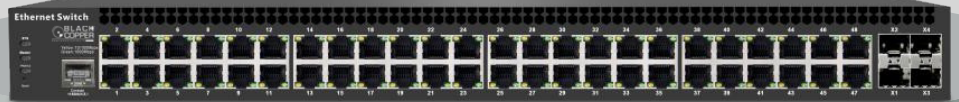# BC-48GSL3-F410G

## 10G Uplink 48-Port Gigabit L3 Managed Switch

48X1000Mbps RJ45 + 4X10G Mbps SFP + 2x console (1XRJ46 + 1Xmini USB)

## Overview

The BC-48GSL3-F410G layer 3 management switch is designed for small and medium-sized enterprises (SMEs), large enterprises and Internet service providers (ISPs). They have high performance, flexibility, fault tolerance and advanced software functions to achieve the maximum return on investment. The BC-48GSL3-F410G switch has 48 gigabit Ethernet RJ45 ports and 4 10 GbE SFP+ports, advanced security features and advanced quality of service (QoS). It can be used as a core, distributed or access layer switch, with high port density, switch stacking and manageability. It is an ideal choice for various commercial network applications.

# Features

### Port 6KV lightning protection

- The whole port supports 6KV lightning protection.
- Dual power redundancy design supports seamless switching in case of failure without manual intervention.

### Advanced hardware architecture design, powerful processing capability

- On the 1U box switch, it realizes the high-end port density of 48 Gigabit + 4 10 Gigabit and is equipped with Realtek's high-performance 800MHz MIPS-34Kc CPU, which can meet the application requirements of various complex scenarios and substantially increase the network data processing rate.

### Powerful business processing capabilities

Support 802.1Q VLAN, MAC VLAN, IP VLAN, users can flexibly divide VLAN as needed.
- Support QoS, 8 port queues, support port priority, 802.1P priority, DSCP priority, support SP, WRR, SP+WRR, WFQ priority scheduling algorithm.
- Support ACL, support L2 (Layer 2) ~ L4 (Layer 4) packet filtering function, provide flexible and secure access control policy.
- Support IGMP v1/v2/v3 Snooping, MLD v1/v2 Snooping to meet the requirements of multi-terminal HD video surveillance or video conference.
- Supports the fast leave mechanism and querier of Layer 2 multicast, supports Layer 2 IPv4 static multicast and Layer 2 IPv6 static multicast.
- Support RIP dynamic routing protocol, solve the routing problem after the small and medium-sized network is divided into subnets, and simplify the network configuration.
- Support static routing protocol, and manually configure routing entries to realize communication between different network segments.
- Support ARP configuration, so that hosts in different physical networks on the same network segment can communicate normally.

### Perfect security mechanism

- Complete security authentication mechanism: It supports IEEE 802.1x, Radius, Tacacs+, etc., and can provide users with a complete security authentication mechanism.
- The perfect loop detection mechanism can ensure the stable operation of the network for a long time.
- Provide port isolation in the same VLAN, and security features such as DHCP- Snooping, IP+MAC+port binding, etc., to further ensure user data security.
- Support ARP protection, IP source protection, DoS protection.
- Support to restrict user access based on port number, IP address and MAC address.

### Diverse reliability protection

- Support STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocols to eliminate Layer 2 loops and implement link backup.
- Supports loop protection, root bridge protection, TC protection, BPDU protection, and BPDU filtering.
- Support 50ms switching of optical ports.

### Flexible and convenient management and maintenance

- Support various management methods such as Console, Telnet, and SSH.
- Support WEB management (HTTP, HTTPS, SSL V3), which is simpler and more efficient, and is convenient for users to install and debug.
- Support file upload and download management in TFTP mode.
- Support SNMP V1/V2/V3 to facilitate device management through the network management platform.
- Support one-stop management and maintenance of Fengrunda Apollo cloud platform, which can realize all-round remote operation and maintenance such as automatic device discovery, network topology management, and remote configuration management of devices.

# Specifications

| Hardware Specifications | |
|---|---|
| **Network Interface** | • 48个10/100/1000Mbps RJ45 Port<br>• 4* 10G SFP+<br>• 1* Console port |
| **Network protocol** | • IEEE 802.3、IEEE 802.3i、IEEE 802.3u、IEEE 802.3ab、IEEE 802.3z、IEEE 802.3ad、IEEE 802.3x、IEEE 802.1p、IEEE 802.1q、IEEE 802.1d、IEEE 802.1s、IEEE 802.1w、 |
| **Performance Specification** | • Bandwidth：176Gbps<br>• Packet forwarding rate：130.9Mpps<br>• MAC addres：16K<br>• port cache：12Mb<br>• DDR memory：512MB<br>• Forwarding mode: store and forward |
| **LED indicator** | • 52 * 1000M Link/Act indicator<br>• 48 * 10/100M network port Link/ACT indicators<br>• 2 Power indicator<br>• 1 SYS indicator |
| **Power** | • Input：AC 100-240V/50-60Hz<br>• Dual power supply redundant input |
| **Dimensions (LxWxH)** | • 440mm×360mm×44mm |
| **Environmenal Specifications** | • Operating temperature：0°C~40°C<br>• Storage temperature：-40°C～70°C<br>• Working humidity：10%~ 90% RH non condensing<br>• Storage humidity：5%～90% RH non condensing |
| **Safety regulations** | • CE/ROHS/FCC |