



28-Port Gigabit SFP L2+ Managed Switch with 4 10GbE SFP+ Ports

FS-5428X

FEATURES

- 24 Gigabit SFP ports and 4 10GbE SFP+ ports
- Dedicated Intelligent Thermal Controller to control fan speeds for power saving and noise reduction
- Dual-firmware images for robust failover mechanisms
- DHCP snooping to protect the integrity of the legitimate DHCP server and its operations
- Supports L2+ management features, including Static Routing, Inter-VLAN, SNMP v1/v2c/v3, Access Control List (ACL), QoS, 802.1Q VLAN, IPv4/IPv6, Port Trunking, Port Mirroring, IGMP v1/v2/v3 Snooping and more
- Supports 128Gbps backplane bandwidth, 95.2Mpps forwarding rate, 32K MAC address table and 12KB jumbo frame

OVERVIEW

The EDIMAX Pro FS-5428X fully fiber L2+ (Layer 2 Plus) Managed Switch is with a web-base user interface switch designed for enterprise and SMB networks. With 24 Gigabit SFP ports and 4 10-Gigabit SFP+ ports, it goes up to 40Gbps of fiber-optic uplinking capacity, providing fast and reliable connectivity for demanding tasks such as data backup, video conferencing, and more.

The switch is equipped with a range of L2+ management features, including Static Routing, Inter-VLAN, SNMP v1/v2c/v3, Dual Firmware, Access Control List (ACL), DHCP Snooping, QoS, CoS, STP, 802.1Q VLAN, IPv4/IPv6, Port Trunking, IGMP v1/v2/v3 Snooping, and Port Mirroring, to provide a secure, scalable, and reliable switch solution for enterprise and SMB network.

Powerful Full Fiber Optic Kilometer-Grade Switch with SFP+ 10GbE Uplink Flexibility

Equipped with 24GbE SFP ports for high-speed kilometer-grade long distance connections and 4 dedicated SFP+ 10GbE fiber ports for up to 40Gbps of fiber-optic uplinking capability. The multiple SFP ports also allow the FS-5428X to be easily deployed in data centers with multiple server network integrations. Connection between physical locations such as branches and retails are made possible. Network deployment can also be made for remote workgroup environments such as factories, business buildings, industrial parks, and even residential communities.

Power Saving Implementation with Intelligent Thermal Controller

With a dedicated and intelligent microchip for cooling system control, the switch can measure the environmental temperature and control fan speeds, also turns on/off each fan for power saving and noise reduction.

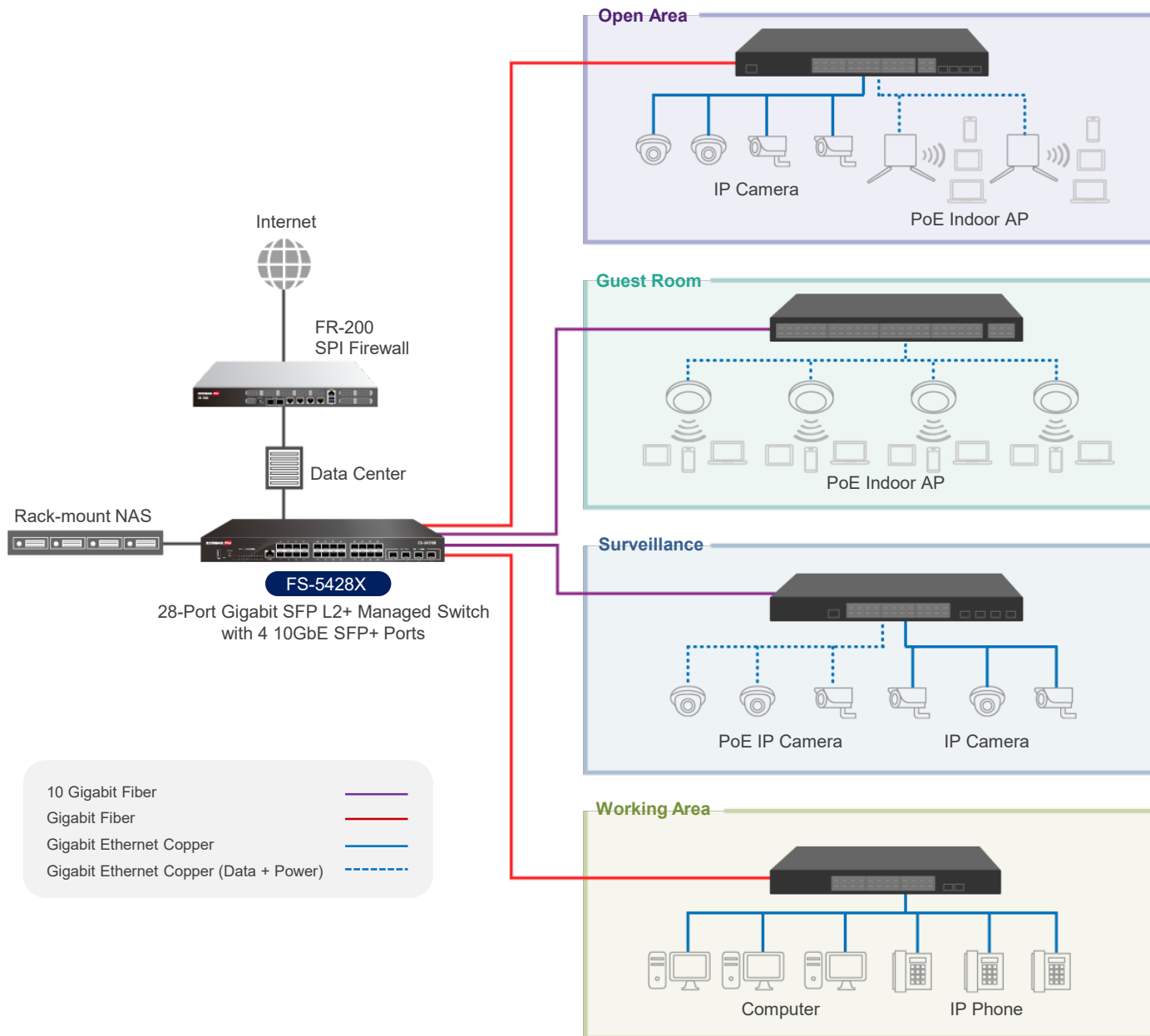
Stable and Reliable Network with Dual Firmware

The dual firmware feature allows switches to have two firmwares stored. You can set up and implement an active and a backup firmware. If the current firmware faces problems, you can activate the backup firmware right away to reduce downtime.

Intuitive and Powerful Smart L2+ Management

Designed for enterprise and SMB networks that require L2+ network management, the switch meets the network growing need by providing advanced essential features such as Static Routing, Inter-VLAN, SNMP v1/v2c/v3, Access Control List (ACL), QoS, CoS, STP, 802.1Q VLAN, Port Trunking (Link Aggregation), Broadcast Storm Control, Loop Detection/ Prevention, IPv4/IPv6, Port Mirroring and more. Experience fast and easy operations with just a few simple clicks through the user-friendly web-based management utility, your network is ready to use with ease.

APPLICATION DIAGRAM



SPECIFICATIONS

HARDWARE

Ports	<ul style="list-style-type: none"> • 24 x SFP 1000Base-SX/LX Gigabit ports • 4 x SFP+ 10GBase-X 10 Gigabit uplink ports • 1 x RJ45 Console port (Console cable included) • 1 x USB 3.0 port (for system log backup)
Buttons	<ul style="list-style-type: none"> Reset button • SYS ALM: System Alert • SYS: System Status
LED Indicators	<ul style="list-style-type: none"> • PWR: Power Status • Link/Act: Connection and Transmission Status (1-28 port)
Power Input	100-240V AC, 50-60Hz, internal power supply
Mounting	Rack-mount (Rack-mount kit included)
Housing	Metal
Fan	3 x Fan with Intelligent Thermal Controller
Dimensions	441 (W) x 270 (D) x 44 (H) mm (17.36 (W) x 10.63 (D) x 1.73 (H) inches)
Weight	3.82kg (8.42lb)

PERFORMANCE

Switching Capacity / Backplane	128Gbps
Forwarding Rates	Max. 95.2Mpps (64-byte package size)
MAC Address Table	32K
Jumbo Frame	12KB
Packet Buffer	16Mb

OTHERS

Standard	<ul style="list-style-type: none"> • IEEE 802.3z 1000Base-SX/LX Gigabit Ethernet over fiber • IEEE 802.3ae 10GBase-X Gigabit Ethernet over fiber • 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 VLANs • IEEE 802.1d Spanning Tree Protocol (STP) • IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) • IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) • IEEE 802.1AB Link Layer Discovery Protocol (LLDP), LLDP-MED (Media Endpoint Discovery) • IEEE 802.3ad Link Aggregation Control Protocol (LACP) • IEEE 802.3az Energy Efficient Ethernet
Environmental Condition	Temperature: <ul style="list-style-type: none"> • Operating: 0~50°C (32~122°F) • Storage: -40~70°C (-40~158°F) Humidity: <ul style="list-style-type: none"> • Operating: 10~90% (NonCondensing) • Storage: 10~90% (NonCondensing)
Certifications	FCC, CE, BSMI

SMART FEATURES

Quality of Service (QoS)	<ul style="list-style-type: none"> • Rate limiting on packets sent and received by an interface • 8 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)	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • IEEE 802.1d Spanning Tree Protocol (STP) • IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) • IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
VLAN	<ul style="list-style-type: none"> • Up to 256 VLANs and 4096 VLAN IDs • 802.1Q tag-based VLAN • Port-based VLAN • Surveillance VLAN • Voice VLAN • MAC VLAN • GVRP • Inter-VLAN
IPV6	<ul style="list-style-type: none"> • 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 Route • Static IPv6 default gateway • IPv6 duplicate address detection
Port Trunking	<ul style="list-style-type: none"> • IEEE 802.3ad LACP Trunk-Static Trunk • Up to 8 trunk groups
IGMP Snooping	<ul style="list-style-type: none"> • IGMP v1/v2/v3 snooping • Block unknown multicast traffic
Port Mirroring	Port Mirroring Traffic Direction: <ul style="list-style-type: none"> • Both (Ingress and Egress) • Ingress • Egress
Security	<ul style="list-style-type: none"> • RADIUS • TACACS+ • AAA • Management Access • Authentication Manager • Port Security • Protected Port • Broadcast Storm Control • DoS • Dynamic ARP Inspection • DHCP Snooping • IP Source Guard • BPDU Guard • Remote Access: HTTPS/SSH/HTTP/Telnet/Session Timeout
Management	<ul style="list-style-type: none"> • 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 • Dual-firmware image for failover mechanisms • ACL (Access Control List) • CLI (Command-Line Interface) • User Account: Login account configuration • SNMP v1/v2c/v3

Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.

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