

# GSW-3424FM

## L2+ Managed Ethernet Switch

**24 × GbE/SFP + 4 × GbE/RJ45 with 4 × 1G/10G SFP+  
L2+ Managed Ethernet Switch**



CTC Union Technologies unveils an SNMP manageable Gigabit Ethernet switch for FTTx deployment, GSW-3424FM, which 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.

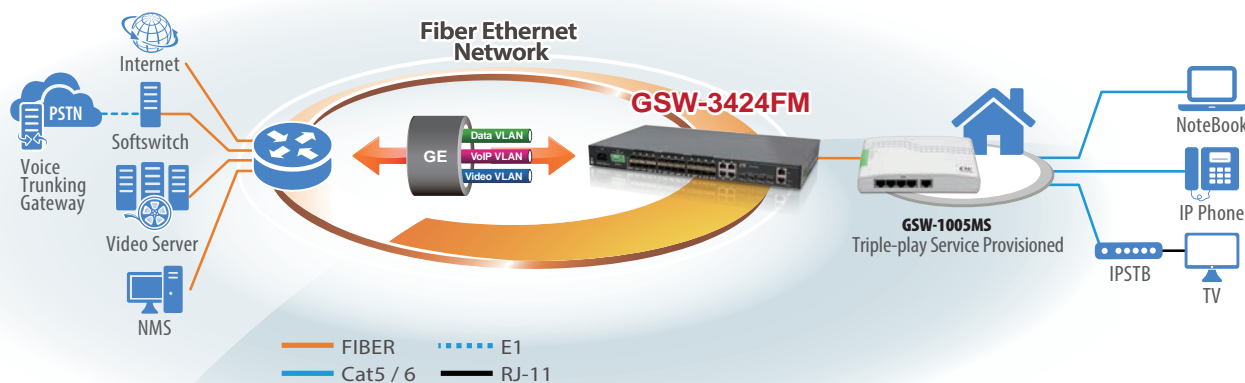
It is equipped with 24 dual rate 100/1000Base-X SFP ports, 4 10/100/1000Base-T RJ45 ports and 4 1G/10Gbps dual rate SFP+ slots. The GSW-3424FM Ethernet access switch provides VLAN, QoS and IGMP L2 feature sets as well as robust security management to facilitate service provider's build out of a manageable and secure FTTx access network.

### Specifications

<b>Interface</b>	Access fiber port: 24x 100Base-FX/1000Base-X SFP slot Access copper port: 4x 10/100/1000Base-T RJ45 Uplink port: 4x 1000Base-X/10GBase-X SFP+ slot Management port: 1x 10/100/1000Base-T RJ45 Console port: 1x RS-232 in RJ45	
<b>Switching Fabric Capacity</b>	136Gbps	
<b>Packet Forwarding Rate</b>	14880pps	@10Mbps
	148800pps	@100Mbps
	1488000pps	@1000Mbps
	14880000pps	@10Gbps
<b>Packet Forwarding Capacity</b>	102Mpps	
<b>Transmission Method</b>	Store and Forward Switching	
<b>Packet Buffer</b>	32M bits	
<b>MAC Table Size</b>	32K	
<b>Jumbo Frame Size</b>	10K Bytes	
<b>VLAN Feature</b>	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, GVRP (GARP VLAN registration protocol)	
<b>Link Aggregation</b>	Static trunk (SA, DA, IP, TCP/UDP port)	
	IEEE 802.3ad LACP, 16 LACP trunk groups Max; 8 port Max. per LACP trunk group	
<b>L2 Switching Protection</b>	IEEE 802.1D STP/IEEE 802.1w RSTP/IEEE 802.1s MSTP, Loop Protection	
<b>QoS Feature</b>	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	
	Multicast/Broadcast/Unicast storm control with flooding control	
<b>Security</b>	Static port security (MAC based), Per port limited MAC learning	
	Port based / MAC base / single / multiple IEEE 802.1x access control	
	256 ACL rules based on L2~L4 information, RADIUS/TACACS+ AAA, HTTPs & SSH v2	
	IP/MAC binding, IP source guard & ARP inspection	
<b>IP Multicasting</b>	IGMP snooping v1/v2/v3, IGMP proxy, MLD snooping v1/v2, IGMP fast leave	
	IGMP query, IGMP filtering/throttling, MVR (Multicast VLAN Registration)	

<b>Management</b>	WebGUI/Telnet CLI interface, SNMP v1/v2c/v3, RMON I (1,2,3,9 groups), RFC1213 MIB II, Private MIB DHCP client/snooping/relay option 82, TFTP/HTTP based firmware and configuration upgrade, Port mirroring RSPAN, Event syslog server, DNS client/proxy, NTPv4 client, UPnP IPv4/IPv6 management, SFF-8472 DDMI, IEEE 802.1ab LLDP Text based CLI configuration download and upload
<b>Power Input</b>	100~240VAC ; 36~60VDC
<b>Power Consumption</b>	38.6 Watts Max.
<b>Operating Temperature</b>	0~50°C
<b>Storage Temperature</b>	-25~70°C
<b>Humidity</b>	5%~95% (non-condensing)
<b>Dimension</b>	440 × 250 × 43.5 mm (W×D×H)
<b>Certification</b>	CE, FCC class A

## Application



## Ordering Information

Model Name	Description
GSW-3424FM-AC	24 × GbE SFP Slots + 4 × GbE RJ45 + 4 × 1G/10Gbps SFP+ Slots Uplink with Single AC Power Supply
GSW-3424FM-DC	24 × GbE SFP Slots + 4 × GbE RJ45 + 4 × 1G/10Gbps SFP+ Slots Uplink with Single DC Power Supply (-48V)
GSW-3424FM-AA	24 × GbE SFP Slots + 4 × GbE RJ45 + 4 × 1G/10Gbps SFP+ Slots Uplink with Dual AC Power Supply
GSW-3424FM-DD	24 × GbE SFP Slots + 4 × GbE RJ45 + 4 × 1G/10Gbps SFP+ Slots Uplink with Dual DC Power Supply (-48V)
GSW-3424FM-AD	24 × GbE SFP Slots + 4 × GbE RJ45 + 4 × 1G/10Gbps SFP+ Slots Uplink with AC + DC (-48V) Power Supply

## 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