

# IRS1808F4-BP-8P

8 Ports Gigabit Industrial Layer 2 Bypass PoE Switch with 4\*1G SFP and 4\* Duplex LC(Bypass) Ports



## Product Description:

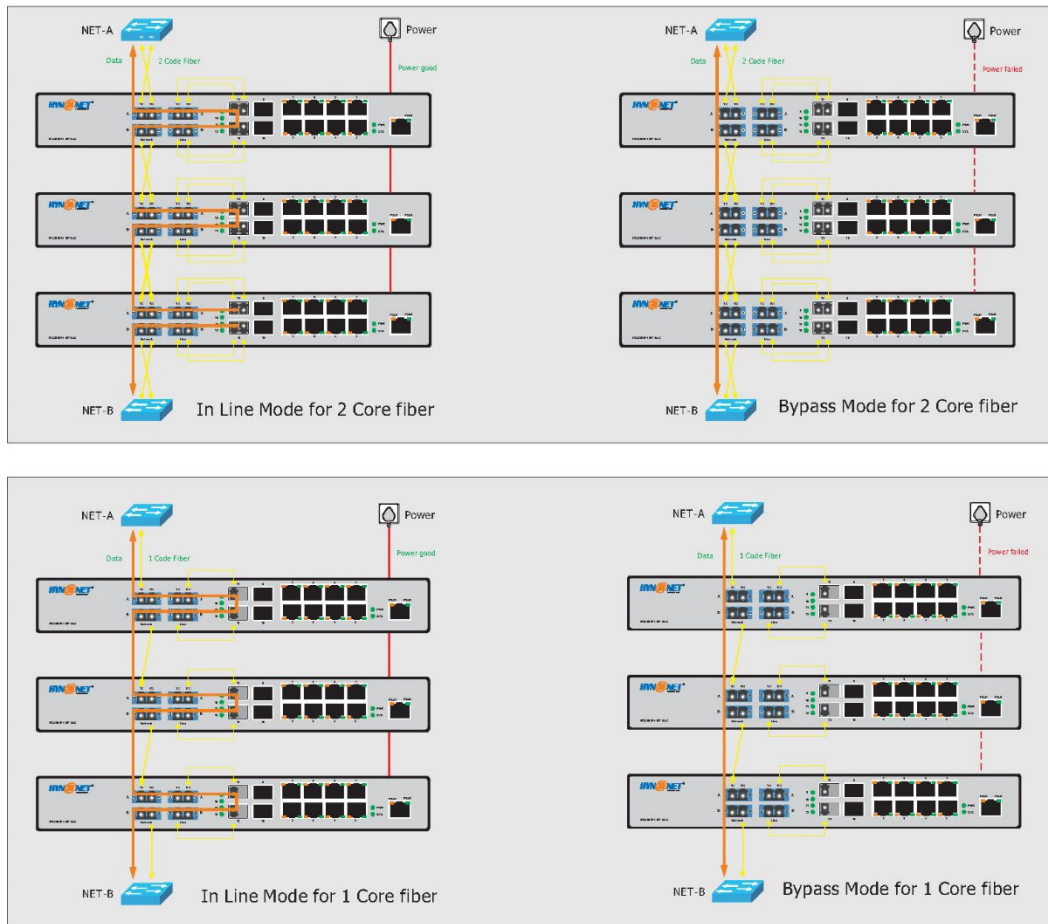
The IRS1808F4-BP-8P is an industrial-grade **8-port Gigabit Layer 2 fiber PoE switch** engineered for extreme reliability in harsh environments. With **4 duplex LC fiber ports** and an **automatic optical bypass function**, it guarantees **zero downtime**—even during power failures—ensuring continuous operation for networks where failure is not an option.

## Key Features & Benefits:

- ✓ **Industrial Rugged Design** – Built to withstand extreme temperatures, vibrations, and EMI interference for 24/7 operation in demanding environments.
- ✓ **Instant Failover Protection** – **Auto-bypass technology** reroutes traffic within milliseconds during power loss, eliminating network disruption.
- ✓ **High-Power PoE+ Support** – IEEE 802.3af/at compliant, delivering **up to 30W per port** to power IP cameras, wireless APs, and other devices.
- ✓ **Layer 2 Managed Switching** – Supports **VLAN, QoS, IGMP Snooping, and port-based security** for optimized traffic control.
- ✓ **Fiber & Copper Flexibility** – 4x 1000BASE-X SFP slots (LC duplex) + 8x 10/100/1000BASE-T RJ45 ports for versatile connectivity.

## Applications

- Industrial Automation & SCADA Systems
- Military & Defense Communication Networks
- Traffic Monitoring & Intelligent Transportation Systems (ITS)
- Surveillance & Security (IP Cameras, NVRs)
- Emergency & First Responder Networks



## Product Specifications:

| Attributes            |                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|
| Networking Interfaces | 8 x 10/100/1000Mbps RJ45 Ports                                                                                      |
|                       | 4 x 1Gbps SFP Slots                                                                                                 |
|                       | 4 x Duplex LC (Support Bypass)                                                                                      |
| Management Interface  | Console                                                                                                             |
| LED Indicators        | Power, Link/Act,PoE                                                                                                 |
| Optical path          |                                                                                                                     |
| Optic Interfaces      | LC                                                                                                                  |
| Optic Mode            | Single Mode                                                                                                         |
| Optic Wavelength      | 1260~1650nm                                                                                                         |
| Bypass function       | Support auto-detect power supply interruption so that switch to bypass mode to stable network operation is possible |
| Bypass recovery time  | Less than 20ms.                                                                                                     |
| Performance           |                                                                                                                     |
| Switching Capacity    | 24 Gbps                                                                                                             |
| Forwarding Capacity   | 17.9 Mpps                                                                                                           |
| Forwarding Mode       | Store and Forward                                                                                                   |

|                            |                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| Packet Buffer Memory       | 12 Mbit                                                                                                              |
| RAM for CPU                | 2 Gbit                                                                                                               |
| Flash Memory               | 512 Mbit                                                                                                             |
| MAC Address Table          | 16K                                                                                                                  |
| Max. Jumbo Frame size      | 16KB                                                                                                                 |
| ACL Table                  | 1K                                                                                                                   |
| VLAN Quantity              | 4K                                                                                                                   |
| VLAN Interface             | 512                                                                                                                  |
| Multicast groups           | 512                                                                                                                  |
| Routing Host               | 512                                                                                                                  |
| Routing Entries            | 64                                                                                                                   |
| Port Queues                | 8                                                                                                                    |
| <b>Physical</b>            |                                                                                                                      |
| Dimensions                 | 330 x 200 x 44 mm                                                                                                    |
| Weight                     | 3.5KG                                                                                                                |
| Operating Temperature      | -40 to 70°C                                                                                                          |
| Storage Temperature        | -40 to 80°C                                                                                                          |
| Operating Humidity         | 5 to 90% Noncondensing                                                                                               |
| Power Method               | 100-240VAC, 50/60Hz                                                                                                  |
| Max. Power Consumption     | 15W                                                                                                                  |
| EMC Safety                 | FCC, CE, RoHS                                                                                                        |
| Reliability                | Build-in 270W power supply or DC Power Input                                                                         |
| <b>Power over Ethernet</b> |                                                                                                                      |
| PoE Interfaces             | Ports 1-8                                                                                                            |
| PoE Standard               | IEEE802.3af, IEEE802.3at                                                                                             |
| Max. PoE Wattage per Port  | 30W                                                                                                                  |
| PoE Voltage                | 52VDC (Depend on Power Adapter)                                                                                      |
| PoE Pin Assignment         | V- (RJ45 Pin1,2), V+ (RJ45 Pin 3,6)                                                                                  |
| PoE Management             | Port-base PoE status view and control                                                                                |
| <b>Port Configuration</b>  |                                                                                                                      |
| Enable and Disable         | Support control enable and disable                                                                                   |
| Auto-Negotiation           | Support force port mode and speed                                                                                    |
| Flow Control               | Support IEEE802.3x full-duplex<br>Support half-duplex backpressure                                                   |
| Storm Control              | Support broadcast, multicast and DLF package rate limit                                                              |
| Port Mirroring             | Support many to one mirroring                                                                                        |
| Rate Limit                 | Support Port input and output rate limit                                                                             |
| Link Aggregation           | Support manual Link Aggregation<br>Support LACP<br>Up to 8 maximum aggregation groups, each containing up to 8 ports |
| Aggregation Strategy       | Source MAC / Destination MAC / Source Destination MAC<br>Source IP / Destination IP / Source Destination IP          |
| Port Protection            | Each port can be configured into isolated protected port from each other                                             |
| <b>MAC Configuration</b>   |                                                                                                                      |

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| MAC Address Table Management     | Support                                                     |
| Transfer Mode                    | Support IVL transfer mode                                   |
| Static MAC Address               | Support                                                     |
| MAC Binding                      | Support                                                     |
| MAC Address Filter               | Support                                                     |
| MAC Quantity Limitation          | Support limit the number of MAC-addresses Learning per port |
| <b>VLAN Configuration</b>        |                                                             |
| VLAN Based on 802.1Q             | Support                                                     |
| MAC-Based VLAN                   | Support                                                     |
| IP-Based VLAN                    | Support                                                     |
| Protocol-Based VLAN              | Support                                                     |
| Voice VLAN                       | Support                                                     |
| Guest VLAN                       | Support                                                     |
| Private VLAN                     | Support                                                     |
| VLAN Mapping                     | Support 1:1 mapping                                         |
| Double VLAN Markup               | Support basic QinQ                                          |
| <b>Reliability Protocol</b>      |                                                             |
| Spanning Tree                    | Support STP/RSTP/MSTP                                       |
| BPDU Guard                       | Support                                                     |
| BPDU Filter                      | Support                                                     |
| Port Loop Detection              | Support                                                     |
| EAPS Protocol                    | Support RFC3619                                             |
| ERPS Protocol                    | Support G.8032/Y.1344                                       |
| LLDP Protocol                    | Support LLDP and LLDP-MED                                   |
| UDLD Protocol                    | Totally compatible with UDLD protocol of CISCO              |
| <b>Host Routing</b>              |                                                             |
| Static ARP                       | Support                                                     |
| Static Routing                   | Support                                                     |
| <b>Multicast</b>                 |                                                             |
| Static Multicast MAC Address     | Support                                                     |
| IGMP SNOOPING                    | Support                                                     |
| MVR                              | Support                                                     |
| GMRP                             | Support                                                     |
| <b>Access Control List (ACL)</b> |                                                             |
| Based on Standard IP             | Support                                                     |
| Based on Extend IP               | Support                                                     |
| Based on MAC IP                  | Support                                                     |
| Based on MAC ARP                 | Support                                                     |
| Based on time                    | Support                                                     |
| Port Filtering                   | Support                                                     |
| <b>Quality of Service (QoS)</b>  |                                                             |
| Scheduling Mode                  | Support WRR, SP, WFQ                                        |
| Sorting Based on Port            | Support                                                     |
| Sorting Based on 802.1p          | Support                                                     |

|                                 |                                                                                                                                                                                                                |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sorting Based on DSCP(DiffServ) | Support                                                                                                                                                                                                        |
| Sorting Based on ACL Data Flow  | Support                                                                                                                                                                                                        |
| QoS Strategy                    | Support packet mapped to the corresponding output queue<br>Support to modify the packet's COS and DSCP sign<br>Support limit of data flow<br>Support statistics of data flow<br>Support mirroring of data flow |
| <b>Security</b>                 |                                                                                                                                                                                                                |
| Administrative Security         | Support start and end TELNET, WEB and SNMP serve<br>Support TELNET, WEB and SNMP serve binding with Standard IP ACL<br>Support control the number of user for TELNET                                           |
| CPU Protect                     | Switch self-security protect, forbid flow attack                                                                                                                                                               |
| IP-MAC Address Binding          | Support binding between static configuration IP, MAC and Port                                                                                                                                                  |
| AAA                             | Support 802.1x protocol<br>Support RADIUS protocol<br>Support RADIUS server authentication authorization and bill<br>Support MAC-based 802.1X authentication.<br>Support 802.1x guest VLAN                     |
| DHCP SNOOPING                   | Support dynamic ARP binding to prevent ARP spoofing<br>Support dynamic IP, MAC port binding<br>Support stationary port connect to DHCP server, to prevent privately connect to DHCP sever                      |
| Prevent ARP Spoofing            | Support manual configure ACL rule based on MAC ARP prevent ARP spoofing<br>Support DHCP SNOOPING function, switch dynamically binding ARP and port, when the DHCP get IP address , to prevent ARP spoofing     |
| <b>IPv6</b>                     |                                                                                                                                                                                                                |
| ICMPv6                          | Support                                                                                                                                                                                                        |
| IPv6 Neighbor Discovery         | Support                                                                                                                                                                                                        |
| MLD Snooping                    | Support                                                                                                                                                                                                        |
| IPv6 Telnet                     | Support                                                                                                                                                                                                        |
| <b>Management Feature</b>       |                                                                                                                                                                                                                |
| CLI Management                  | Support serial port management<br>Support TELNET management<br>Support SSH management                                                                                                                          |
| WEB Management                  | Support                                                                                                                                                                                                        |
| SNMP Management                 | Support SNMP protocol<br>Support SNMP TRAP<br>Support standard and private MIB                                                                                                                                 |
| User management                 | Support multi-user management                                                                                                                                                                                  |
| Show CPU Utilization            | Support                                                                                                                                                                                                        |
| Show RAM Utilization            | Support                                                                                                                                                                                                        |
| TACACS+                         | Support TACACS+ server remote user name and password authentication<br>Support PAP and CHAP password encryption<br>Support TACACS+ server command authorization                                                |
| Log Management                  | Support                                                                                                                                                                                                        |
| RMON                            | Support RMON 1,2,3,9 group                                                                                                                                                                                     |

|                                        |                                                                                                                                                                         |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cluster Management</b>              | Support neighbor discovery protocol<br>Support topology discovery protocol<br>Support manual and automated join cluster group<br>Support cluster unification management |
| <b>OAM</b>                             | Support 802.3ah<br>Support 802.1ag                                                                                                                                      |
| <b>DHCP Server</b>                     | Support serving IP addresses for multiple DHCP pools/scopes                                                                                                             |
| <b>DHCP Client</b>                     | Support                                                                                                                                                                 |
| <b>Configuration Download / Upload</b> | Support                                                                                                                                                                 |
| <b>Upgrade Firmware</b>                | Support                                                                                                                                                                 |
| <b>Timer Management</b>                | Support local timer management<br>Support SNTP protocol get clock                                                                                                       |
| <b>Debugging Tools</b>                 |                                                                                                                                                                         |
| <b>PING</b>                            | Support                                                                                                                                                                 |
| <b>TRACEROUTE</b>                      | Support                                                                                                                                                                 |
| <b>TELNET Client</b>                   | Support                                                                                                                                                                 |
| <b>Package List</b>                    |                                                                                                                                                                         |
| <b>PoE Switch</b>                      | 1pcs                                                                                                                                                                    |
| <b>User Manual</b>                     | 1pcs                                                                                                                                                                    |
| <b>Power Cord</b>                      | 1pcs                                                                                                                                                                    |
| <b>DB9 to RJ45 Cable</b>               | 1pcs                                                                                                                                                                    |
| <b>Rack Mount Kit</b>                  | 2pcs                                                                                                                                                                    |
| <b>Rubber Feet</b>                     | 4pcs                                                                                                                                                                    |

## Order Information:

| Switch Models               |                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>IRS3008F4-BP-8P-150W</b> | 8 Ports Gigabit Industrial PoE Switch with 4*1G SFP and 4* Duplex LC(Bypass) Ports, 150W Internal Power Supply |
| <b>IRS3008F4-BP-8P-330W</b> | 8 Ports Gigabit Industrial PoE Switch with 4*1G SFP and 4* Duplex LC(Bypass) Ports, 330W Internal Power Supply |
| <b>IRS3008F4-BP-8P-DC</b>   | 8 Ports Gigabit Industrial PoE Switch with 4*1G SFP and 4* Duplex LC(Bypass) Ports, DC Power Input             |