	14880pps	@10Mbps
	148800pps	@100Mbps
	1488000pps	@1000Mbps
	3720000pps	@2.5Gbps
	14880000pps	@10Gbps
Switching Fabric Capacity	160Gbps	
Transmission Method	Store and Forward Switching	
Packet Buffer	32M bits	
MAC Table Size	32K	
Jumbo Frame Size	10K Bytes	
VLAN Feature	IEEE 802.1Q tagged VLAN (4K VLAN groups), IEEE 802.1ad QinQ VLAN	
	Voice VLAN, MAC based VLAN, Protocol based VLAN, IP subnet based VLAN	
	Private VLAN for port isolation, VLAN translation, GVRP(GARP VLAN registration protocol)	
Link Aggregation	Static trunk (SA, DA, IP, TCP/UDP port), IEEE 802.1AX	
	IEEE 802.3ad LACP, 10 LACP trunk groups Max; 8 port Max. per LACP trunk group	
L2 switching Protection	IEEE 802.1D STP/IEEE 802.1w RSTP/IEEE 802.1s MSTP, Loop Protection	
QoS Feature	Hard wired IEEE 802.1p 8 priority queues per port, Traffic scheduling based on strict/WRR priority	
	CoS based traffic classification on switch port, VLAN ID, DSCP, TCP/UDP port	
	IEEE 802.1p priority tag remarking, DSCP remarking, Per port/queue based ingress/egress rate limit in steps of 100kbps	
	IEEE 802.3x flow control, IEEE 802.1Qbb priority based full-duplex flow control	
	Multicast/Broadcast/Unicast storm control with flooding control	
Security	Static port security (MAC based), Per port limited MAC learning	
	Port based/MAC base/single/multiple IEEE 802.1x access control	
	512 ACL rules based on L2~L4 information, RADIUS/TACACS+ AAA	
	HTTPs & SSH v2, IP/MAC binding, IP source guard & ARP inspection	

IP Multicasting	IGMP snooping v1/v2/v3, IGMP proxy, MLD snooping v1/v2, IGMP fast leave
	IGMP query, IGMP filtering/throttling, MVR (Multicast VLAN Registration)
Management	WebGUI/Telnet CLI interface, SNMP v1/v2c/v3, RMON I (1,2,3,9 groups) & RFC1213 MIB II, Private MIB
	DHCP client/snooping/relay option 82
	TFTP/HTTP based firmware and configuration upgrade, Port mirroring, RSPAN
	Event syslog, DNS client/proxy, NTP client, UPnP, IPv4/IPv6 management
	SFF-8472 DDMI, IEEE 802.1ab LLDP
Power Input	100~240VAC ; 36~60VDC
Power Consumption	36.71 Watts Max.
Operating Temperature	0~50 ℃
Storage Temperature	-25~70 ℃
Humidity	5%~95% (non-condensing)
Dimension	440 × 220 × 43.5 mm (W×D×H)
Certification	CE, FCC class A

Application



Ordering Information

Model Name	Description
QSW-4416CM-AC	16 × 1G/2.5G RJ45 + 4 × 1G/10G SFP+ Slots Managed Ethernet Switch with Single AC Power Supply
QSW-4416CM-DC	16 × 1G/2.5G RJ45 + 4 × 1G/10G SFP+ Slots Managed Ethernet Switch with Single DC Power Supply
QSW-4416CM-AA	16 × 1G/2.5G RJ45 + 4 × 1G/10G SFP+ Slots Managed Ethernet Switch with Dual AC Power Supply
QSW-4416CM-DD	16 × 1G/2.5G RJ45 + 4 × 1G/10G SFP+ Slots Managed Ethernet Switch with Dual DC Power Supply
QSW-4416CM-AD	16 × 1G/2.5G RJ45 + 4 × 1G/10G SFP+ Slots Managed Ethernet Switch with AC + DC Power Supply

Optional Accessories

■ 10G SFP+ Transceiver Module

Model Name	Description
SFM-1000-SR85	10G SFP+ SR/SW MMF 300m, 850nm VCSEL, 10G Ethernet/FC/SDH/SONET
SFS-1010-LR31	10G SFP+ LR/LW SMF 10km, 1310nm DFB DML, 10G Ethernet/FC/SDH/SONET
SFS-1040-ER55	10G SFP+ ER/EW SMF 40km, 1550nm DFB EML, 10G Ethernet/FC/SDH/SONET
SFS-1080-ZR55	10G SFP+ ZR/EW SMF 80km, 1550nm DFB EML, 10G Ethernet/FC/SDH/SONET