

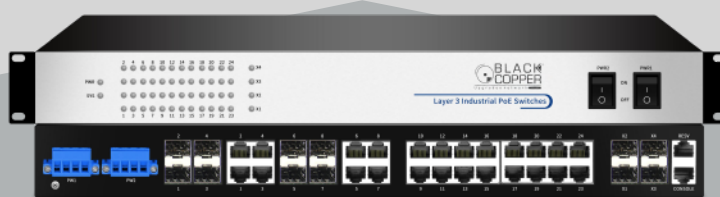
BC-IRL3-24G-F8-F410G

Full Gigabit Layer 2 Managed Non-PoE Switch

Industrial Layer 3 Managed NON-POE Switch

24GE+8SFP(Combo)+ 4*10G SFP uplink port + 1*console port

Port 9-12 support BT



Overview

BC-IRL3-24G-F8-F410G is a 36-port gigabit L3 managed industrial Ethernet switch with 24 gigabit RJ45 ports, 8 gigabit SFP ports(Combo), and 4 10G optical ports. Each 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, operating temperature of -40°C-75°C, can work in harsh environments. BC-IRL3-24G-F8-F410G can also support various network management functions: Layer 3 routing protocols, complete security protection mechanisms, RUN-Ring (self-healing time <10ms), RSTP, VLAN, QoS, SNMPv1/v2c/v3, IEEE802.1X, SSH/SSL, port mirror, port aggregation, etc. The BC-IRL3-24G-F8-F410G 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, power supply over temperature protection, over voltage protection, surge current protection and other protection features.

AI smart button

- AI Loop Protect: Using the RUN-Ring technology, when the main link of the network transmission fails, the system automatically switches to the backup link, and the fault recovery time can reach as fast as 10ms.
- AI PoE: Detection of PD port and reboot the device automatically when device crash.
- AI VLAN: Isolating ports 1-16 from each other, so that can suppress network storms effectively and improve network performance.
- AI Extend: 1-16 ports support 250 meters long-distance power supply (CAT 5e network cable is suggested).

Powerful application 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.

Full security mechanism

- Completed security authentication mechanism: It supports IEEE 802.1x, Radius, Tacacs+, etc.
- The loop detection mechanism can ensure the stable operation of the network for a long time.
- High security features such as port isolation in VLAN, DHCP-Snooping and IP+MAC+port binding, etc., to further ensure user data security.
- Support multi protections like ARP, IP source and DoS.
- Support declining user access by the port numbers, 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

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">• 24-Port 10/100/1000Mbps RJ45• 8-Port 10/100/1000Mbps SFP• 4-Port 10 gigabit SFP+
	<ul style="list-style-type: none">• 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">• Switching capacity:128Gbps (Non-Block)• Forwarding ratet: 95.2Mpps• Packet buffer: 12Mb• 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
POE Pin	<ul style="list-style-type: none">• 1/2 (+) , 3/6(-);
Power Supply	<ul style="list-style-type: none">• Input voltage: 12-56V DC / 100-240V/50-60Hz AC• 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: 486W@52V DC• 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×130mm×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