

L3 Managed Industrial PoE Switch**4x1/10G SFP+, 48x10/100/1000Base-T RJ45****RB10X-4804M-PSE****FEATURES**

- ✧ Gigabit access, 10G uplink
- ✧ Security: port isolation, port broadcast storm suppression, IP+MAC+port+VLAN quadruple flexible combination binding function, 802.1X authentication
- ✧ Strong business processing capability
- ✧ Load balancing, link backup, and improve link reliability
- ✧ Intelligent PoE power supply

Product Overview

The RB10X-4804M-PSE switch has 48*10/100/1000Base-T PoE ports and 4*1/10G SFP+ fiber ports. Ports 1 to 48 can support IEEE802.3af/at standard PoE power supply, with a maximum power of 30W per port. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, webcam, VoIP phone, building visual access control intercom, etc. through a network cable to meet the network environment that needs high-density PoE power supply.

The RB10X-4804M-PSE supports IPV4/IPV6 management, dynamic routing full line-speed forwarding, complete security protection mechanism, perfect ACL/QoS policy, and rich VLAN functions, easy to manage and maintain. It supports a variety of industrial-grade redundant ring network protocols, and each port can form a ring network, supporting chain ring network, starring network, double starring network, ring network, tangent network ring network, intersecting ring network, coupled ring network, self-healing within ERPS <20ms of the ring network. The switches series has high reliability, high security, and high manageability, ensures reliable transmission of key data, supports remote management. The product completely follows the industrial product design and materials. The shell is made of aluminum alloy material to enhance heat dissipation. It has excellent adaptability to the industrial site environment (including mechanical stability, climate environment adaptability, electromagnetic environment adaptability, etc.). It is suitable for campus, hotel and enterprise Campus network network access, convergence and core application scenarios.

Technical Specifications

Parameters	L3 Managed Industrial PoE Switch	
Fixed Port	48x 10/100/1000Base-T PoE ports 4x 1/10G SFP+ ports 1x console port RJ45 and USB-A	
Ethernet Port	Port 1-48 support 10/ 100/ 1000Base-T auto-sensing, full/half duplex, MDI/MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)	
Optical Fiber Port	1/10G SFP+ optical fiber port, default no include optical modules (optional order single-mode/multi-mode, single fiber/dual fiber optical module. LC)	
Optical Fiber Port Expansion	Support Turbo overclocking 2.5G optical module expansion and ring network	
Optical Cable/ Distance	Multi-mode: 850nm /0~300M (10G), 850nm /0~500M (1.25G); Single-mode: 1310nm/ 0~40KM, 1550nm/ 0~120KM.	
Network Management Type	Layer 3	
Ring network	Supports ERPS ring network function, with a maximum number of rings of 5 and a convergence time of <20ms	
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-LR/SR, IEEE802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	176Gbps	
Buffer Memory	130.9Mpps	
MAC	32K	
LED Indicator	Power Indicator Light	PWR: 1 Green
	Fiber Indicator Light	SYS: 1 Green
	10G Fiber Indicator Light	49-52: 1 Green (Link,SPFED) 1-48 Yellow: Indicate PoE
	On the seat	1-48 Green: Indicates network working status
Reset Switch	Yes, Press and hold the reset switch for 5s and release it to restore the factory settings	
Power Supply	AC100-240V 50/60Hz 960W	
PoE Port	Port 1 to 48 IEEE802.3af/at	
Power Supply Pin	Default 1/2 (+), 3/6 (-)	
Lightning Protection	Lightning protection: 6KV 8/20us; Protection level: IP40 IEC61000-4-2(ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-3(RS): 10V/m(80~ 1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable: ±2kV	

	<p>IEC61000-4-5(Surge): power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6(radio frequency transmission): 10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field): 100A/m;1000A/m, 1s to 3s IEC61000-4-9(pulsed magnet field): 1000A/m IEC61000-4- 10(damped oscillation):30A/m 1MHz IEC61000-4- 12/ 18(shockwave):CM 2.5kV,DM 1kV IEC61000-4- 16(common-mode transmission):30V; 300V, 1s FCC Part 15/CISPR22(EN55022):Class B IEC61000-6-2(Common Industrial Standard)</p>
Mechanical Properties	<p>IEC60068-2-6 (anti vibration) IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)</p>
Certification	<p>CCC, CE mark, commercial, CE/LVD EN62368- 1, FCC Part 15 Class B, RoHS</p>
Operation TEMP /Humidity	<p>-40~+75°C; 5%~90% RH Non condensing</p>
Storage TEMP /Humidity	<p>-40~+85°C; 5%~95% RH Non condensing</p>
Dimension (LxWxH)	<p>440mmx300mmx44mm</p>
Installation	<p>Desktop, 19 inch 1U cabinet installation</p>
Software Features	
L3 Function	<p>Support L3 network management function Supports IPV4 dynamic routing RIPv1/v2, OSPFv2 Supports IPV4/IPV6 static routing/default routing, each supporting a maximum of 128 entries Supports three-layer routing forwarding, supports communication between different network segments and VLANs</p>
Port configuration	<p>Auto-negotiation Flow Control Port Mirror: TX/RX/BOTH; Many-to-1 monitor Traffic statistics</p>
Link Aggregation	<p>Static link aggregation LACP Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP</p>
MAC Table	<p>Aging Time Static MAC address Dynamic MAC address management</p>
VLAN	<p>4094 Active VLANs 4094 VID 802.1Q Tag VLAN Port VLAN Protocol VLAN</p>

	<p>MAC VLAN Voice VLAN 802.1ad Q-in-Q tunneling Private VLAN (Protected port) GARP/GVRP</p>
ACL	<p>256ACLs L2, L3 e L4 Time-based ACL</p>
Spanning tree	<p>802.1D Spanning Tree Protocol (STP) 802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Spanning Tree Protocol (MSTP) Loop Guard Root Guard TC-BPDU Guard BPDU Guard BPDU Filter</p>
Ring Protection	<p><20ms G.8032 ERPS Ring</p>
Multicast	<p>256 groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN</p>
QOS	<p>Port-based CoS 802.1p-based CoS DSCP-based Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port</p>
DHCP	<p>SNMP v1/v2c/v3 with Full Private MIBs RMON 4 groups WEB (HTTP/HTTPS) CLI (Telnet, Console, SSHv1/v2) Firmware upgrade via console/web/TFTP Configuration Backup/Reload Dual Firmware LLDP</p>
Security Features	<p>Port Security MAC address filter ARP Association (Manual, ARP scanning, DHCP snooping) ARP Protection DoS (Denial of Service) Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type; 802.1x Authentication (port-based e MAC-based) TACACS/TACACS+ Authentication RADIUS Authentication DHCP Filter Guest VLAN SSLv2/SSLv3/TLSv1</p>

	SSHv1/SSHv2 Restriction of WEB access based on: IP Address, And. MAC and Port; Port Isolation Loopback detection
Other Features	DNS Client DHCP Relay DHCP Client DHCP Snooping DHCP Option 82 SNTP Client UDLD
Maintenance	Cable Diagnostics Ping SFP DDM(Digital Diagnostics Monitoring) Thermal protection System log (Local and Remote) Memory and CPU Monitoring

Ordering Information

Model No.	Description
RB10X-4804M-PSE	L3 Managed Industrial PoE Switch, 4x 1/10G uplink SFP+ and 48x10/100/1000M Base-T RJ45 900W total PoE budget, up to 30W per port (IEEE 802/3af/at) AC 90-240V power input, 19: rack mountable, -40~+75C op. temperature