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# GSW-3424FM

CTC Union

## 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.
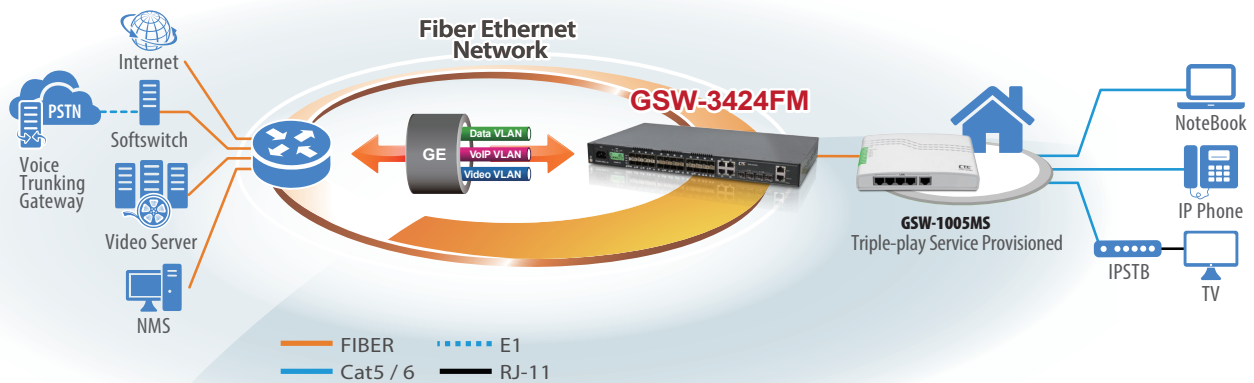
## Specifications

| | | |
|---|---|---|
| Interface | 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 | |
| Switching Fabric Capacity | 136Gbps | |
| Packet Forwarding Rate | 14880pps | @10Mbps |
| | 148800pps | @100Mbps |
| | 1488000pps | @1000Mbps |
| | 14880000pps | @10Gbps |
| Packet Forwarding Capacity | 102Mpps | |
| 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, GVRP (GARP VLAN registration protocol) | |
| Link Aggregation | Static trunk (SA, DA, IP, TCP/UDP port) | |
| | IEEE 802.3ad LACP, 16 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 | |
| | Multicast/Broadcast/Unicast storm control with flooding control | |
| Security | 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 | |
| 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) | |

*www.ctcu.com / sales@ctcu.com / Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.*

# L2+ Managed Ethernet Switch

| | |
|---|---|
| Management | 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 |
| Power Input | 100~240VAC ; 36~60VDC |
| Power Consumption | 38.6 Watts Max. |
| Operating Temperature | 0~50℃ |
| Storage Temperature | -25~70℃ |
| Humidity | 5%~95% (non-condensing) |
| Dimension | 440 × 250 × 43.5 mm (W×D×H) |
| Certification | 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 |