



Smart Architecture of Espadana

Designing, Production, Customization and Consultant Service
in Network and Fiber Optic System



Technical Specification

SAE-PE484800F-QTGSFP-NMS

48 ports PoE 10/100/1000Mbps switch & 4x1/10G SFP+ fiber slot ports





Product Description

- 48 PoE ports support power over Ethernet for Power Devices, Support IEEE802.3af standard guaranty per ports
- Support IEEE 802.3af (15.5 watt/per port)
- 600 watts total power output
- Support L3 full network management function
- Provide QoS, port based, 802.1P based and DSCP based three priority modes, SP, WRR, SP+WRR four queue scheduling algorithms.
- Support spanning tree STP (802.1D) and RSTP (802.1W)
- auto detect, full/half duplex MDI/MDI-X adaptive
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP
- All gigabit design 48 x gigabit Ethernet RJ45 ports with Auto Uplink™, 1x console port, and 4 x 10G SFP+ slots ports
- Support 1U/19 inch rack installation

Full Description

This SAE-PE484800F-QTGSFP-NMS can prepare a field that power and data can feed from a single point, using Power over Ethernet (PoE) over a single cable. All the 48 Ethernet ports are capable of connecting with 10/100/1000Mbps and the uplink port of this switch is a fiber interface, through which all ports can support IEEE 802.3af/at power supply for every PoE standard devices.

Regards to using advanced auto-sensing algorithm the SAE-PE484800F-QTGSFP-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-PE484800F-QTGSFP-NMS can recognized automatically PoE demands of devices, speed, duplex, and cable type using Auto Uplink™.

SAE-PE484800F-QTGSFP-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 telephone, 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 specification

Product	SAE-PE484800F-QGSFP-NMS
Performance	
Buffer Memory	32M
Bandwidth	598Gbps
Forwarding Rate in Millions of Packets per Second (Mpps)	131Mpps
MAC size	32k
Ethernet Port Characteristics	auto detect, full/half duplex MDI/MDI-X adaptive
Network protocol	
IEEE802.3 10Base-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X IEEE802.3ae 10GBase-SR/LR; IEEE802.3x IEEE802.3af/at standard (PoE standard)	
Interface	
ports	48×10/100/1000Base-T PoE ports (Data/Power) 4× uplink 10G SFP+ slot ports (Data) 1×console port
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meter) 100BASE-TX: Cat5 or later UTP (≤100 meter) 1000BASE-T: Cat6 or later UTP (≤100 meter)
Optical Fiber Characteristics	Multi-mode: 850nm 0~300M(10G) , 850nm 0~500M (1.25G); Single-mode: 1310nm 0~40KM, 1550nm 0~120KM.
Spanning Tree Protocol (STP)	STP (IEEE802.1d) RSTP (IEEE802.1w) MSTP (IEEE802.1s)

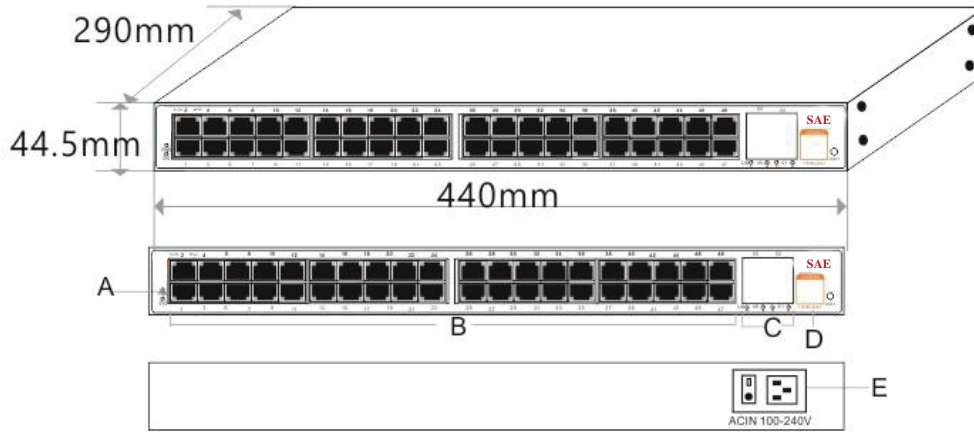


Aggregation	<p>Provide LACP</p> <p>Provide static polymerization</p> <p>Provide the largest 8 aggregation groups, each aggregation group</p>
VLAN	<p>Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs)</p> <p>4K VLAN based on IEEE802.1Q</p>
Multicast	<p>Provide IGMP Snooping V1/V2 and Provide 1024 multicast groups at most.</p> <p>Provide the user's quick departure mechanism</p> <p>Provide MLD Snooping V1/V2</p> <p>Provide multicast VLAN</p>
Industrial Ring Network Protocol	<p>Provide G.8032 (ERPS), Provide Up to 255 loops, and Provide 1024 devices per ring.</p> <p>The self healing time of the ring network is less than 20ms</p>
PoE Management	<p>Total power limit of PoE power supply</p> <p>PoE output power allocation per port, close/af/ at</p> <p>PoE output priority configuration for each port</p> <p>PoE working state display per port</p> <p>Power delay start</p> <p>PoE work and time scheduling</p>
QoS	<p>Diff-Serv QoS</p> <p>Each port Provide 8 output queues</p> <p>Provide 802.1p/DSCP priority mapping</p> <p>Provide queue scheduling mechanism (SP, WRR, SP+WRR)</p> <p>priority tag Mark/Remark</p> <p>stream based packet filtering</p> <p>Provide for stream base redirection</p> <p>Provide flow base speed limit</p>
Image	<p>Bi-directional traffic mirroring supporting the basic port</p>
Safety Features	
safety parts	<ul style="list-style-type: none"> ➤ Provide user grading management and password protection ➤ Provide IEEE802.1X authentication / centralized MAC address authentication ➤ Provide AAA & RADIUS authentication ➤ Provide the number of MAC address learning restrictions ➤ Provide MAC address black hole ➤ Provide SSH 2 to provide secure passwords for user login. ➤ Provide SSL to ensure data transmission security ➤ Provide port isolation ➤ Provide the speed limit function of ARP message ➤ Provide IP source address protection ➤ Provide ARP intrusion detection function ➤ Provide against DoS attacks ➤ Provide port broadcast message suppression ➤ Provide host data backup mechanism
ACLs	<p>Provide L3 packet filtering function, can match the first 80 bytes of the message, provide based on the source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL.</p> <p>Support ACL based on port and VLAN</p>



Management	
Maintenance and Web Interface	<ul style="list-style-type: none">Provide Console/AUX Modem/Telnet/SSH2.0 CLI command line configurationProvide WEB network management (HTTPS)Provide FTP, TFTP, SFTP file download managementProvide SNMP V1/V2C/V3Provide one bond reductionProvide NTP clockProvide system work logProvide Ping detectionProvide cable state detectionProvide CPU instant utilization status viewProvide link layer discovery protocol LLDPProvide NMS intelligent management center
Requirements	
System requirement	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer 10 or later; Cat5e or later Ethernet cable; TCP/IP, network adapter and network operating system (Microsoft Windows, Linux or Mac) installed on every computer in the network.
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter.
Power	
Power Supply Pin	Default: 1/2(+), 3/6(-)
Max / Average Power Per Port	30W/15.4W
Total PWR / Input Voltage	600W (AC100-240V)
Power Consumption	Full Load < 600W, No Load < 35W
Environmental aspects	
Working Environment	Operating Temperature: -20°C ~ 75°C Storage Temperature: -40°C ~ 75°C Operating humidity 5% to 90%
Net /Gross Weight	<4.8kg / <5.5kg
Dimension	440 x 289 x 44mm

Product Size Display



- A. Working indicator
- B. 48* PoE ports
- C. 4* 10G SFP+ ports
- D. Console port
- E. Power input port AC100-240V, 50/60Hz

Product Application Display

