# FULLRIVER
## Link our dreams

# 24-Port Gigabit + 4-Port Gigabit SFP L2 Managed Ethernet Switch
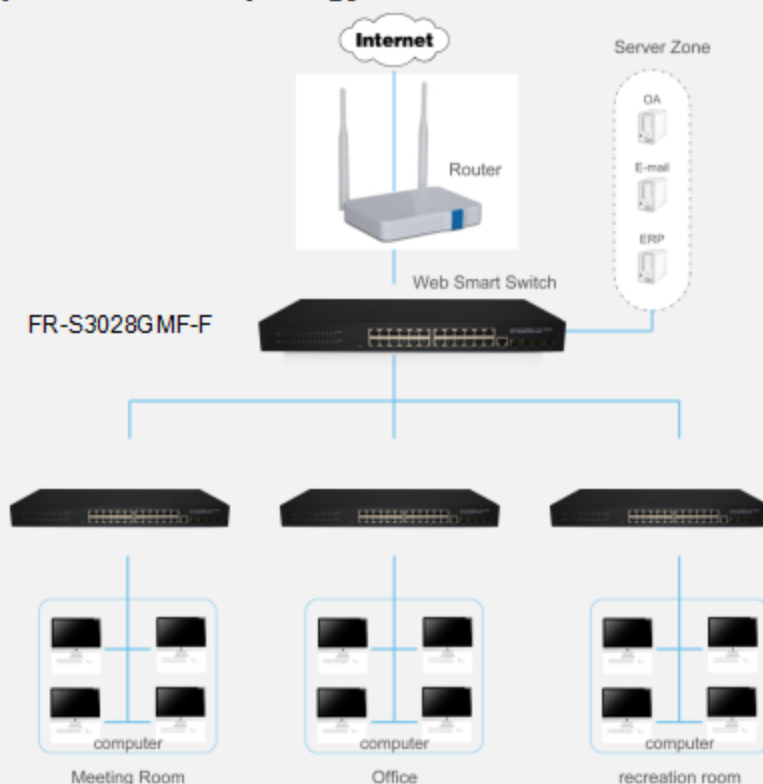
## FR-S3028GMF-F

## characteristics

- The second managed gigabit switch
- Four gigabit SFP fiber port
- Fully integrated 512KB packet buffer
- Integrated High-Performance Cortex-A9 processor
- Internal power supply,high performance,durable stability
- Switching Capacity 56Gbps

## ▊ Description

FR-S3028GMF-F is a high performance the second managed gigabit switch. Provides twenty-four 10/100/1000Mbps self-adaption RJ45 port, plus four gigabit SFP optical port, it can be used to link bandwidth higher upstream equipment. Using store-and-forward technology, combined with dynamic memory allocation, ensure the bandwidth effective allocation to each port. Support VLAN ACL based on port, easily implement network monitoring, 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 ensure 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.

## ▊ The application of topology

Internet

Server Zone
OA
E-mail
ERP

Router

Web Smart Switch

FR-S3028GMF-F

computer — Meeting Room

computer — Office

computer — recreation room

Smart LINK

## ● 24-Port Gigabit + 4-Port Gigabit SFP L2 Managed Ethernet Switch  FR-S3028GMF-F

## Features

➤ Comply with IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.3z, IEEE802.3ad standards

➤ Supports IEEE802.3x flow control for Full-duplex Mode and backpressure for Half-duplex Mode

➤ Supports MAC address auto-learning and auto-aging

➤ Store and forward mode operates

➤ Integrated High-Performance Cortex-A9 processor.

➤ Support low power consumption and energy saving (EEE), control the broadcast storm.

➤ LED indicators for monitoring power, link/activity

➤ Web-based Management Support

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

➤ Internal power adapter supply

## Hardware Specification

| Model | FR-S3028GMF-F |
| --- | --- |
| Chipset | BCM53547 |
| Standards | IEEE 802.3i，IEEE 802.3u，IEEE 802.3ab，IEEE802.3x，IEEE802.3z，IEEE802.3ad，IEEE802.1P，IEEE802.1Q |
| Network Media (Cable) | 10BASE-T: UTP category 3,4,5 cable (maximum 100m)<br>100BASE-Tx: UTP category 5,5e cable (maximum 100m)<br>1000BASE-T: UTP category 5e,6 cable (maximum 100m)<br>1000BASE-X:MMF,SMF |
| Interface | 24 x 10/100/1000Mbps Auto-Negotiation ports<br>4 x SFP ports<br>1 x RJ45 Console Port |
| Transfer Method | Store-and-Forward |
| Switching Capacity | 56G |
| MAC Address Learning | 16K |
| Packet Forwarding Rate | 41.67Mpps |
| Packet Buffer | 512KBytes |
| Jumbo Frame | 9KBytes |

● **24-Port Gigabit + 4-Port Gigabit SFP L2 Managed Ethernet Switch**  **FR-S3028GMF-F**

| Indicators | Per Device | Power: Green  SYS：Green |
|---|---|---|
| | Per Port | Link/Activity: 1000Mbps:Green   10/100Mbps:Orange |
| Power Supply | | 100~240VAC,50/60HZ,18W, internal power |
| Power Consumption | | Maximum: 15W(220V/50Hz) |
| Dimensions (W×D×H) | | 440*208*44mm (19' metal case) |
| Environment | | Operating Temperature: 0℃~45℃<br>Storage Temperature: -40℃~70℃<br>Operating Humidity: 10%~90% non-condensing<br>Storage humidity: 5%~90% non-condensing |

## Software Specification

| | |
|---|---|
| **management** | • Support Telnet, SSH remote management <br> • Support the SNMP <br> • Support cluster with cluster network management |
| **Port features** | • Support port isolation <br> • Support port loop detection <br> • Support the ULDP <br> • Support LLDP <br> • Support the Port Channel configuration <br> • Support LED shut - off <br> • Support Jumbo packet |
| **VLAN&MAC Address** | • Support for MAC/strategy/port/protocol/IP subnet VLAN <br> • Support Dot1q tunnel <br> • Support GVRP <br> • VLAN - translation <br> • Support support MAC address automatic learning and aging <br> • Support the source MAC address filtering |
| **STP** | • Support STP |
| **QoS** | • Support WRR, WDRR queue scheduling algorithm <br> • Support flexible QinQ operation |
| **Three layer forward and routing protocols** | • Support three layer forward <br> • Support the ARP configuration <br> • Support the static routing, OSPF, RIP configuration <br> • Support IPv4 and IPv6 routing |
| **DHCP** | • Support the DHCP relay <br> • Support the DHCP Server <br> • Support DHCP Snooping |
| **Multicast protocol** | • Support DCSCM configuration <br> • Support IGMP Snooping <br> • Support IPv6 multicast, MLD configuration |
| **Safety features** | • Support 802.1 x, the Radius authentication <br> • Support for AM <br> • Supports IPv6 security RA configuration <br> • Support the MAB configuration <br> • Support SSL <br> • Support for protection against Dos attacks <br> • Support ACL |
| **reliability** | • Support MRRP <br> • Support ULPP |
| **The network time** | • Support SNTP <br> • Support the NTP |
| **Traffic monitoring** | • Support port mirror <br> • Support the flow |