Long Range 24-Port Gigabit Web Smart Switch with 4 SFP Slots

GS-5424G

FEATURES
- 24 Gigabit Ethernet ports and 4 SFP fiber slots
- Dual Firmware to reduce down time for the switch
- Voice VLAN to enhance sound quality for IP phones
- DHCP Snooping to protect the integrity of legitimate DHCP server and its operations
- Long Range Mode with Ethernet cable to extend up to 200 meters
- Supports SNMP v3, Access Control List (ACL), QoS, CoS, STP, 802.1Q VLAN, IPv4/IPv6, Port Trunk, IGMP v1/v2/v3 Snooping and Mirror
- 56Gbps switch capacity
- 8K MAC address table and jumbo frame support up to 9KB
- Fanless and 19-inch 1U rack-mount designed

OVERVIEW
The Edimax Pro GS-5424G smart switch comes with web-based user interface, 24 Gigabit ports and 4 SFP slots for optical connections, where multi mode or single mode SFP modules/transceivers are utilized for high speed Gigabit and long range data transmission.

With smart features in SNMP v3, Dual Firmware, Voice VLAN, DHCP Snooping, QoS, CoS, STP, 802.1Q VLAN, IPv4/IPv6, Port Trunk, IGMP v1/v2/v3 Snooping and Mirror, it provides a cost effective, scalable and secure switch solution for SMB networks. The Edimax specific long-range mode enables data transmission to up to 200 meters at a speed of 10Mbps to the furthest away network devices. The Edimax GS-5424G is the ideal solution to increase the distance/speed of your network server and backbone connections.

Gigabit High-Speed Connection
Complies with IEEE802.3/802.3u/802.3ab/802.3z Gigabit Ethernet Standards, the GS-5424G features 24 Gigabit Ethernet ports for high-speed, large file transfer and 4 SFP slots for long range optical fiber Gigabit Ethernet connections.

Dual Firmware
The dual firmware feature allows switches to have two firmware in storage. You can denote one of these firmware as the active one and the other firmware as the backup. If the active firmware faces problems, you can activate the backup firmware right away to reduce down time.

Voice VLAN
Voice VLAN is a special function of GS-5424G switch which allows network administrator to easily prioritize IP voice traffic from IP phone through the access port of switch to enhance VoIP service. Voice VLAN also provides QoS to VoIP, ensuring that the sound quality of an IP phone does not deteriorate when the IP voice traffic is sent unevenly.

DHCP Snooping
The network security feature of DHCP snooping enables the prevention of malicious or malformed DHCP traffic or the mitigation of security risks from rogue DHCP servers. The feature monitors DHCP messages received from untrusted devices connected to the switching device and protects the integrity of legitimate DHCP server and its operations.

Long Range Data Distance Extension, up to 200 Meters
The long range mode provides extended data delivery distance to up to 200 meters while general Ethernet cable has a distance restriction of 100 meters. The long range mode operates on a per-port basis at 10Mbps full-duplex operation, ideal for devices such as IP cameras, IP phones and network-enabled IoT devices at a remote location.

Smart Tools for Improved Network Efficiency and Security
The switch features smart and simple network monitoring tools that allow for improved network efficiency and security. The web-based interface management features include QoS (Quality of Service) bandwidth control for better traffic control, VLAN (Virtual LAN) for enhanced network security and multicast IGMP snooping v1/v2/v3 for streaming applications. For quick and easy setup, the web-based management integrates advanced management and security functions of Access Control List (ACL), CoS, STP, IPv4/IPv6, Port Trunk, IGMP v1/v2/v3 Snooping and Mirror.

SPECIFICATIONS

HARDWARE

Ports	• 24 x RJ45 10/100/1000Base-T Gigabit Ports • 4 x 1000Base-X SFP Slots
Buttons	Reset Button
LED Indicators	Per Port: Link/Act, Per Unit: Power
Power Input	100-240V AC, 50-60 Hz, Internal Power Supply
Fan	Fanless Design
Dimensions (L x W x H)	441x 197x 45 mm
Weight	2.52kg

PERFORMANCE

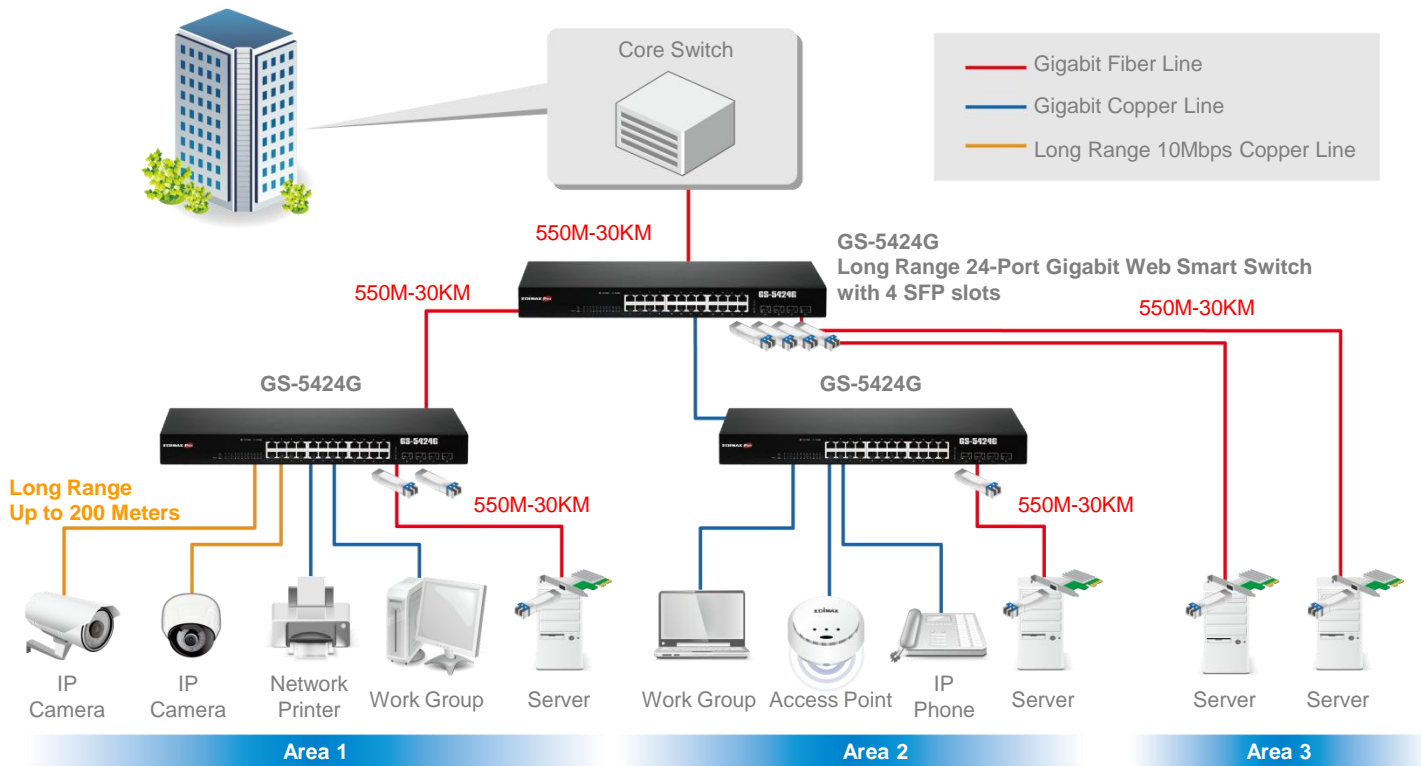|	
Switching Capacity	56Gbps
MAC Address	8K
Jumbo Frame	9K Bytes
Buffer Memory	4.1Mb
Transmission Method	Store and Forward
Filtering/ Forwarding Rates	Max. 41.7Mpps 1000Mbps port - 1,488,000pps 100Mbps port - 148,800pps 10Mbps port - 14,880pps

OTHERS

Standards	• IEEE 802.3 10BaseT Ethernet • IEEE 802.3u 100BaseTX Fast Ethernet • IEEE 802.3ab 1000BaseT Gigabit Ethernet • IEEE 802.3z 1000BaseSX/LX • IEEE 802.3x Full-duplex and Flow Control • IEEE 802.1p Quality of Service (QoS) • IEEE 802.1x Port-based Network Access Control (PNAC) • IEEE 802.1Q Virtual LANs • IEEE 802.1d Spanning Tree Protocol (STP) • IEEE 802.1w Rapid Spanning Tree • Protocol (RSTP) • IEEE 802.3ad Link Aggregation Control Protocol (LACP) • IEEE 802.3az Energy Efficient Ethernet
Environmental Condition	Temperature: • Operating: 0~50°C (32~122°F) • Storage: -40~70°C (-40~158°F) Humidity: • Operating : 10~90% (Non-condensing) • Storage: 10~90% (Non-condensing)
Certifications	CE, FCC, BSMI

SMART FEATURES

Long Range Mode	• Enable long range mode at 10Mbps for cable distance up to 200 meters
Quality of Service (QoS)	• Rate limiting on packets sent and received by an interface • Eight queues on each port • WRR, SP, WRR+SP queue scheduling algorithms • Re-marking of the 802.1p priority and DSCP priority • Rate limiting in each queue and traffic shaping on ports
Class of Service (CoS)	• IEEE 802.1p class of service (SPQ, WRR) • Port-based CoS • IP TOS precedence • 802.1p VLAN Information based CoS • DSCP based CoS • TCP/UDP Based CoS
Spanning Tree	• IEEE 802.1d Spanning Tree Protocol (STP) • IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
VLAN	• Up to 256 VLANs and 4096 VLAN IDs • 802.1Q tag-based VLAN • Port-based VLAN • Voice VLAN • Protocol VLAN • MAC VLAN • Surveillance VLAN • GVRP
IPv6	• IPv6 over Ethernet (RFC 2464) • Dual-stack (RFC 4213) • ICMPv6 (RFC 4884) • Neighbor discovery (RFC 4861) • Auto configuration • Static IPv6 address and prefix length • Static IPv6 default gateway • IPv6 duplicate address detection
Link Aggregation /Port Trunking	• IEEE 802.3ad LACP Trunk-Static Trunk up to 8 Trunk Groups
Port Mirroring	• Port Mirroring both on Ingress and Egress Traffic
IGMP Snooping	• IGMP v1/v2/v3 snooping
Security	• RADIUS • AAA • Management Access • Authentication Manager • Port Security • Protected Port • Storm Control • DoS • Dynamic ARP Inspection • DHCP Snooping • IP Source Guard
Management	• User Interface: Web-based Management • User Account: Login Account Configuration • Firmware Upgrade: Firmware Upgrade by WEB • Syslog: Support event log, alarm log and security log

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APPLICATION

Core Switch

Gigabit Fiber Line
Gigabit Copper Line
Long Range 10Mbps Copper Line

550M-30KM

550M-30KM

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550M-30KM

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Long Range Up to 200 Meters

550M-30KM

550M-30KM

IP Camera

IP Camera

Network Printer

Work Group

Server

Work Group

Access Point

IP Phone

Server

Server

Server

Area 1

Area 2

Area 3