FULLRIVER
Link our dreams

48-Port Gigabit + 4-Port Gigabit SFP L2 Managed PoE Switch

FR-S3052PEGMF-C

Characteristics

- Wire speed forward, intelligent recognition
- Integrated High-Performance Cortex-A9 processor.
- Four Gigabit SFP port
- Internal 450W Power supply
- Switching Capacity 104Gbps
- Supports PoE power up to 30W for each PoE port, 400W for all PoE ports

Description

FR-S3052PEGMF-C is a new generation designed for high security and high performance network the second layer switch. Provides forty-eight 10/100/1000Mbps self-adaption RJ45 port, plus four gigabit SFP optical port, it can be used to link bandwidth higher upstream equipment. Support VLAN ACL based on port, easily implement network monitori-ng, traffic regulation, priority tag and traffic control. Support traditional STP/RSTP/MSTP 2 link protection technology; greatly improve the ability of fault tolerance, redundancy backup to ens-ure the stable operation of the network. Support ACL control based on the time, easy control the access time accurately. Support 802.1x authentication based on the port and MAC, easily set user access. Perfect QOS strategy and plenty of VLAN function, easy to maintenance and management, meet the networking and access requirements of enterprises, intelligent village, hotel, office network and campus network.Built-in high reliability, de-sign for wide voltage input application power supply, even if the voltage is not stable of power grid, also can guarantee the equipment can work normally.

FR-S3052PEGMF-C 48 ports have PoE power supply function, support IEEE802.3at standard, 802.3af downward compatibility, power supply equipment for Ethernet, can automatically detect identification standard of electrical equipment, and through the cable for the power supply.

The application of topology

● **48-Port Gigabit + 4-Port Gigabit SFP L2 Managed PoE Switch**   **FR-S3052PEGMF-C**
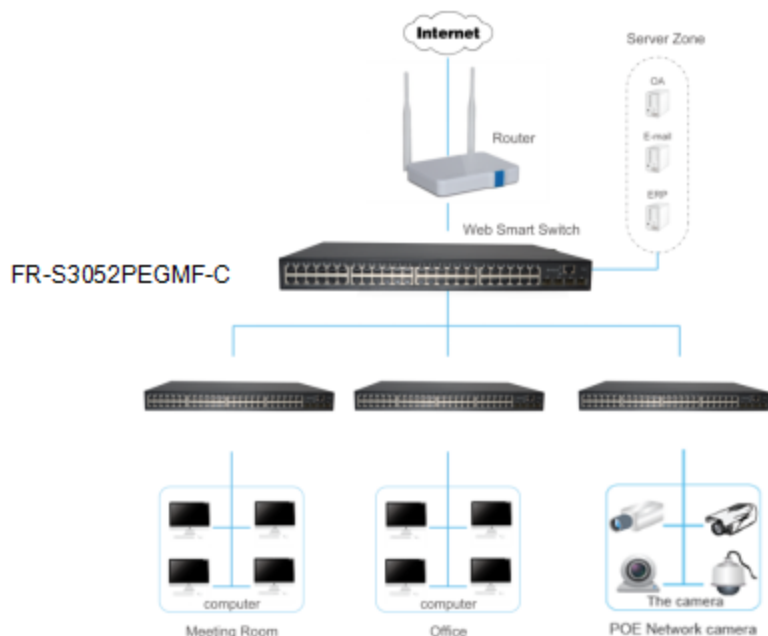
Features

➤ Supports IEEE 802.3i，IEEE 802.3u，IEEE802.3ab，IEEE802.3z，IEEE802.3x，IEEE802.3at，IEEE802.3af，IEEE802.3az.

➤ Supports PoE power up to 30W for each PoE port, all power up to 400W.

➤ Integrated High-Performance Cortex-A9 processor.

➤ Supports MAC address auto-learning and auto-aging.

➤ Forty-eight 10/100/1000Mbps self-adaption RJ45 port, plus four gigabit SFP port, it can be used to link bandwidth higher upstream equipment.

➤ Store and forward mode operates.

➤ LED indicators for monitoring power, link/activity,Speed.

➤ Support QoS, port mirroring, link aggregation protocol.

➤ 19 inches full metal iron shell and internal 400W high performance power supply design, suitable for rack installation.

Hardware Specification

Model	FR-S3052PEGMF-C
Chipset	2*BCM53344+2*B50282+6*PD69208M+PD69200
Standards	IEEE 802.3i，IEEE 802.3u，IEEE802.3ab，IEEE802.3x，IEEE802.3az,IEEE802.3af、IEEE802.3at
Number of Ports	48 x 10/100/1000Mbps ports 4 x 1000Mbps SFP ports 1x Console port
Network Media (Cable)	10Base-T: UTP category 3, 4, 5 cable (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m) 1000Base-T: UTP category 5e, 6 cable (maximum 100m) 1000Base-X:MMF,SMF
Transfer Method	Store-and-Forward
MAC Address Table	16K
Switching Capacity	104Gbps
Packet Forwarding Rate	77.376Mpps
Packet Buffer	1.5MBytes
Jumbo Frame	12KBytes
PoE Ports(RJ45)	48x PoE ports compliant with 802.3at/af
Power Pin Assignment	1/2(+),3/6(-)

PoE Budget		400W
Indicators	Per Device	Power
	Per Port	Link/Activity/Speed
Power Supply		100~240VAC,50/60Hz,450W
Power Consumption		Maximum(PoE on): 474.1W(220V/50Hz)
Dimensions (W×D×H)		440x330x44.5mm (19″ metal case)
Environment		Operating Temperature: 0℃~45℃ Storage Temperature: -40℃~70℃ Operating Humidity: 10%~90% non-condensing Storage humidity: 5%~90% non-condensing

▌Software Specification

Management	➢ Support Telnet, SSH remote management ➢ Support the SNMP ➢ Support cluster with cluster network management
Port features	➢ Support port isolation ➢ Support port loop detection ➢ Support the ULDP ➢ Support LLDP ➢ Support the Port Channel configuration ➢ Support LED shut - off ➢ Support Jumbo packet
VLAN&MAC Adress	➢ Support for MAC/strategy/port/protocol/IP subnet VLAN ➢ Support Dot1q tunnel ➢ Support GVRP ➢ VLAN - translation ➢ Support support MAC address automatic learning and aging ➢ Support the source MAC address filtering

STP	➢ Support STP
QoS	➢ Support WRR, WDRR queue scheduling algorithm ➢ Support flexible QinQ operation
Three layer forward and routing protocols	➢ Support three layer forward ➢ Support the ARP configuration ➢ Support the static routing, OSPF, RIP configuration ➢ Support IPv4 and IPv6 routing
DHCP	➢ Support the DHCP relay ➢ Support the DHCP Server ➢ Support DHCP Snooping
Multicast protocol	➢ Support DCSCM configuration ➢ Support IGMP Snooping ➢ Support IPv6 multicast, MLD configuration
Safety features	➢ Support 802.1 x the Radius authentication ➢ Support for AM ➢ Supports IPv6 security RA configuration ➢ Support the MAB configuration ➢ Support SSL ➢ Support for protection against Dos attacks ➢ Support ACL
PoE	➢ Support PoE Management
Reliability	➢ Support MRRP ➢ Support ULPP
The network time	➢ Support SNTP ➢ Support the NTP
Traffic monitoring	➢ Support port mirror ➢ Support the sFlow