L2+ CSFP Ethernet Switch

2 GSW-4448CM

CTC union

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

CTC Union technologies unveils the special BX optics (cSFP) 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.
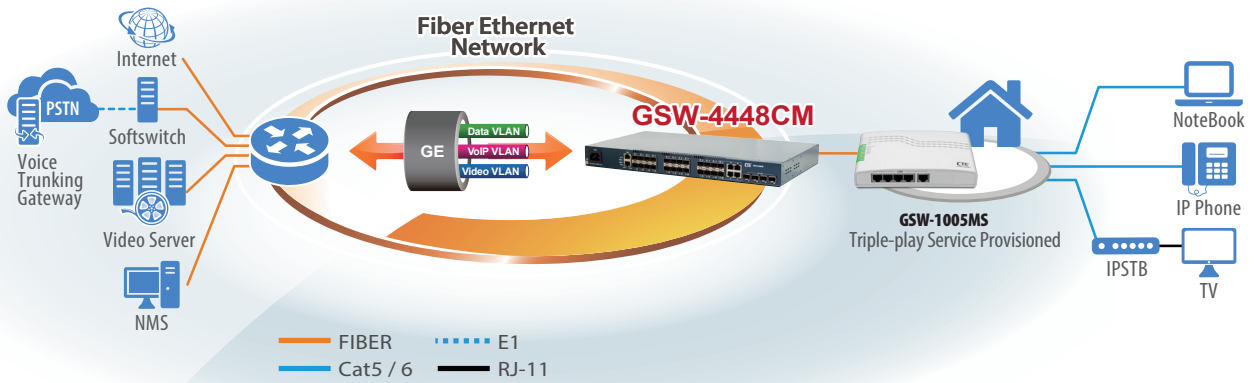
Specifications

Interface	Access port: 22x 1000Base-X CSFP slots + 4x GbE combo (CSFP or RJ45)
	Uplink port: 4x 1000Base-X/10GBase-X SFP+ slots
	Management port: 1x 10/100/1000Base-T RJ45
	Console port: 1x RS-232 in RJ45
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 802.1AX
	IEEE 802.3ad LACP, 26 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 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, MLD snooping v1/v2, IGMP fast leave
	IGMP query, IGMP filtering/throttling, MVR (Multicast VLAN Registration)

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Management	WebGUI/Telnet CLI interface, SNMP v1/v2c/v3, RMON I (1,2,3,9 groups) & RFC1213 MIB II
	DHCP client/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
Power Input	AC 100~240V, 50/60Hz or 36~60VDC
Power Consumption	56.5 Watts Max.
Operating Temperature	0~50 ℃
Storage Temperature	-25~70 ℃
Humidity	10 - 90% non-condensing
Dimension	440 × 220 × 43.5 mm (W×D×H)
Certification	RoHS, CE, FCC class A

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

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