Preliminary

GSW-4800CFM

48x GbE CSFP or 24x GbE SFP+ 4x GbE combo + 4x 1G/10G SFP+ L2+ Managed Ethernet Switch

GSW-4800CFM is an SNMP manageable Gigabit Ethernet switch for FTTx deployment or Gigabit Ethernet fiber aggregation that is equipped with 48 1000Base-X CSFP ports, 4 Gigabit combo ports (RJ45 or CSFP slot) and 4 1G/10Gbps dual rate SFP+ slots. The GSW-4800CFM supports a special BX optics (Compact SFP) which can double the fiber port density to 48 links, make it be attractive for the FTTx deployment and scenarios where increased user links are required in limited construction space. With advanced layer 2 and QoS features, this switch is targeted at multi-service operators (MSO) with a desire to deploy provisioned triple play services via active Ethernet FTTx network infrastructures. Fiber based network infrastructures offer the data rates required by triple play services such as high speed internet access, VoIP and HD IPTV. The GSW-4800CFM 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.

Features

- IPv6 management
- 8 priority queues are supported on each port for QoS application
- Port-based VLAN, 802.1Q VLAN, Voice VLAN and Q-in-Q(double tagging) function
- Protected Port and Loop Detection function
- IEEE 802.1x security function, and VLAN assignment, Guest VLAN functions
- Static Mac address access limit and Dynamic Mac address number on port
- IEEE802.1D & 802.1w & 802.1s
- DHCP Client / DHCP Option 82 Relay / DHCP Snooping function
- DHCP Snooping Database agent to upload DHCP Snooping table to external TFTP Server

- ACL function for L2 ~ L4 packet control, Ingress/Egress rate control on port
- IP Multicast with IGMP snooping / query / fast leave / filtering / group limited /MVR
- Broadcast/Multicast/Unknown Unicast storm control
- ARP inspection / IP source guard
- RMON 1,2,3,9
- SFP Transceiver DDMI function
- Remote port configuration setting and statistics monitoring
- Text based CLI configuration download and upload
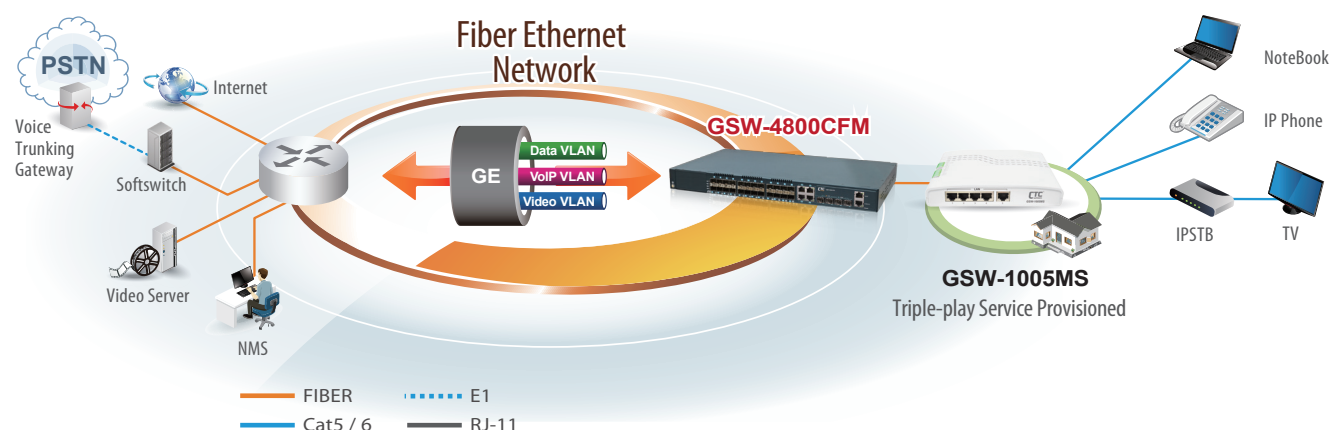- IEEE 802.3az power management / Green Ethernet

Specifications

System	
1G CSFP or 100M/1G SFP Slot	24
1G Combo 10/100/1000Base-T Port	4
1G/10G Uplink Port	4
Memory	Flash : 16MB / RAM: 128MB
Packet buffer	32M bits
MAC Table size	32K
Max Packet Size	10K
Filter & Forward rate	14880pps at 10Mbps 148800pps at 100Mbps 1488000pps at 1Gbps 14880000pps at 10Gbps
Switching Fabric Capacity	178Gbps
Packet Forwarding Capacity	132Mpps
FAN Design	Yes
Console port	RJ-45
19" Rack-Mount	Yes, with kits
SFP DDMI	Yes
Dimension	315 x 440 x 43.5mm (DxWxH)
Operatin Temperature	0 ~ 50℃
Storage Temperature	-25 ~ 70℃
Humidity	10% ~ 90% (non-condensing)
Power Consumption	<100W Max.
Power Input	AC Power input (100V~240V); -36~-60VDC

Software	
Port Control	Port speed, duplex mode, and flow control Port Auto MDI/MDI-X Port maximum frame size (10240 bytes) Port state (administrative status) Port status (link monitoring) Port statistics (MIB counters) Port VeriPHY (cable diagnostics)
L2 Switching	Auto MAC address learning/aging and MAC addresses (static) IEEE 802.1Q static VLAN(4096 entries Max.), Voice VLAN, Port isolation, Private VLAN, MAC based VLAN protocal based VLAN, IP subnet based VLAN IEEE 802.1D STP/802.1w RSTP/802.1s MSTP IEEE 802.3ad Link Aggregation, static and LACP BPDU guard and restricted role, Error Disable Recovery DHCP client, DHCP snooping, DHCP option 82 relay ARP inspection(256 entries Max.) Port mirroring
Layer 2 Multicast	IGMP snooping v1,v2, v3 snooping, (1024 groups) IGMP snooping Fast and Immediate leave IGMP throttling, filtering, and leave proxy MVR and MVR profile IPv6 MLD v1 snooping
QoS	8 Priority Queues per Port Port Based priority Scheduler priority QoS Control List(256 entries Max.) Storm control for UC, MC, and BC Policing and shaping per port and per queue Ingress Policing Egress Shaping DiffServ (RFC 2474) remarking Tag remarking

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Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

L2+ Managed Ethernet Switch (CSFP)

Security	Port-based 802.1X, Single 802.1X, Multiple 802.1X MAC-based authentication, VLAN assignment, QoS assignment, Guest VLAN RADIUS accounting MAC address limit TACACS+ Web and CLI authentication and authorization Authorization ACLs for filtering, policing, and port copy IP source guard
Synchronization	NTPv4 Client
SFP DDMI	Yes

Management	HTTP server CLI console port Telnet Management access filtering SSHv2 and HTTPS IPv6 Management Syslog Software upload through Web and TFTP SNMPv1/v2c/v3 Agent RMON Group 1, 2, 3, and 9 IEEE 802.1AB-2005 Link Layer Discovery, LLDP Text Configuration download or upload Daylight Saving

Application

Fiber Ethernet Network

GSW-4800CFM

GSW-1005MS
Triple-play Service Provisioned

— FIBER
— Cat5 / 6
····· E1
— RJ-11

Ordering Information

Model Name	Description
GSW-4800CFM-AC	40x GbE, CSFP + 4x GbE combo (RJ45 or CSFP) + 4x 1G/10G, SFP+ slots uplink with single AC power supply
GSW-4800CFM-DC	40x GbE, CSFP + 4x GbE combo (RJ45 or CSFP) + 4x 1G/10G, SFP+ slots uplink with single DC power supply (-48V)
GSW-4800CFM-AA	40x GbE, CSFP + 4x GbE combo (RJ45 or CSFP) + 4x 1G/10G, SFP+ slots uplink Dual AC power supply
GSW-4800CFM-DD	40x GbE, CSFP + 4x GbE combo (RJ45 or CSFP) + 4x 1G/10G, SFP+ slots uplink Dual DC power supply (-48V)
GSW-4800CFM-AD	40x GbE, CSFP + 4x GbE combo (RJ45 or CSFP) + 4x 1G/10G, SFP+ slots uplink AC & DC (-48V) power supply

Accessories

10G SFP+ Transceiver Module

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

Power Type

GSW – 4800CFM – ☐☐

Example: GSW – 4800CFM – AD