

BC-IRPOEL2-8G-F2

10 Ports Gigabit Managed Industrial PoE Switch

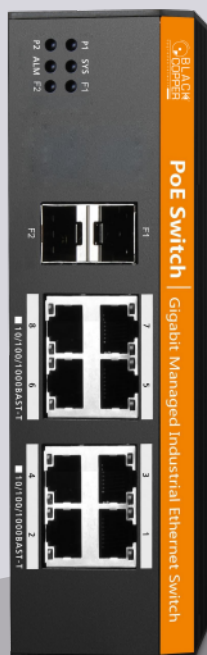
Layer 2 Managed Industrial PoE Switch

8X1000Mbps RJ45 +2X1000Mbps SFP+ Console Port: 1XRJ45



Overview

BC-IRPOEL2-8G-F2 is a 10-port gigabit managed industrial Ethernet switch with 8 gigabit PoE RJ45 ports and 2 gigabit optical SFP ports. Each POE port can provide up to 30W of power and can be used for the Powered Devices (PDs) which is compatible with IEEE802.3af/at. It is especially suitable for application scenarios which it is difficult to provide AC power and want to save the wiring costs. EMC Class 4 protection performance; corrugated high-strength aluminum profile shell, IP40 grade, low power consumption design, anti- vibration DIN-rail installation, operating temperature of -40°C -75°C, can work in harsh environments. BC-IR-POEL2-8G-F2 can also support various network management functions: RUN-Ring (self-healing time <10ms), RSTP, VLAN, QoS, SNMPv1/v2c/v3, IEEE802.1X, SSH/SSL, port mirror, port aggregation,etc. The BC-IRPOEL2-8G-F2 is a reliable solution for intelligent transportation, video surveillance and other harsh industrial environments by its rich redundancy, switching and security management features.



Features

Port 6KV lightning protection

- All ports support 6KV lightning protection, PSE short circuit protection, PoE overload, power supply over temperature protection, over voltage protection, surge current protection and other protection features.

AI DIP Switch

- AI Loop Protect: Using the fast loop network RUN-Ring technology, when the main link of network transmission fails, the system automatically switches to the backup link, and the fault recovery time can reach as fast as 10ms.
- AI PoE: Automatically detect the power receiving port, find a dead device, and restart the device after power off.
- AI VLAN: Isolate ports 1-4 from each other, which can effectively suppress network storms and improve network performance.
- AI Extend: 1-4 ports support long-distance power supply of 250 meters (recommended to use a super network cable above 5).

Powerful 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.

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 relay alarm output functions such as power failure, port disconnection, and PoE power supply abnormality.
- Industrial level 4 protection and anti-jamming capability

Perfect POE power supply function

- Support 802.3af/at standard, built-in high-power power supply, meet the needs of POE scenarios such as security monitoring, wireless coverage, and IP telephony.
- Support PoE power limit and set PoE port priority. When the power exceeds the limit, the power supply of the high-priority port will be given priority.
- Support setting PoE power supply time period, users can control the time period of PoE power supply according to their own needs.
- Support PoE chip status check, users can view the PoE chip temperature, output power and other parameters in real time through the web page.

Features

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.

Specifications

Hardware	
Network Interface	<ul style="list-style-type: none">• 10/100/1000Mbps RJ45 ports x8• 10/100/1000Mbps SFP ports x2• Console ports x1
Network Protocol	<ul style="list-style-type: none">• IEEE802.3、IEEE802.3i、IEEE802.3u、IEEE802.3ab、IEEE802.3z、IEEE802.3ad、IEEE802.3x、IEEE802.3af/at、IEEE802.1p、IEEE802.1q、IEEE802.1w、IEEE802.1d、IEEE802.1s
Performance	<ul style="list-style-type: none">• Bandwidth:20Gbps (Non-Block)• Throughput: 14.9Mpps• MAC table: 8K• Port cache: 4.1Mb• Forwarding model: Store and forward
LED Indicator	<ul style="list-style-type: none">• Power Indicator: P1,P2• System Indicator: SYS• Alarm Indicator: ALM• SFP Port Indicator: Link&Act F1~F2• RJ45 Port Indicator: POE&Link&Act 1~8
POE Pin	<ul style="list-style-type: none">• 1/2 (+) , 3/6(-);
Power Supply	<ul style="list-style-type: none">• Input voltage: 48-56V DC• Input port: Pluggable 5 pin terminals block, 5.08mm pitch (support dual DC power source backup, built-in overcurrent protection, support anti-reverse connection)• No-load power: 6W@52V DC• Full load power: 246W@52V DC (POE full load output)• Max. power for single port: 30W
Physical Parameter	<ul style="list-style-type: none">• Casing: Corrugated high-strength metal housing, IP40• Installation: DIN-Rail• Dimension (LxWxH) : 163mm×110mm×46.5mm
Environmental Condition	<ul style="list-style-type: none">• Operating Temperature: -40~75°C• Storage Temperature: -40~85°C• Operating Humidity: 5%~95% RH (non-condensing)• Storage Humidity: 0%~95% RH (non-condensing)
Certification	<ul style="list-style-type: none">• CE/ROHS/FCC