BC-POE48PG10G-700W
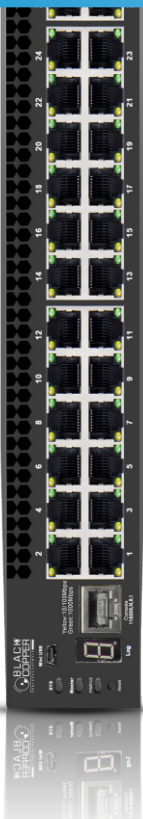
10 Gigabit uplink 48-port Gigabit Layer 3 managed switch

·48 Gigabit RJ45 network ports

·4 10G SFP+ Slots

·1 RJ45 Console Port

·Support the management of Apollo cloud.

Overview

The BC-POE48PG10G-700W adopts a new generation of high-performance hardware and software platform to provide flexible and cost-effective full Gigabit access and uplink ports. It supports Layer 3 routing protocols, complete security protection mechanisms, and complete ACL/QoS policies and enrichment. The VLAN function is easy to manage and maintain. It meets the user's easy-to-manage, high-se-curity, and low-cost networking requirements for network devices. It is suitable for network access, aggregation, and core application scenarios in campus, hotel, and enterprise campus.

Port 6kV lightning protection, dual power redundancy design

• the full 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 rack switch, the high port density of 48 Gigabit +4 10 Gigabit switch with high-performance ARM A55 CPU to meet the application requirements of various complex scenarios and greatly improve the network data processing speed.

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 DHCPSnooping, 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

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

• Supports various management methods such as Console, Telnet, and SSH.

• Support WEB network management (HTTP, HTTPS, SSL V3), which is simpler and more efficient, and is convenient for users to install and debug.

• Supports 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.

Hardware Specifications	
Network Interface	● 48个10/100/1000Mbps RJ45 port ● 4 10G DFP+ fiber port ● 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 Specifications	● bandwidth：176Gbps ●Packet forwarding rate：130.9Mpps ● MAC address：16K ● port cache：12Mb ● Forwarding mode: store and forward
LED indicator	● 52 1000M Link/Act indicator ● 48 10/100M网口 Link/Act indicator ● 1 Power indicator ● 1 SYS indicator
Power	● Input：AC 100-240V/50-60Hz ● Dual power redundant input
Dimensions (LxWxH):	● 440mm×320mm×44mm
Environmental Specifications	● Operating temperature：0°C~40°C ● Storage temperature：-40℃〜70℃ ● Working humidity：10%~ 90% RH non condensing ● Storage humidity：5%〜90% RH non condensing
Safety regulations	● CE/ROHS/FCC