Preliminary

GSW-3424FM

24x 100/1000Base-X SFP slots + 4x GbE combo ports (10/100/1000Base-T or 1000Base-X) L2 Managed Ethernet Switch

GSW-3424FM is an SNMP manageable Gigabit Ethernet switch for FTTx deployment or Gigabit Ethernet fiber aggregation that equipped 24 dual rate 100/1000Base-X SFP ports and 4 Gigabit Ethernet combo (10/100/1000Base-T or 1000Base-X) ports. 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-3424FM Ethernet access switch provides VLAN, QoS and IGMP L2 feature sets as well as robust security management to facilitate service provider's build up of a manageable and secure FTTx access network.

Features

- 24x SFP ports, support 100Base-FX or 1000Base-X
- 4x RJ45/SFP(100/1G) ports, auto-detect RJ45/SFP connection
- 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 LoopBack 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/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 configuration download and upload
- IEEE 802.3az power management / Green Ethernet

Specifications

System	
100/1G SFP Port	24
UTP/SFP Combo Uplink Port	4
Memory	Flash : SPI 16MB / RAM:DDRII 128MB
Packet buffer	16M bits
MAC Table size	16K
Max Packet Size	10K
Switching capability	14880pps at 10Mbps, 148810pps at 100Mbps, 1488095pps at 1Gbps with 64bytes packets
Switch capacity	48Gbps
Forwarding Rate	35.7Mpps
FAN Design	Yes
Console port	RJ-45
19" Rack-Mount	Yes, with kits
SFP DDMI	Yes
Dimension	250x 440x 43.5mm (DxWxH)
Environmental Temperature	Operating : 0 ~ 50°C Storage : -25 ~ 70°C
Humidity	10% ~ 90% (non-condensing)
LED Display	Per Port : Link/Act (Green: Gigabit, Yellow:10/100M) Per Device : Power and System
Power Consumption	<60W Max.
Power Input	AC Power input (100V~240V); -36~60VDC

LED		
Power	Lights(Green)	System is receiving power
System	Lights(Green)	System is ready
Link / Act	Lights	Link is ready
		1000Mbps : Green
		100Mbps : Amber
	Flashing	Data packets being received or sent

Software	
Port Control	Port speed, duplex mode, and flow control Port Auto MDI/MDI-X Port frame size (jumbo frames), Maximum ingress frame size (10056 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, static, 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

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

GSW-3424FM

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CTC union

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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 System 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 sFlow Daylight Saving

Application
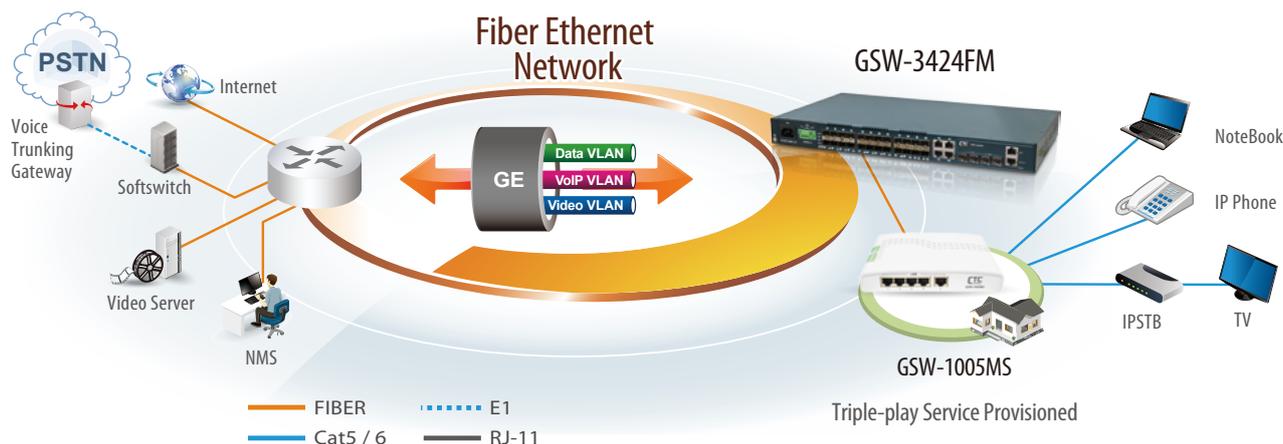
Ordering Information

Model Name	Description
GSW-3424FM-AC	24x 100/1000Base-X SFP slots + 4x GbE combo (1000Base-X or 10/100/1000Base-T) uplink with single AC power supply
GSW-3424FM-DC	24x 100/1000Base-X SFP slots + 4x GbE combo (1000Base-X or 10/100/1000Base-T) uplink with single DC power supply (-48V)
GSW-3424FM-AA	24x 100/1000Base-X SFP slots + 4x GbE combo (1000Base-X or 10/100/1000Base-T) uplink Dual AC power supply
GSW-3424FM-DD	24x 100/1000Base-X SFP slots + 4x GbE combo (1000Base-X or 10/100/1000Base-T) uplink Dual DC power supply (-48V)
GSW-3424FM-AD	24x 100/1000Base-X SFP slots + 4x GbE combo (1000Base-X or 10/100/1000Base-T) uplink AC & DC (-48V) power supply

Remark: SFP Transceiver not included

Power Type

MSW – 3424FM – ☐☐

Example: MSW – 3424FM – AD