GSW-4448CM

24 × CSFP (48 × GbE) with 4 × GbE Combo +
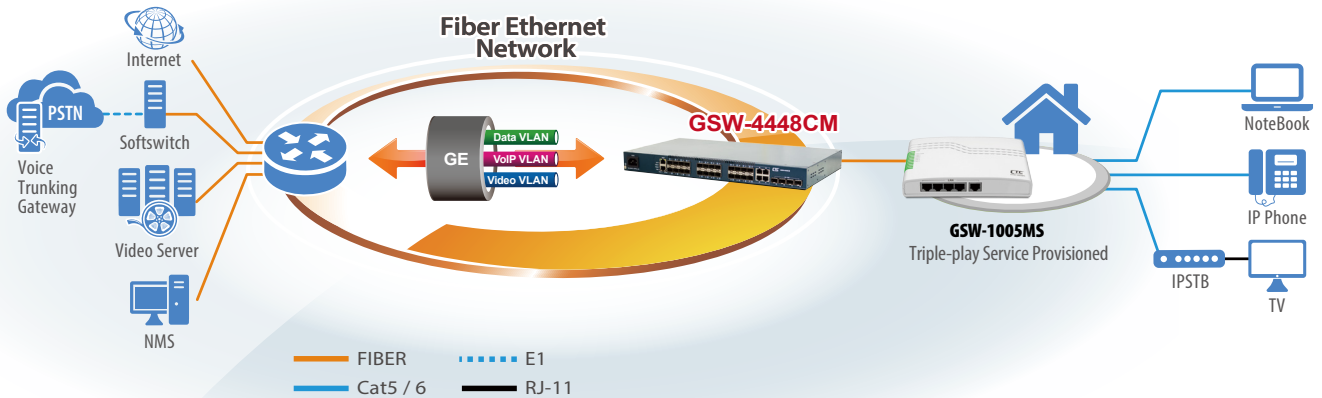4 × 1G/10G SFP+ Managed Ethernet Switch

CTC Union technologies unveils the special BX optics (compact SFP) based Ethernet switch, GSW-4448CM, which is designed for FTTx deployment. The compact SFP can double the fiber port density compared with the general SFP transceiver. It is suitable for the FTTx deployment scenario where increased user links are required in the limited construction space.

The GSW-4448CM is equipped with 48 1000Base-X CSFP ports included 4 Gigabit combo ports (RJ45 or CSFP slot) and 4 1G/10Gbps dual rate SFP+ slots. This switch is targeted at multi-service operators (MSO) with a desire to deploy provisioned multiple play services via active Ethernet FTTx network infrastructures. The GSW-4448CM Ethernet access switch provides VLAN, QoS and IGMP L2 feature sets as well as robust security management to facilitate service provider's build out of a manageable and secure FTTx access network.

▌Specifications

Interface	Access port: 1000Base-X CSFP slot × 22 + GbE combo (CSFP or RJ45) × 4 Uplink port: 1000Base-X/10GBase-X SFP+ slot × 4 Management port: 10/100/1000Base-T RJ45 × 1 Console port: RS-232 in RJ45 × 1
Packet Forwarding Rate	14880pps @10Mbps 148800pps @100Mbps 1488000pps @1000Mbps 14880000pps @10Gbps
Switching Fabric Capacity	176Gbps
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
Link Aggregation	Static trunk (SA, DA, IP, TCP/UDP port); IEEE 802.3ad LACP, 26 LACP trunk groups Max, 8 port Max. per LACP trunk; IEEE 802.1AX
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 b ased full-duplex flow control; Multicast/Broadcast/Unicast storm control with flooding controls
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 reporting; 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; DHCP client/relay/snooping/relay option 82; TFTP/HTTP based firmware and configuration upgrade; Port mirroring; RSPAN; Event syslog server; DNS client/proxy; NTP client; UPnP; IPv4/IPv6 management; SFF-8472 DDMI; IEEE 802.1ab LLDP; Text based CLI configuration download and upload

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www.ctcu.com / sales@ctcu.com   Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

Application

Ordering Information

Model Name	Description
GSW-4448CM-AC	24 × CSFP (48 × GbE) with 4 × GbE combo (RJ45 or CSFP) + 4 × 1G/10G SFP+ slots uplink with single AC power supply
GSW-4448CM-DC	24 × CSFP (48 × GbE) with 4 × GbE combo (RJ45 or CSFP) + 4 × 1G/10G SFP+ slots uplink with single DC power supply (-48V)

Optional Accessory

▪ **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