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GSW-4424MP

CTC Union

24 × GbE/RJ45 + 4 × 1G/10G SFP+ with 24 × PoE+ (450W) L2+ Managed Ethernet Switch

The high-density version of managed power over Ethernet switch in best cost performance ratio, GSW-4424MP, is designed for SMB and enterprise network application. Each Ethernet copper port complies with IEEE 802.3at standard to supply 30W power injection maximum. The 10G uplink ports relieve the insufficiency of Gigabit links to offer instantly demanding bandwidth consumption for PoE powered FHD/UHD IPcam surveillance, WiFi network access and VoIP telephony deployed in the enterprise network.

The GSW-4424MP is equipped with 24 × Gigabit RJ45 ports and 4 × 1G/10G SFP+ based fiber optics ports. It is featured completely L2+ switch functionality which guarantees high network availability, secured robust network access and comprehensive QoS in the network edge. Also, the GSW-4424MP can be managed by CTC in-house developed Smartview EMS, which offers a user-friendly and centralized device management platform. It makes the administrators be able to monitor and configure the switches remotely.

Features

- 24 × RJ45/PoE+ ports with 450W power budget totally
- Cable diagnostics to test UTP cable or determine broken point distance
- Text based CLI configuration download and upload

- Advanced PoE management
  - PoE PD failure auto check and reset if PD failed
  - PoE port on/off scheduling
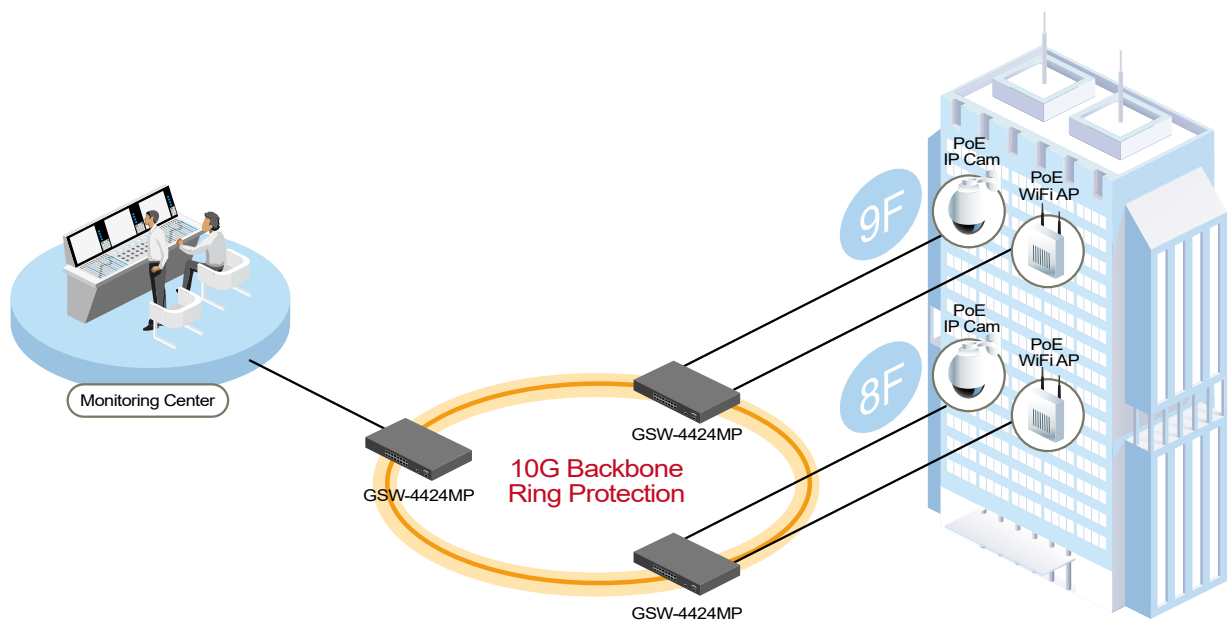 - PoE configuration for power planning

Specifications

Interface	Fiber port: 4x 1G/10Gbps SFP+ uplink
	Copper port: 24x 10/100/1000Base-T RJ45
	Management port: 1x 10/100/1000Base-T RJ45
	Console port: 1x RS-232 in RJ45
PoE Power Budget	450W
Switching Fabric Capacity	128Gbps
Packing Forwarding Rate	14880pps @10Mbps
	148800pps @100Mbps
	1488000pps @1000Mbps
	14880000pps @10Gbps
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
	14 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 policing with flooding control

L2+ Managed PoE Switch

Security	Static port security (MAC based), Per port limited MAC learning
	Port based/MAC base/single/multiple IEEE 802.1x access control, 512 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)
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
Advanced PoE Management	PoE PD failure auto check and reset if PD failed, PoE port on/off failure, PoE port enable/disable
	Power limit by PD classification, Totally PoE power budget limitation (450W maximum), Power feeding priority
Power Input	AC power input (100~240V)
Power Consumption	490 Watts @ PoE full load
Operating Temperature	0~50℃
Storage Temperature	-25~70℃
Humidity	5%~95% (non-condensing)
Dimension	440 × 280 × 43.5 mm (W×D×H)
Certification	CE, FCC class A

Application

Ordering Information

Model Name	Description
GSW-4424MP	24 × GbE/RJ45, PoE++ + 4 × 1G/10G SFP+ L2+ Managed PoE Switch

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