

MPN: ELECTRA-IM16-1GB

16-port Gigabit Industrial Managed PoE Switch, 2 *1000Mbps SFP Uplink ports 1 * Console port

The Ernitec 16-port 1000Mbps Industrial Managed L2+ PoE Switch is designed for high-performance networking in industrial environments. Here are some key features:

Gigabit Ethernet Ports: 16 10/100/1000 Mbps PoE ports for fast data transfer.

PoE Support: Provides Power over Ethernet (PoE) to power devices like IP cameras and wireless access points directly through the Ethernet cables.

Advanced Management: Supports Layer 2+management features, including VLAN, QoS, and IGMP snooping for efficient network management.

Rugged Design: Built to withstand harsh conditions with a robust housing and wide operating temperature range.

Flexible Network Expansion: Includes 2 Gigabit SFP uplink ports for easy network expansion.

This switch is ideal for applications requiring reliable and high-performance network connectivity in challenging environments.

The device supports IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3z/ab, IEEE802.1Q, IEEE802.1p, and IEEE802.1d/w standards.

It features PoE power management and a PoE Watchdog based on data flow detection. It supports IEEE802.3af (15.4W), IEEE802.3at (30W), and IEEE802.3bt (90W) standards.

Ports 1-2 are capable of supplying 90W of power.

The device supports SNMP v1/v2/v3 for simple network management. It also supports IGMP Snooping, static multicast filtering, and MLD Snooping.

For enhanced network security, it supports 802.1x port authentication and AAA authentication.

Management is supported via web, Telnet, CLI, and SSH. The device has an IP40 protection level, a high-strength shell, and DIN35 rail installation.

It is designed to industrial grade 4 standards, with an operating temperature range from -40 to 75°C. Additionally, it supports redundant power supply connections and protection against reverse connections.

- Support IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3z /ab, IEEE802.1Q, IEEE802.1p, IEEE802.1d/w
- Support PoE power management and PoE Watchdog based on data flow detection
- Support IEEE802.3af (15.4W) and IEEE802.3at (30W), and IEEE802.3bt (90W)
- Ports 1-2 support BT90W power supply
- Support SNMP v1/v2/v3 Simple Network Management Protocol
- Support 802.1x port authentication and AAA authentication to enhance network security



- Support web, Telnet, CLI, SSH management
- IP40 protection level, high-strength shell, DIN35 rail installation
- Industrial grade 4-level design, operating temperature from -40~75°C
- 5 Year Warranty

Specifications

Certificates	NDAA Compliance	Yes
Data transmission	Forwarding rate	26.78 Mpps
	Jumbo frames support	Yes
	MAC address table	8000 entries
	Static route	Yes
	Store-and-forward	Yes
	Switching capacity	36 Gbit/s
Design	Housing material	Metal
	LED indicators	PoE, Power, System
	On/off switch	Yes
	Reset button	Yes
	RoHS compliance	Yes
Management features	Switch layer	L2/L2+
	Switch type	Managed
	Web-based management	Yes
Network	Flow control support	Yes
	IP routing	Yes
	Networking standards	IEEE 802.3U, IEEE 802.3ab, IEEE 802.3, IEEE 802.3x, IEEE 802.3az, IEEE 802.1D, IEEE 802.1w, IEEE 802.1X
	Number of VLANs	4000
	Port mirroring	Yes
	VLAN support	Yes
Operational conditions	Operating temperature (T-T)	-40-70 °C
Other features	Material	Metal
	Power LED	Yes
Packaging data	Manual	Yes
	Mounting brackets included	Yes
Performance	Fanless	Yes
	Firmware upgradeable	Yes
	Telnet	Yes
Ports & interfaces	Basic switching RJ-45 Ethernet ports type	Gigabit Ethernet (10/100/1000)
	Console port	RJ-45

Ports & interfaces	Fiber uplink ports quantity	2
	SFP/SFP+ slots quantity	2
	Uplink ports quantity	2
Power	Surge protection	Yes
	Surge protection voltage	6 kV
Power over Ethernet (PoE)	Power over Ethernet (PoE)	Yes
	Power over Ethernet (PoE) ports quantity	16
	Power over Ethernet (PoE) power per port	15.4 W
Technical details	Warranty period	5 year(s)
Vendor information	Brand Name	Ernitec
	Homepage	http://www.ernitec.com
	Warranty	5 Year(s)