

QSW-4204M

10G CPE Switch

**1 × GbE RJ45 + 4 × 1G/2.5G RJ45 + 2 × 1G/10G SFP+
L2+ Managed Ethernet Switch with Cable Tray Option**



CTC Union Technologies unveils the next generation CPE switch, QSW-4204M, which supports multigigabit technology for active Ethernet based FTTH application. This new CPE switch is designed with 1 ports 10M/100M/1Gbps RJ45 and 4 ports 10M/100M/1G/2.5Gbps as well as 2 ports 1G/10Gbps SFP+ based fiber optics. As usual, the QSW-4204M adopts the evolutionary cable tray structural design to help the installer more easily and protectively manage the excess fiber within the unit.

Its design concept is well considered from the basis of stylish and elegant appearance for the residential user as well as the advantage of easy installation for the FTTH service provider. Hence, the QSW-4204M makes an Internet connected device no longer like the legacy ones hidden in the corner of household. Oppositely, it can become as an eye-catching furniture to blend into the overall decoration aesthetics at home.

The QSW-4204M leverages the technology strength of chipset provider which is the member of NBASE-T alliance to enable the multigigabit speed feature. The enterprise and residential users will be able to experience the reliable and secure Ethernet based high speed network access and also connect the existing Cat5e/Cat6 cabling infrastructure with WiFi 6/6E device or even beyond, NAS access as well as small cell or powerful workstations to break through the limitation of 1Gbps data rate for content richer applications such as Cloud storage, 4K video streaming or HD/UHD teleconferencing.

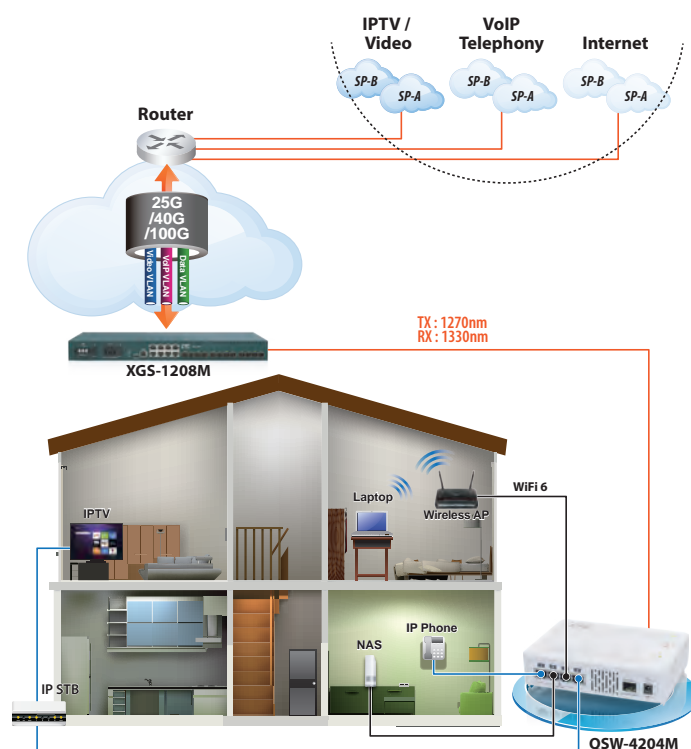
The QSW-4204M fully supports Layer 2 feature sets with complete network management interfaces such as Web GUI, CLI and SNMP. The QSW-4204M also supports DHCP auto provisioning and TR-069 client function which are suitable for the very large-scale deployment from operator or service provider. Both device management features can avoid truck rolls and save OPEX for FTTH service providers.

Specifications

Interface	Fiber port: 2x 1G/10Gbps SFP+ Copper port: 4x 10M/100M/1G/2.5Gbps RJ45 1x 10/100/1000Mbps RJ45 for telemetry	
Switching Fabric Capacity	62Gbps	
Packet Forwarding Rate	14880pps	@10Mbps
	148800pps	@100Mbps
	1488000pps	@1000Mbps
	3720000pps	@2500Mbps
	14880000pps	@10Gbps
Transmission Method	Store and Forward Switching	
Packet Buffer	8M bits	
MAC Table Size	16K	
Jumbo Frame Size	10240 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 802.3ad LACP, 3 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, 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 256 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 TR-069 client for remotely device management and configuration RMON I (1,2,3,9 groups) & RFC1213 MIB II, Dying gasp in SNMP trap message DHCP client/snooping/relay option 82 TFTP/HTTP based firmware and configuration upgrade, Port mirroring, Event syslog server Smart detect functionality for configurable log and trap warning option, DNS client/proxy DHCP auto provisioning (option 55/60/66/67/132/240/254), NTP client, UPnP IPv4/IPv6 management, SFF-8472 DDMI, IEEE 802.1ab LLDP
Power Input	12V/2A AC power adaptor
Power Consumption	14.3 Watts Max.
Operating Temperature	0~50°C
Storage Temperature	-25~70°C
Humidity	5%~90% (non-condensing)
Dimension	162 × 122 × 43.5mm (W×D×H)
Certification	CE, FCC, class A

Application



Ordering Information

Model Name	Description
QSW-4204M	1-port GbE, RJ45 and 4-ports 1G/2.5G, RJ45 to 2 × 1G/10G SFP+ L2+ Managed Ethernet Switch

Optional Accessory

Model Name	Description
GSW-20FT	Fiber Tray set for GSW-20 series CPE