

IXP-2871 28-Port L2 Plus Managed PoE Industrial Switch, 4 x 1/2.5/10GbE SFP+, 24 PoE Outputs, 370W, 802.3AF/AT/BT PoE, 19" Rack Mount, -40°C to 80°C

Product Images



Short Description

- 24 10/100/1000Base-T RJ45 PoE ports and 4 1G/2.5G/10GBase-X SFP+ slots
- Total PoE power budget: 370W, up to 90W per port (Ports 1~2 90W per port, Ports 3~24 30W per port)
- IEEE 802.3af/at/bt PoE compliant to simplify deployment and installation
- Ensures uninterrupted operation with redundant DC power supply, advanced surge

protection (6KV), and ESD protection (Air-15kV, Contact-8kV)

- Delivers high availability through G.8032 ERPS protocol with <20ms recovery time
- Supports advanced Layer 2 features including VLAN, STP/RSTP/MSTP, Link Aggregation, QoS, and IGMP Snooping for optimized network performance
- Offers robust management options through Web, SNMP, CLI, Telnet, and SSH interfaces
- Provides enhanced security with 802.1X authentication, port isolation, and ACL
- Enables advanced network routing with IPv4/IPv6 static routing and DHCP server
- Designed for harsh environments with fanless IP40 rack-mount enclosure and wide operating temperature range (-40°C to +80°C)

Description

The IXP-2871 is a high-performance industrial Ethernet switch with 24 PoE ports and 4 SFP+ slots. It delivers up to 370W of PoE power, with Ports 1-2 supporting up to 90W and Ports 3-24 supporting up to 30W, providing flexibility in power allocation for various powered devices. Designed to excel in industrial automation, it offers comprehensive Layer 2 management and rapid failover capabilities. This switch ensures uninterrupted operations with its ERPS redundant network, boasting a sub-20ms recovery time. Its wide operating temperature range, DC Redundant power supply, and fanless design ensure uninterrupted operation in harsh industrial conditions. Ideal for large-scale industrial networks.

Additional Information

Harmonized System (HS) code	851762
Customs product code (TARIC)	8517620000
Power Redundancy	Dual Power Input
Color	Black
EAN	4015867240694
Model Number	IXP-2871
Features	<p>Port aggregation • Support GE port aggregation • Support 2.5GE aggregation • Support 10GE aggregation • Support static aggregation • Support LACP dynamic aggregation • Up to 64 aggregation groups and up to 8 ports per group</p> <p>Port features • Support IEEE802.3x flow control • Support interface counters • Support port isolation • Port mirroring (One-to-One, Many-to-One) • Support loop detection(Port-based; VLAN-based) • Support broadcast storm suppression(broadcast; unknown multicast; unknown unicast) Mac-address table management • Support static Mac-address management • Support dynamic Mac-address Management • Support filtering Mac-address • Support MAC limit based on port and VLAN • Support MAC flapping based on port and VLAN</p> <p>VLAN • Support access mode • Support trunk mode • Support hybrid mode VLAN classification • Mac Based VLAN • IP Based VLAN • Protocol Based VLAN QinQ • Port-based QinQ • VLAN-based QinQ (VLAN-stacking; VLAN-mapping) • Flow-based QinQ GVRP • Normal mode • Fixed mode • Forbidden mode LLDP • LLDP (Link Layer Discovery Protocol) Ring network protocol • Support IEEE802.1D-STP • Support IEEE802.1W-RSTP • Support IEEE802.1S-MSTP • Support G.8032 ERPS protocol, single ring, sub Ring and major ring Recovery time ≤20ms L2 Multicast • Support IGMP snooping • Support group address Layer 3 functions • ARP table aging • DHCP server • IPv4 / IPv6 static routing</p>

Management	<ul style="list-style-type: none"> User Management Support password protection Support user authorization management SNMP Supporting SNMP V1/V2C/V3 version Web Management Support HTTP V1.1 Support HTTPS CLI management Console/Telnet command line management RMON Support RMON (Remote Monitoring) alarm Fault Detection Ping/Traceroute Dying gasp Support optical transceiver DDM function Cable detection Support copper port cable detection PoE management Support 802.3af/802.3at/802.3bt Support PD watchdog Support PoE priority management Support Max PoE power configuration for each port Support alarm threshold configuration Support reserved power configuration NTP Network Time Protocol Syslog/Debug Syslog/Debug Syslog send to three servers Configuration import/export Support FTP/TFTP remote import/export Support USB import/export Dual partition management Support dual partition switching
Security	<ul style="list-style-type: none"> ACL IP Standard ACL MAC extend ACL IP extend ACL IPv6 ACL QoS Support QoS Class, remarking Support SP, WRR queue scheduling Ingress port-based rate-limit Egress port-based rate-limit Support policy-based QoS 802.1x Port access control Mac-address access control RADIUS server Port-security IP source guard IP Port/MAC binding ARP-check Support ARP-check and ARP packet filtering for illegal users Access control Support Telnet/SSH/HTTP/HTTPS user access control
Grade	Industrial
PoE Supported	Yes
Manageable	Yes
Fanless	Yes
PoE Power Budget	Total 370.00
Approval and Compliance	<ul style="list-style-type: none"> CE UKCA FCC Part 18, Subpart B Class B RoHS
Operating humidity	10% RH ~ 90% RH
Operating temperature	-40°C ~ 80°C
Storage humidity	5% RH ~ 95% RH
Storage temperature	-40°C ~ 85°C

Package Contents	<ul style="list-style-type: none"> • IXP-2871 • Power Terminal Block • Console Cable • 19" Rack Mount Kit • Quick Installation Guide • Declaration of Conformity
Switching capacity	128 Gbps
Product weight (kg)	4.14
Dimensions (W x D x H)	440 x 280 x 45 mm
Data Rate	10Gbps, 1Gbps
Power supply included	No
Power input	<ul style="list-style-type: none"> • Single power input: PoE power budget ≤240W (-40°C~+ 70°C) • Dual power input: PoE power budget ≤370W (-40°C~+ 60°C) • The DC voltage for dual power inputs must be matched
Power consumption	<ul style="list-style-type: none"> • 32W (full loading on) • 402W (PoE full loading on)
MTBF	200,000 hours
Packet forwarding rate	190.4 Mpps
Port Configuration	4x 1G/2.5G/10GBase-X SFP+ slots, 24x 10/100/1000Base-T PoE RJ45 ports (Ports 1~2 90W per port, Ports 3~24 30W per port)
IP grade	IP40
Standard	<ul style="list-style-type: none"> • IEEE 802.3 10Base-T Ethernet • IEEE 802.3u 100Base-TX Ethernet • IEEE 802.3ab 1000Base-T Ethernet • IEEE 802.3z 1000Base-X Ethernet • IEEE802.3x Flow Control and Back Pressure • IEEE 802.1D MAC Bridges (STP) • IEEE 802.1d Standard Spanning Tree Protocol (RSTP) • IEEE 802.1s Multiple Spanning Tree (MSTP) • IEEE 802.1Q VLAN • ITU-T G.8032 ERPS • IEEE 802.1X Port Authentication Network Control • IEEE 802.1ab LLDP • IEEE 802.3ad LACP • IEEE802.3af PoE • IEEE802.3at PoE+ • IEEE 802.3bt PoE++
Mount	19" rack mount, Desk mount
MAC address table	16 K
Jumbo frame (KB)	10
Indicators	<ul style="list-style-type: none"> • Power indicator • System status indicator • USB status indicator • Fault status indicator • Copper ports indicators • PoE status indicators • Fiber ports indicators
Packet buffer	12 Mbit

