



## GSW-3424M1

20x GbE, RJ45 + 4x GbE Combo (SFP or RJ45)  
L2+ Managed Switch

GSW-3424M1 is a cost-effect, high performance, managed L2 Ethernet with 20x 10/100/1000Base-T ports and 4x Gigabit Ethernet combo (10/100/1000Base-T or 1000Base-X) ports. This switch supports remote management by SNMP, HTTP(HTTPS) and Telnet(SSH) interfaces along with local management by console interface. GSW-3424M1 supports many L2 switch management functions, including 802.1Q VLAN, 802.1x Port Security, Rate Control, Port Configuration, Port Mirroring, Port Statistics, QoS functions, Spanning tree and more.

### Feature

- 20x RJ45 ports, with 10/100/1000Mbps, Full/Half duplex auto-negotiation and Auto-MDIX functions
- 4x Dual Speed SFP sockets, shared with TX ports of Port 21~24 ;
- auto-detect TX/SFP connection
- CISCO-like command line interface, 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 (spanning tree)
- IP Multicast with IGMP snooping / query / fast leave / filtering / group limited /MVR
- DHCP Client / DHCP Option 82 Relay / DHCP Snooping function
- ACL function for L2 ~ L4 packet control, Ingress/Egress rate control on port
- Broadcast/Multicast/Unknown Unicast storm control
- ARP inspection / IP source guard, RMON 1, 2, 3, 9
- SFP Transceiver DDMI function / Dual Speed SFP Ports (100/1000Mbps)
- Remote port configuration setting and statistics monitoring
- Text based CLI configuration download and upload
- IEEE 802.3az power management / FANless / Green Ethernet

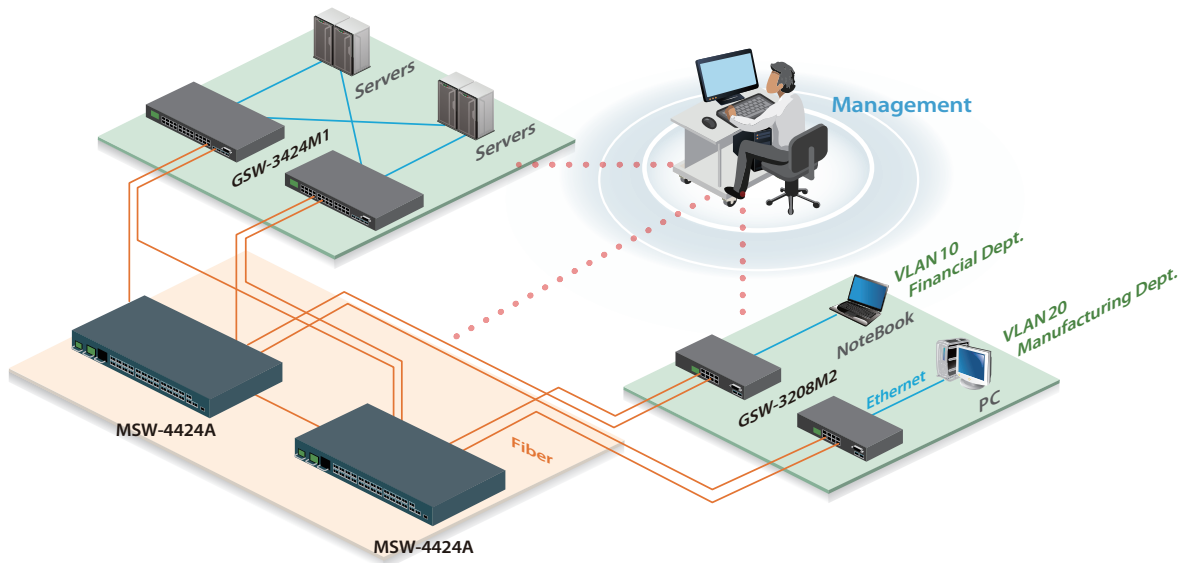
### Specifications

<b>System</b>	
<b>10/100/1000 Base-T</b>	20
<b>100/1G SFP Slot</b>	4 UTP/SFP Combo ( Port 21~24 )
<b>Packet buffer</b>	512KB
<b>MAC Table size</b>	8K
<b>Max Packet size</b>	9600 Bytes
<b>Filter &amp; Forward rate</b>	14880pps at 10Mbps, 148800pps at 100Mbps, 1488000pps at 1Gbps
<b>Switching Fabric capacity</b>	48Gbps
<b>Packet Forwarding capacity</b>	35.7Mpps
<b>FAN Design</b>	FAN less
<b>Console port</b>	D-Sub 9
<b>19" Rack-Mount</b>	Yes, with kits
<b>SFP DDMI</b>	Yes
<b>Dimensions</b>	330 x 204 x 44 mm (W x D x H)
<b>Operating Temperature</b>	0 ~ 50°C
<b>Storage Temperature</b>	-25 ~ 70°C
<b>Humidity</b>	10% ~ 90% (non-condensing)
<b>LED Display</b>	Per Port : Link/Act (Green: Gigabit, Yellow:10/100M) Per Device : Power and System
<b>Power Consumption</b>	18 Watt Max.
<b>Power Input</b>	AC Power input (100V~240V)
<b>Software</b>	
<b>Port Control</b>	Port speed, duplex mode, and flow control Port frame size (jumbo frames), Maximum ingress frame size (9600 bytes) Port state (administrative status) Port status (link monitoring) Port statistics (MIB counters) Port VeriPHY (cable diagnostics), Power Control
<b>L2 Switching</b>	Auto MAC address learning/aging and MAC addresses (static) IEEE 802.1Q static VLAN(Max. 4K VLAN groups), Voice VLAN, Port isolation, Port Based VLAN, IEEE 802.1ad Provider Bridge IEEE 802.1D STP/802.1w RSTP/802.1s MSTP IEEE 802.3ad Link Aggregation, static and LACP BPDU guard and restricted role, BPDU transparency DHCP client, DHCP snooping, DHCP option 82 relay ARP inspection, Port mirroring, IP MAC binding
<b>Layer 2 Multicast</b>	IGMP snooping v1,v2, v3 snooping, (1024 groups) IGMP snooping Fast and Immediate leave IGMP throttling, filtering, and leave proxy IGMP proxy mode and snooping mode selection MVR, IPv6 MLD snooping
<b>QoS</b>	8 Priority Queues per Port Port Based priority, Scheduler priority, QoS Control List Storm control for UC, MC, and BC Policing and shaping per port and per queue Ingress Policing : (100-1000000 when the "Unit" is "kbps" or "fps" and 1-3300 when the "Unit" is "Mbps" or "kfps") Egress Shaping : (100-1000000 when the "Unit" is "kbps", and 1-3300 when the "Unit" is "Mbps") DiffServ (RF 2474) remarking, Tag remarking
<b>Security</b>	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 ( 3 levels) ACLs for filtering(256 entries), policing, and port copy IP source guard
<b>Synchronization</b>	NTPv4 Client
<b>Power Saving</b>	ActiPHY, PerfectReach, Ethernet Energy Efficient power management(EEE)
<b>SFP DDMI</b>	Yes

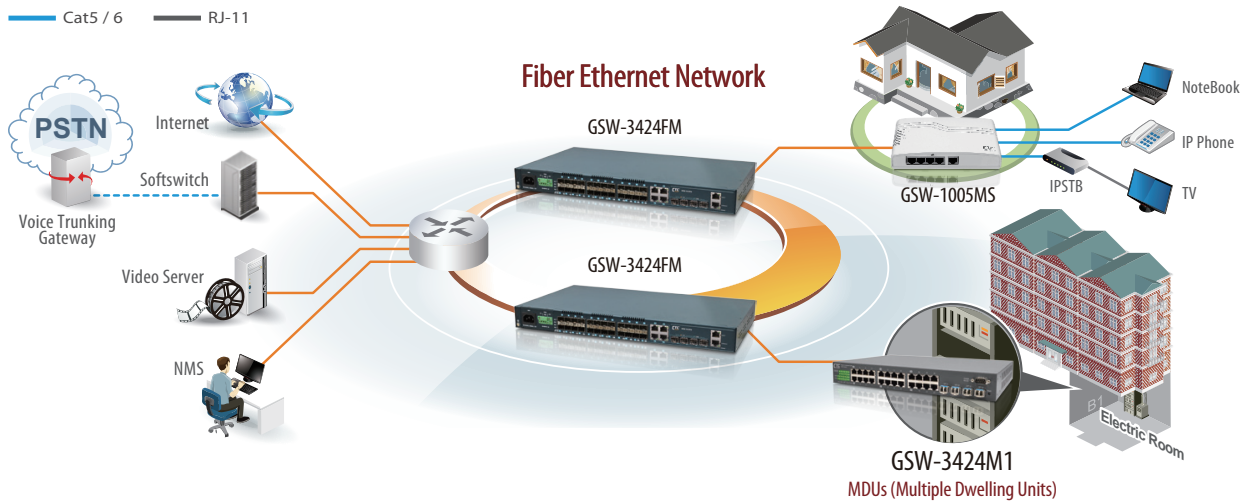
**Management**  
 HTTP server, CLI console port, Telnet,  
 Management access filtering, SSHv2 and HTTPS  
 IPv6 Management, System Syslog  
 Software download through Web

**Management**  
 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



— FIBER      - - - - E1  
 — Cat5 / 6      — RJ-11



## Ordering Information

Model Name	Description
GSW-3424M1-AC	20x 10/100/1000Base-T + 4x GbE Combo with AC power supply
GSW-3424M1-DC48	20x 10/100/1000Base-T + 4x GbE Combo with DC 48V power supply

Power Type  
**MSW – 3424M1** –   
 Example: MSW – 3424M1 – DC48