Type: SAE-PE242400-QSFP-NMS

Technical Specification of SAE-PE242400-QSFP-NMS

24 POE ports & 24 port 10/100/1000 switch & 4 Gigabit fiber ports(SFPs)

PoE Switch with 24 PoE Ports and 4 Gigabit fiber Ports

- 22-Port 10/100/1000Base-T + 2 Combo + 2 (100/1000M) SFP
- L2+ features provide better manageability, security, QoS, and performance.
- Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, POE+ management, IP Source Guard, ARP inspection, ACLs etc.
- Support spanning tree STP(802.1D) and RSTP(802.1W).
- Jumbo frames support up to 9.6K kilobtyes.
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.
- Support cable diagnosis
- Meet IEEE 802.3af PoE standard. Supports per port PoE configuration function
- G.8032, support <50ms industrial quick ring protection

Product Description

This Gigabit smart L2+ PoE switch can prepare a field that power and data can feed from a single point, using Power over Ethernet (PoE) over a single cable. One 24 Gigabit Ethernet ports and one console port it prepared any 10/100/1000 Mbps link and the rest of 24 ports can supply industry-standard IEEE 802.3af power for every POE standard devices.

Regards to using advanced auto-sensing algorithm the **SAE-PE242400-QSFP-NMS** gives power only to IEEE802.3af front-end devices, so don't worry about connecting PoE or non-PoE devices to this feeder. Additionally, this good gives up the power when PoE devices are disconnected. Intelligently, this manageable PoE Switch **SAE-PE242400-QSFP-NMS** can recognized automatically PoE demands of devices, speed, duplex, and cable type using Auto Uplink™.

Remarkably, It has four giga bit fiber ports(SFPs) that helps smart CCTV network designers to improve their planning and use the switch intelligently. Additionally, network planners would control the network parameters via web management system.

SAE-PE242400-QSFP-NMS made by high quality of components were rigorous screened, have superior performance in stability, environmental adaptability. The product planned in a way of better resistance and ability to corrosion and electromagnetic interference. Power input also made a suitable and reliable types of power, to get more powerful suitability to environment.

: Applications

- IP cameras monitoring systems and transmitting systems
- Access points wireless systems and transmission data
- IP telephony , virtual PABX and intelligent unmanned systems
- Management and support Intelligent transportation supervisory （ITS）
- Monitoring TV medical and management
- School , campus, and… monitoring and remote control

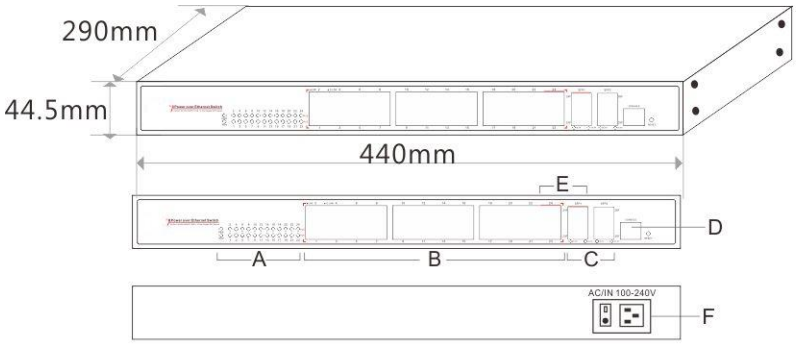
: Technical spesification

Product	**SAE-PE242400-QSFP-NMS**
Performance (Switching capacity and forwarding rate)	
Capacity in Millions of Packets per Second (mpps) (64-byte packets)	38.69
Switching Capacity in Gigabits per Second (Gbps)	52
Interface	
Ports	22-Port 10/100/1000Base-T + 2x TP/SFP Combo + 2x (100/1000M) SFP slots
Layer 2 Switching	
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w
G.8032 ERPS	<50ms ring protection for industrial high reliable application
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 13 groups ;Up to 16 ports per group
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) ;Port-based VLAN; 802.1Q tag-based VLAN
IGMP v1/v2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is not supported)
Security	
Secure Shell (SSH) Protocol	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch
Port Security	Locks MAC Addresses to ports, and limits the number of

	learned MAC addresses
DHCP Snooping	prevent unauthorized configuration and use of IP addresses, while providing support for IP Source Guard and ARP detection
IP Source Guard	Prevents datagram with spoofed addresses from being in the network
ARP Inspection	Prevent ARP spoofing attacks and ARP
Storm control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
ACLs	Support for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag
Quality of Service	
Hardware Priority Queue	Support 8 hardware queues
Scheduling	8 COS queues per port support strict priority and weighted round-robin (WRR)
Classification	Port based; 802.1p(PCP) VLAN priority based;
Rate Limiting	Ingress policer;egress shaping and rate control;per VLAN,per port and flow based
Management (Web/ SSL, Telnet/ SSH, ping, Trivial File Transfer Protocol (TFTP), SNMP, Syslog)	
Web GUI interface	Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPs). Supports configuration, system dashboard, maintenance, and monitoring
Dual Image	Dual image provides independent primary and secondary OS files for backup while upgrading
Firmware upgrade	Web browser upgrade (HTTP/ HTTPs) and TFTP;Upgrade through console port as well
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to **N-1 (N is Switch's Ports)** ports can be mirrored to single destination port. A single session is supported.
Other management	Single IP management; HTTP/HTTPs; SSH; RADIUS; DHCP Client; SNTP; cable diagnostics; ping; syslog; Telnet client (SSH secure support)
Green Ethernet	
Green and Energy-saving Ethernet (EEE)	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects

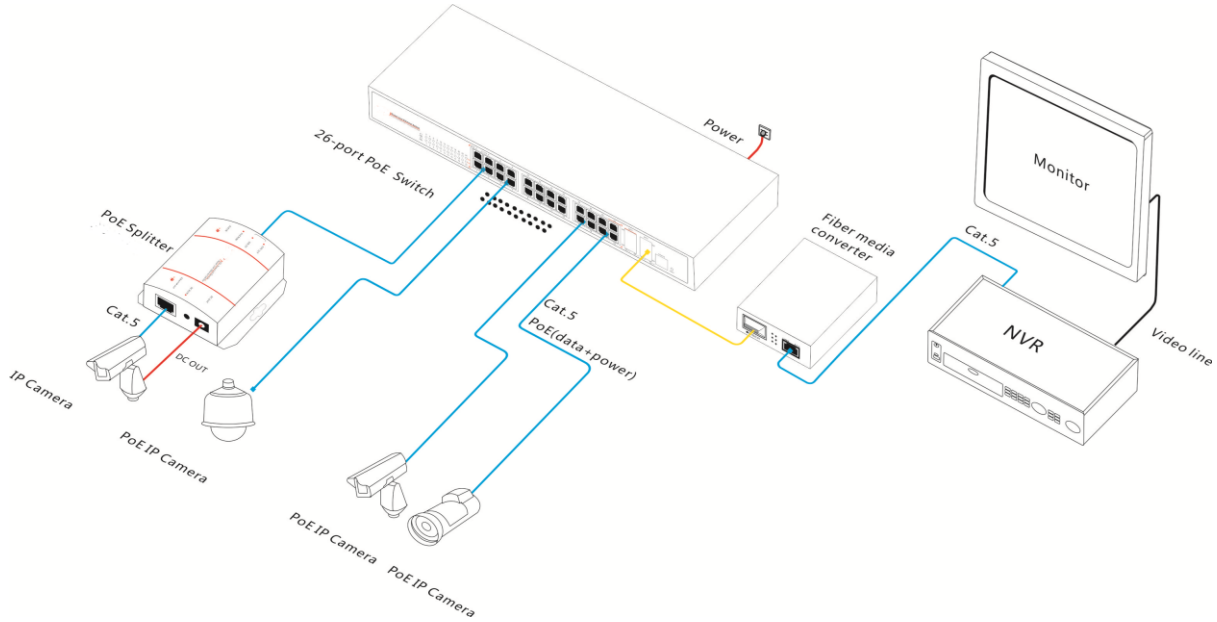
	the link up
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter.
General	
Jumbo frames	Frame sizes up to 9KB supported on Gigabit interfaces
MAC Table	Up to 8K MAC addresses.
Discovery	
Link Layer Discovery Protocol (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet.
PoE	
PoE Standard:	IEEE802.3af
PoE Ports:	24 ports support PoE Power Pin Type:
PoE Port Power:	15.4W per PoE port, can be customized by Web management software
Power Pin Type:	End-span (Mid-span optional)
Minimum Requirements	
Web browser	: Mozilla Firefox version 2.5 or later, Microsoft Internet Explorer version 6 or later; Category 5 Ethernet network cable; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in network
Environmental (preliminary)	
Dimensions	440x290x44.5mm
Working Environment	Operating temperature: -40 to 75 ℃; Storage temperature: -40℃ to 75 ℃; Operating humidity: 10% to 90% , relative, non-condensing

Product Size Display



A.Working LED indicator
B. 24 Gigabit PoE Ports
C. 4 Gigabit SFP Ports
D.CONSOLE Port
E.2 Gigabit TP/SFP Combo Ports
F.100-240VAC,50/60Hz

Product Application Display



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