Technical specifications

Port Configuration	Enable and Disable	Quality of Service (QOS)	Scheduling Mode
	Auto-Negotiation		Sorting Based on Port
	Flow Control		Sorting Based on 802.1p
	Storm Control		Sorting Based on DSCP
	Port Mirroring	DHCP	DHCP Client
	Rate Limit		DHCP Relay
	Link Aggregation		DHCP Server
	Aggregation Strategy		DHCP option 82
	Port Protection		DHCP Snooping
MAC Configuration	MAC Address Table Management	Security	Administrative Security
	Transfer Mode		CPU Protect
	Static MAC Address		IP-MAC Address Binding
	MAC Binding		AAA
	MAC Address Filter		DHCP SNOOPING
	MAC Quantity Limitation		Prevent ARP Spoofing
VLAN Configuration	VLAN Based on 802.1Q	Management Feature	CLI Management
	MAC-Based VLAN		WEB Management
	IP-Based VLAN		SNMP Management
	Protocol-Based VLAN		User management
	Guest VLAN		Show CPU Utilization
	Private VLAN		Show RAM Utilization
Reliability Protocol	Spanning Tree		Log Management
	BPDU Guard		Configuration
	BPDU Filter		Download / Upload
	Port Loop Detection		Upgrade Firmware
	EAPS Protocol		Timer Management
	LLDP Protocol	Debugging Tools	PING
	UDLD Protocol		TRACEROUTE
	ERPS Protocol		TELNET Client
L3 Routing	Static ARP & Dynamic ARP		
	Static Routing		
	Policy Routing		
	RIP		
	OSPF		
	VRRP		
Access Control List (ACL)	Based on Standard IP		
	Based on Extend IP		
	Based on MAC IP		
	Based on MAC ARP		
	Based on time		
	Port Filtering		
Casing	Metal		
Installation	DIN-Rail or Wall mounting		

nets

Industrial PoE Switch

IS3-8GU4GS-480

User's Manual

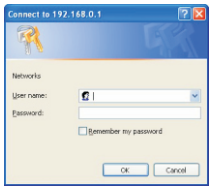
www.deponet.com.tr

Login Web-based Management

1. To access the GUI of the switch, open a browser and type the default management address http://192.168.0.1 in the address field of the browser, then press the Enter key.

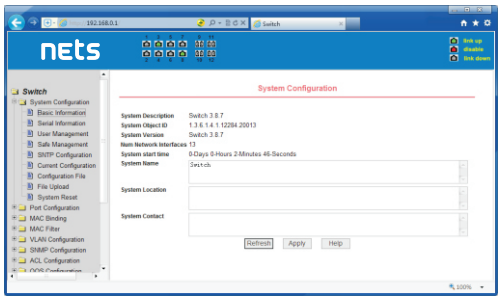
Note:

To log in to the switch, the IP address of your PC should be set in the same subnet as that of the switch. The IP address is 192.168.0.x ("x" is any number from 2 to 254). Subnet Mask is 255.255.255.0. For details, please refer to Appendix B in the User Guide on the resource CD.



2. Enter **admin** for both the User Name and Password in the lower case letters. Then click the Login button or press the Enter key.

3. After a successful login, the main page will appear as follows, and you can click the menu on the left side to configure the corresponding functions.

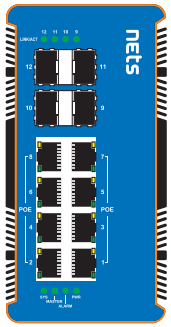


2 Products introduction

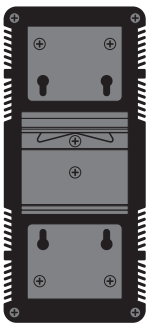
Thanks for purchasing the Industrial PoE switch products.

The IS3-8GU4GS-480 is a high performance L3 Managed Ethernet Switch with 8 x10/100/1000TX RJ45 Copper ports with 8 IEEE802.3bt Type-3 PoE and 4 x1000M SFP Ports, which meets the high reliability requirements demanded by industrial rolling stock applications. It provides L2/L3 wire speed and advanced security function for network aggregation deployment. It delivers enhanced ring recovery less than 20ms in single ring. For more usage flexibilities, It supports wide operating temperature from -40~75°C

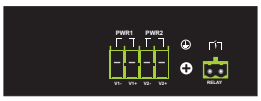
Front panel



Rear panel



TOP Panel



V1+ DC Power Input the positive electrode
V2+ DC Power Input the positive electrode
V1- DC Power input negative electrode
V2- DC Power input negative electrode
⏚ Grounding
RELAY：Alarm contacts for the loss of power
Power failure alarm contact definition: power outages, the contact is closed, the power contacts are disconnected.

The front panel consists of LED indications and ports.
The rear panel can be mounted with two lugs for wall mounting, and a rail type component for switchboard mounting.

LED Indicator	Color	Status	Description
PWR	Green(Yellow)	Lights	After the switch connected to the power, DC power supply input for the V+, V-contacts
		Extinguish	Check the AC power connector is loose, power cord is intact
Link/Act	Yellow	Lights	The switch network network device interface is properly connected to a port, the corresponding indicator light
		Flashing	Port if the data stream, the corresponding port Flashing
		Extinguish	Check the connection of the network cable is intact, the joint is loose
Link/Act (SFP)	Green	Lights	When the Gigabit optical modules connected to a port, the corresponding indicator light
		Flashing	Port if the data stream, the corresponding port Flashing
		Extinguish	Non-Gigabit optical modules device connected to the port
MASTER	Green	Flashing	Only if when switch enable EAPS function, and be configure master mode
POE	Green	Lights	When there is compliance IEEE802.3af & at the PD device access time
		Extinguish	Non- PD devices or non- compliant equipment

1 About guide

This guide provides instructions to install the Industrial PoE switch.

Note: The model you have purchased may appear slightly different from the illustrations shown in the document. Refer to the Product Instruction and Technical Specification sections for detailed information about your switch, its components, network connections, and technical specifications.

This guide mainly divided into 4 parts:

1. About guide: Terminology/Usage
2. Product introduction: functional overview and introduction of panel definitions
3. Hardware installation: step by step hardware installation process
4. Technical specifications

Terminology / Usage

In this guide, the term "Switch" (first letter capitalized) refers to the Smart Switch, and "switch" (first letter lower case) refers to other Ethernet switches. Some technologies refer to terms "switch", "bridge" and "switching hubs" interchangeably, and both are commonly accepted for Ethernet switches.

Note: indicates important information that helps a better use of the device.

Warning: indicates potential property damage or personal injury.

Copyright and trademark

4 Technical specifications

Project	Describe		
Attributes			
Networking Interfaces	8 x 10/100/1000 Mbps PoE RJ45 Ethernet Ports 4 x 1Gbps SFP Ethernet Ports		
Management Interface	Console		
LED Indicators	Power, Link/Act, PoE		
Performance			
Switching Capacity	24 Gbps	ACL Table	512
Forwarding Capacity	17.9 Mpps	VLAN Quantity	4K
Forwarding Mode	Store and Forward	VLAN Interface	32
Packet Buffer Memory	12 Mbit	Routing Host	512
RAM for CPU	2 Gbit	Routing Entries	64
Flash Memory	512 Mbit	Port Queues	8
MAC Address Table	16K	PoE Budget	480W
Max. Jumbo Frame size	16K		
Power over Ethernet			
PoE Interfaces	Ports 1-8		
PoE Standard	IEEE802.3af, IEEE802.3at, IEEE802.3bt		
Max. PoE Wattage per Port	60W		
PoE Voltage	Depend on Power Input		
PoE Pin Assignment	V- (RJ45 Pin1,2,7,8), V+ (RJ45 Pin 3,4,5,6)		
PoE Management	Port-base PoE status view and control, PoE Schedule, PD Alive Auto Check		
Physical			
Dimensions	147 x 143 x 75 mm		
Operating Temperature	-40 to 75°C		
Storage Temperature	-40 to 85°C		
Operating Humidity	5 to 95% Noncondensing		
Power Method	44~57VDC		
Max. Power Consumption	Including PoE Output: 490W Excluding PoE Output: 10W		
EMC Safety	FCC, CE, RoHS		
Multicast	Static Multicast MAC Address		
	IGMP SNOOPING		
	MVR		
	GMRP		

3 Hardware installation

This chapter provides unpacking and installation information for the Industrial PoE switch.

open a seal

Open the shipping carton and carefully unpack its contents. Please consult the packing list located in the User Manual to make sure all items are present and undamaged. If any item is missing or damaged, please contact the local reseller for replacement.

- Switch 1pcs
- Mounting brackets 2pcs
- CD ROMs 1pcs
- User's manual 1pcs

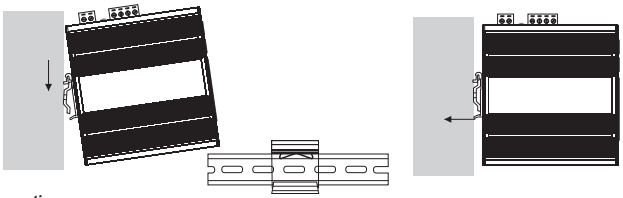
switch installation

For safe switch installation and operation, it is recommended that you:

- Visually inspect the power cord to see that it is secured fully to the AC power connector.
- Make sure that there is proper heat dissipation and adequate ventilation around the switch.
- Do not place heavy objects on the switch.

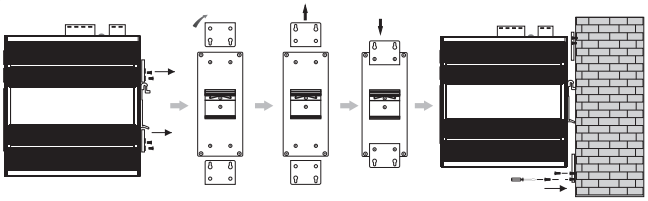
DIN-Rail Mounting

1, Use the random guide slideway to tighten the screws onto the machine.
2, The upper end of the machine guide rail is buckled into the fixed track。
3, Again gently buckle into the track



Wall-mounting

1, Use the random guide slideway to tighten the screws onto the machine.
2, Fix the screw on the wall with a screwdriver.



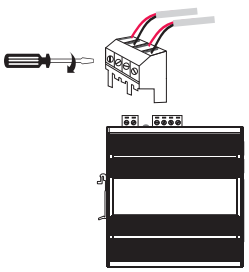
Connect power cord

The equipment is not randomly assigned to a DC power line, which is connected by a fast plug-in Phoenix terminal interface, and users are advised to use cables with current capacity exceeding 6A.

Warning: Do not turn on the power switch before power cables are connected. Power surge may cause damage to the Switch

Warning: The installation instructions clearly state that the ITE is to be connected only to PoE networks without routing to the outside plant.

(1) Ensure that the Phoenix terminal is up and down in the right direction (if the upper and lower inverts, the Phoenix terminal can not be inserted into the DC input socket) and inserted into the DC input socket.
(2) The two DC power lines are inserted into the holes in the side of the Phoenix terminal, and a screwdriver is used to tighten the screws above the Phoenix terminal in clockwise direction, so that DC power line is fixed on the Phoenix terminal.
(3) The other end of the DC power line is connected to the DC power supply system.



Power failure

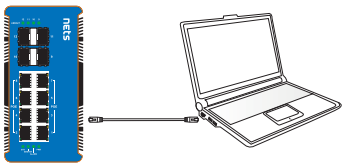
As a precaution, the switch should be unplugged in case of power failure. When power is resumed, plug the switch back in.

Connecting to the Switch

You will need the following equipment to begin the web configuration of your device:

1. A PC with a RJ-45 Ethernet connection
2. Standard Ethernet network Line

Connect the Ethernet cable to any of the ports on the front panel of the switch and to the Ethernet port on the PC.



Network connection