

GSW-4448CM

L2+ CSFP Ethernet Switch

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.

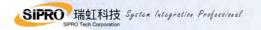
The GSW-4448CM is equipped with 48 1000Base-X CSFP ports included 4 Gigabit combo ports (RJ45 or CSFP slot) and 4 1G/10Gbps dual rate SFP+ slots. This switch is targeted at multi-service operators (MS0) with a desire to deploy provisioned multiple play services via active Ethernet FTTx network infrastructures. 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-23	2 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 VLA	AN (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	
		LACP trunk groups Max; 8 port Max. per LACP trunk group	
	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		
		I, 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		3, IGMP proxy, MLD snooping v1/v2, IGMP fast leave	
	IGMP query, IGMP filteri	ng/throttling, MVR (Multicast VLAN Registration)	

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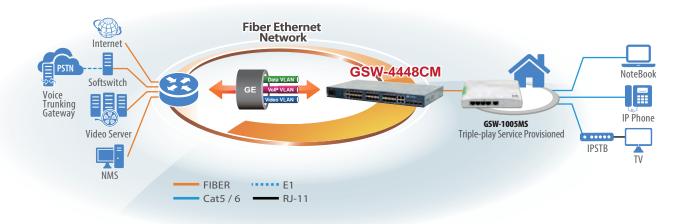
TEL: (02)2999-0857 FAX: (02)2999-0852 EMAIL : siprotech_sales@siprotech.com.tw ADD : 新北市三重區光復路一段83巷1號3樓





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°C		
Storage Temperature	-25~70°C		
Humidity	10 - 90% non-condensing		
Dimension	440 × 220 × 43.5 mm (W×D×H)		
Certification	1 RoHS, CE, FCC class A		

Application



Ordering Information

Model Name	Description
GSW-4448CM-AC	$24 \times$ CSFP (48 \times GbE) with 4 \times GbE Combo (RJ45 or CSFP) + 4 \times 1G/10G SFP+ Slots Uplink with Single AC Power Supply
GSW-4448CM-DC	$24 \times$ CSFP (48 \times GbE) with 4 \times GbE Combo (RJ45 or CSFP) + 4 \times 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

瑞虹科技股份有限公司 TEL: (02)2999-0857 EMAIL: siproteck www.siprotech.com.tw FAX: (02)2999-0852 ADD: 新北市三量

EMAIL: siprotech_sales@siprotech.com.tw ADD: 新北市三重區光復路一段83巷1號3樓