

RBG-T4804M3-AC-PSE

48x 10/100/1000Base-Tx and 4x 10GBase-X SFP+
Layer 3 Managed Switch with 400W of PoE power



The managed RBG-T4804M3-AC-PSE model is a new generation intelligent Layer 3 aggregation switch. The new high performance hardware supports functions such as ACL, QinQ and comprehensive QoS designed for carrier IP MANs or enterprise data networks.

Capabilities

Carrier-Level Ethernet Access Switch

- The carrier-level Ethernet- ring protection protocol with less than 50ms recovery time, STP/RSTP/MSTP, backup uplink ports, and LACP link aggregation to cater to the requirements of high reliability of carriers
- Has powerful ACL functions to access and control L2-L7 data based on physical port, providing carriers flexible and various policy control methods
- In-Service Software Upgrade (ISSU) to ensure the unremitting data forwarding during system upgrade
- Various L2 multicast functions such as IGMP-snooping, fast-leave and MVR to fully meet the operation requirements of carrier's IPTV

Comprehensive IPv6 Solutions

- The IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6 and Path MTU discovery
- Ping, Traceroute, Telnet, SSH and ACL on the basis of IPv6, meeting IPv6 networks' equipment management requirements and service control requirements

Enhanced QoS

- Priority retagging and complex flow classification based on VLAN, MAC, source address, destination address, IP or priority, better streamlining carrier's services
- Provides flexible bandwidth control policies, supporting port-/flow-based flow limit, ensuring the line speed forwarding of each port
- Multiple queue schedule algorithms such as SP, WRR and "SP + WRR"

Security+

- Equipment-level security: The advanced hardware infrastructure design realizes the level-based packet schedule and packet protection, prevents DoS-/TCP- related SYN Flood, UDP Flood, Broadcast Storm or large traffic attacks, and supports level-based command line protection, endowing different levels of users with different management permissions
- Perfect security authentication mechanisms: IEEE 802.1x, Radius and BDTacacs+
- Storm/multicast/unicast limit, ensuring the normal running of equipment in harsh network conditions
- Perfect ring detection mechanism, ensuring the long-term stable running of network
- Port isolation within the same VLAN, DHCP-Snooping, and IP + MAC + Port binding

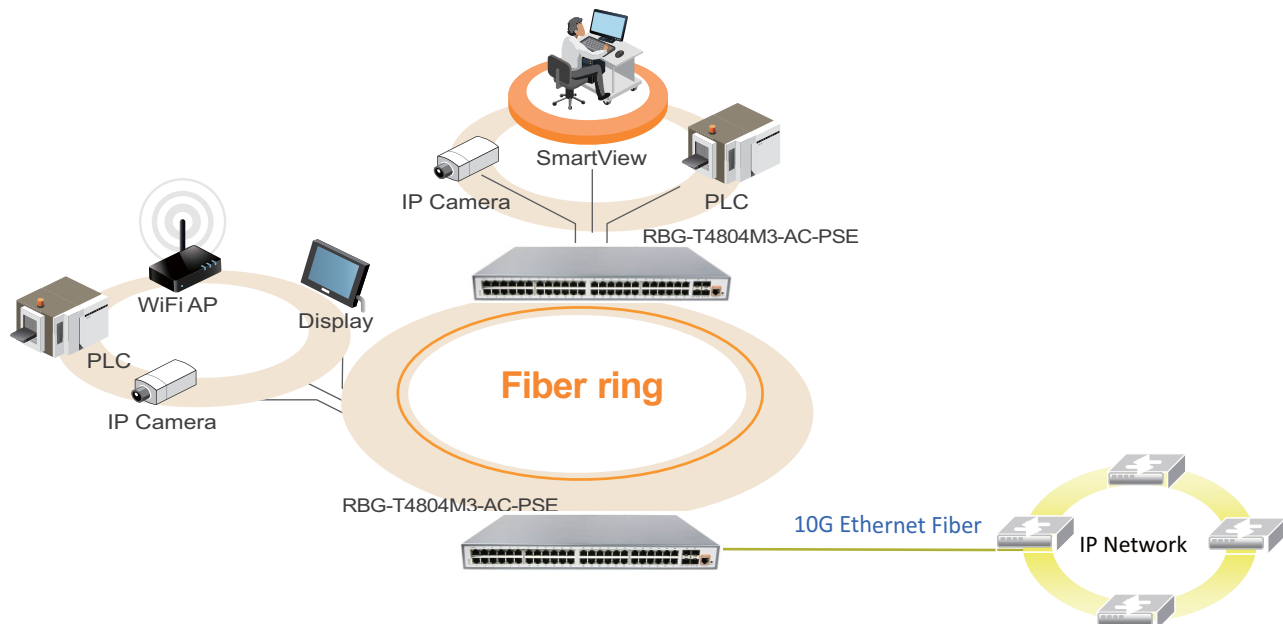
Easy Management and Maintenance and PoE+ PD support

- Many management modes such as the CLI, Telnet, SSH, SSL and SNMP WEB management mode, which is easy and efficient for installing and debugging the device
- FTP, TFTP and SFTP
- ISSU (In-Service Software Upgrade)
- SNMP and NMS smart network management platform. The combination realizes automatic equipment discovery, network topology management, equipment configuration management, performance data statistics and analysis and trouble management
- Zero Touch Provisioning (ZTP) function to minimize manual operator intervention and helps reduce customers' initial deployment costs
- 400W of PoE power budget available for PoE PD devices, IEEE 802.3af/at compatible (up to 30W/port, PoE+ supported)

Features

- **VLAN:** 4K Active VLAN, QinQ & Selective QinQ, GVRP, Private VLAN, Voice VLAN
- **Spanning Tree:** 802.1D (STP) 802.1W (RSTP) and 802.1S (MSTP) BPDU guard, root guard and loopback guard
- **Multicast:** IGMP v1/v2/v3, IGMP Snooping, IGMP Fast Leave, MVR, IGMP filter
- **IP:** Static route, IPv4/v6 dual stack
- **Accessories:** Power cord, rackmount kits, console cable
- **QoS:** CAR, HQoS, MAC/IP/TCP/UDP/ VLAN/ COS/ DSCP/ TOS based QoS, 802.1P/ DSCP priority re-labeling, SP, WRR, and "SP+WRR", Tail-Drop, WRED, flow monitoring and traffic shaping
- **Security:** Port isolation, Port security, and "IP+MAC+port" binding, MAC sticky DHCP Snooping and option 82, DAI & IP source guard, PPPoE+, IEEE 802.1x, Radius and BDTacacs+ L2/L3/L4 ACL flow identification and filtration Anti-attack from DDoS, TCP's SYN Flood, UDP Flood, etc. Broadcast/multicast/unknown unicast storm-control MD5, SHA-256, RSA-1024, AES256, etc.
- **Reliability:** Static/LACP link aggregation, Interface backup EAPS and ERPS, ISSU uninterrupted system upgrade
- **Management:** Console, Telnet, SSH v1/2, HTTP, HTTPS SNMP v1/v2/v3, RMON TFTP, FTP, SFTP NTP ZTP (Zero Touch Provisioning), SPAN, RSPAN
- **Environment:** Operating temperature/humidity: 0°C -50°C, 10%-90% non-condensing
Storage temperature/humidity: -20°C -70°C, 5%-95% non-condensing
- **Certification:** CE, FCC, ROHS

Application



RBG-T4804M3-AC-PSE Gigabit Ethernet Managed L3 Switch Application

Specifications

PART NO	RBG-T4804M3-AC-PSE
Interface	48 GE ports, 4×10GE/GE SFP+ ports
Console	1 RJ45
Backplane	176 Gbps
Forwarding Rate	132 Mpps
Total output BTU (1000BTU/H=293W)	1347.44
Fan Number	2
Noise@25°C(dBA)	45
MTBF(H)	>50,000
Forwarding Mode	Store-forward
Flash (MB)	16
DRAM (MB)	256
MAC	32K
Buffer Size(MB)	4
Jumbo Frame	9K
Total SVI	10
Power Supply	AC:100V-240V,50Hz ± 10% 430W
Power Consumption	
Full-load	<430W; ~400W available for 802.3af/at PoE PD devices (supports PoE+ 30W per port power)
Chassis	
Dimensions(WxDxH)(mm)	440*280*44
Weight(KG)(empty)	4.3
Package	
Dimensions(WxDxH)(mm)	576*448*94
Weight(KG)	5.5

Ordering Information

PART NO	DESCRIPTION
RBG-T4804M3-AC-PSE	Ethernet switch with 48 GE ports with PoE+ functions and 4 10GE ports (1 console port, 48 GE ports, 4 10GE/GE SFP+ ports; 1 AC220V power supply, 1U, standard 19-inch rack-mounted installation)

Transceiver Modules	
10G SFP+ Transceivers	
SFP-1000-RJ45	10G-BaseT copper RJ45 module (1G/2.5G/5G compatible)
SFP-1000-SR	10GE SFP+ multi-mode (300m, 850nm, LC)
SFP-1010-LR	10GE SFP+ single-mode (10Km, 1310nm, LC, DDM)
SFP-1020-LR	10GE SFP+ single-mode (20Km, 1310nm, LC, DDM)
SFP-1040-ER	10GE SFP+ single-mode (40Km, 1310nm, LC, DDM)
SFP-1080-ZR	10GE SFP+ single-mode (80Km, 1550nm, LC, DDM)
SFP-1010-WA/SFP-1010-WB	10GE SFP+ single-mode, single-fiber (10Km, TX1270/RX1330, LC, DDM) 10GE SFP+ single-mode, single-fiber (10Km, TX1330/RX1270, LC, DDM)
SFP-1020-WA/SFP-1020-WB	10GE SFP+ single-mode, single-fiber (20Km, TX1270/RX1330, LC, DDM) 10GE SFP+ single-mode, single-fiber (20Km, TX1330/RX1270, LC, DDM)
SFP-1040-WA/SFP-1040-WB	10GE SFP+ single-mode, single-fiber (40Km, TX1270/RX1330, LC, DDM) 10GE SFP+ single-mode, single-fiber (40Km, TX1330/RX1270, LC, DDM)
Gigabit SFP Transceivers	
SFP-7000-RJ45-ALL	10/100/1000-BaseTx copper RJ45 module
SFP-7000-85	GE SFP multi-mode(500m,850nm,LC,DDM)
SFP-7010-31	GE SFP single-mode(10Km,1310nm,LC,DDM)
SFP-7020-31	GE SFP single-mode (20Km, 1310nm, LC, DDM)
SFP-7040-31	GE SFP single-mode (40Km, 1310nm, LC, DDM)
SFP-7080-55	GE SFP single-mode (80Km, 1550nm, LC, DDM)
SFP-7120-55	GE SFP single-mode (120Km, 1550nm, LC, DDM)
SFP-7002-WA/SFP-7002-WB	GE SFP single-mode, single fiber (2Km, TX1310/RX1550, LC, DDM) GE SFP single-mode, single fiber (2Km, TX1550/RX1310, LC, DDM)
SFP-7020-WA/SFP-7020-WB	GE SFP single-mode, single fiber (20Km, TX1310/RX1550, LC, DDM) GE SFP single-mode, single fiber (20Km, TX1550/RX1310, LC, DDM)
SFP-7040-WA/SFP-7040-WB	GE SFP single-mode, single fiber (40Km, TX1310/RX1550, LC, DDM) GE SFP single-mode, single fiber (40Km, TX1550/RX1310, LC, DDM)
SFP-7080-WA/SFP-7080-WB	GE SFP single-mode, single fiber (80Km, TX1490/RX1550, LC, DDM) GE SFP single-mode, single fiber (80Km, TX1550/RX1490, LC, DDM)
SFP-7120-WA/SFP-7120-WB	GE SFP single-mode, single fiber (120Km, TX1490/RX1550, LC, DDM) GE SFP single-mode, single fiber (120Km, TX1550/RX1490, LC, DDM)