# User Manual Super Voltage Booster 12/24/48 VDC Industrial Giga-bit 4 port POE Switch with RJ-45 port and SFP

#### FCC MARKING

This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

#### CE MARKING

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE, the essential protection requirement of Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Company has an on-going policy of upgrading its products and it may be possible that information in this document is not up-to-date. Please check with your local distributors for the latest information. No part of this document can be copied or reproduced in any form without written consent from the company.

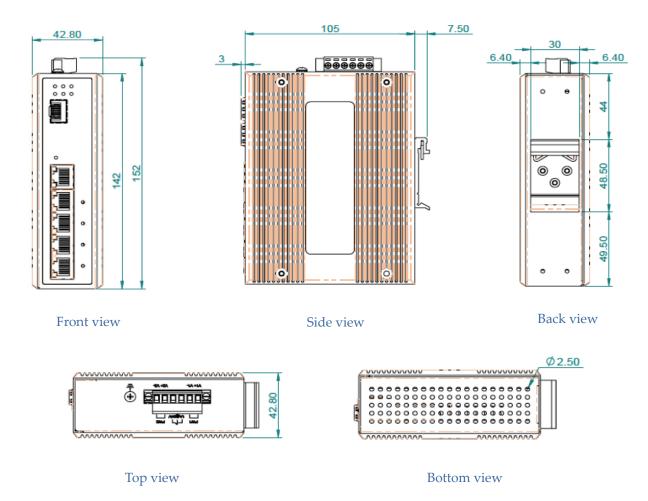
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### Introduction

This rugged designed Super Booster Industrial Gigabit 6 port POE Switch, which complies with IEEE802.3af and IEEE802.3at, has passed many rigorous environmental tests. It delivers 30watts power (Max 36W) per POE port and can generate total 120 watts power (Max 126W) to PD devices. the uplink SFP and TX ports (varied by models), can extend your environment to a much larger area.

The super voltage booster model uses 12/24/48VDC input and boosts voltage to 55VDC. It is guaranteed to meet IEE802.3at and to deliver full POE power of up to 36Watts per POE port to a PD. With its multi-purpose design, it can also be Din-Rail or wall-mounted. It is an ideal unit for IP surveillance, traffic monitoring and security application in critical environment. It can tolerate -40°C to 75°C in harsh environment to perform a reliable network.

### Housing Dimension



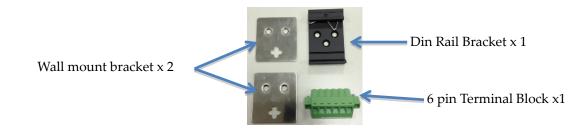
MODELS -

Super Booster Industrial Giga-bit 4 port POE Injector, 12/24/48 VDC input

This Super Voltage Booster --- The high power 4 port industrial POE+ Injector is equipped with our high efficiency ColdDesign technology which allows low input voltage, such as 12/24/48VDC be boost up to 55VDC to meet IEEE802.3at requirement. The ColdDesign technology will not only boost up Input Voltage, also reduce the excessive heat problem to a minimum. It accepts the input voltage as low as 12VDC, to be boost up to 55VDC. And it is also equipped with 1 SFP fiber that cascaded to your other devices to expand your network application. It is being rigorously tested for your Security, Transportation and Telco application.

## Installation package

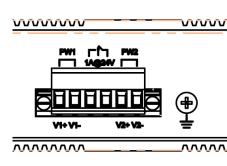
This unit can be installed by din-rail mounted or wall-mounted. Din-rail brackets and wall-mounted bracket are included.



### Power connection

This unit provides a 6 pin terminal block. It can be operated using either 12 VDC, 24 VDC, or 48VDC power source. Always make sure your input voltage is within this supported voltage range for each model.

WARNING - any exceeded input voltage will not make this unit function and may damage this unit.



To make power connection – Follow the printed polarity for V1+, V1-, V2+, V2-, and ground. Connect positive wire to V+ , connect negative wire to V-, also connect neutral wire to the ground screw as shown .

Relay -- You may use 24V@1A relay connection to your external device for special purpose. When 2 powers are connected, the relay is in SHORT mode. When any power source fails, the relay change to OPEN status.

Power connecting procedure:

STEP 1 – Pull out 6 pin terminal block.

STEP 2 – Connect wire to V1+, V1-, or V2+, V2-, and Ground the neutral wire to the ground screw. STEP 3– Plug back 6 pin terminal block to its place.

#### WARNING -

Always ground the power source to maintain a clean power input. Many cheaply made power supplies create too much noise and will cause the power input to fluctuate when connected to this unit. To avoid this, always ground the power source to maintain a clean power input.

## Dip switch function

This unit is equipped with dip switches, located on the front panel. Adjusting the dip switches will change the default function of this unit. This unit has set to manufacturer default as: TX On and the speed is set to 1000M for both port 5 TX and port 6 SFP. You may adjust dip switch setting to select port disable port 5 TX or set SFP speed to 100M. The detail setting as shown below:

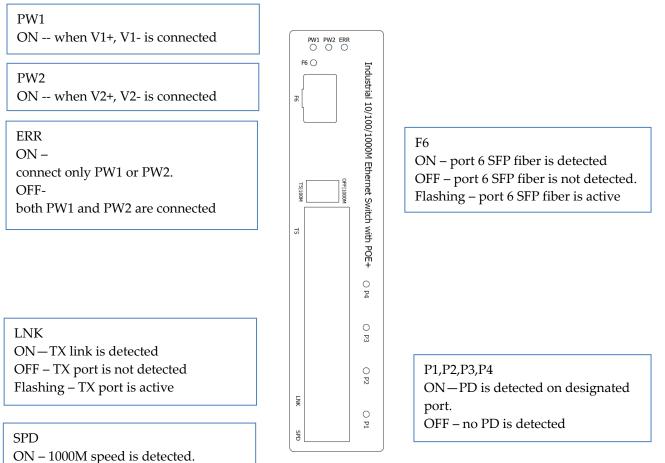
Warning:

Dip switch function will not work if it is changed when power is connected. Always turn off or disconnect power supply to change dip switch settings.

0	FF	-		
		Dip 1 to select Port 5 TX Enable or Disable	ON	Enable (default)
			OFF	Disable
Ш		Dip 2 to select SFP Speed	ON	100M
1	2		OFF	1000M (default)

ON

## LED indicator



OFF – 10M or 100M speed is detected

Specification:

IEEE 802.3 UDBase-T Ethemet     IEEE 802.30 100Base-TX Fast Ethernet     IEEE 802.3ab 1000Base-TX Gigabit Ethernet     IEEE 802.3ac 1000Base-TX Gigabit Ethernet     IEEE802.3ac flow Control and Back Pressure,     IEEE802.3ac flow Control and Back Pressure,     IEEE802.3ac flow Control and Back Pressure,     IEEE802.3ac flow Control and Back Pressure     Jumbo Frame     9KB     MAC address Table Size     1K     Packet Buffer Size     1M     Network Connector :     4 Giga POE+ 802.3at/af PSE port     Auto MDI/MDLX function, Full/Half duplex     1 x SFP 100/1000BaseTX     1 x SFP 100/1000M BaseX     1 ther Cable (Single-mode): 9/125um, 62.5/125um     Fiber Cable (Single-mode): 9/125um     Fiber Cable (Single-mode): 9/125um     Fiber Cable (Single-mode): 9/125um		
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DIP SwitchON: Port 5 TX Enable(DEFAULT) DIP 2: OFF: SFP 1000M (DEFAULT) ON: SFP 100MReserve polarity protectionPresentOverload current protectionPresentPower SupplyRedundant Dual DC 9V-56V Power Input without POE		
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DIP 2: OFF: SFP 1000M (DEFAULT) ON: SFP 100M     Reserve polarity protection     Present     Overload current protection     Present     Power Supply     Redundant Dual DC 9V-56V Power Input without POE	DIP Switch	
Reserve polarity protectionPresentOverload current protectionPresentPower SupplyRedundant Dual DC 9V-56V Power Input without POE		
Overload current protection Present   Power Supply Redundant Dual DC 9V-56V Power Input without POE		
Power Supply   Redundant Dual DC 9V-56V Power Input without POE		
	Overload current protection	Present
Power Consumption5.76W@12/24/48 VDC full load, Without POE	Power Supply	Redundant Dual DC 9V-56V Power Input without POE
	Power Consumption	5.76W@12/24/48 VDC full load, Without POE

	Relay outputs with current carrying capacity of 1	
	A @24VDC,	
Alarm Relay Contact	Relay in short circuit mode when 2 powers are	
	connected. in open circuit mode when only one	
	power supply is connected	
Ethernet Switch power input	Ethernet switch power input 9VDC -56VDC	
	POE power per port 30watts. Maximum 36Watts	
	Maximum total power 126Watts at 24VDC and	
POE power	48VDC power input.	
	Maximum total power 65W at 12VDC power	
	input.	
	Provide 2 Redundant power , Alarm relay	
	contact ,6 Pin	
	Wire range: 0.34mm <sup>2</sup> to 2.5mm <sup>2</sup>	
Removable Terminal Block	Solid wire (AWG):12-24/14-22	
	Stranded wire(AWG): 12-24/14-22	
	Torque:5lb-In/0.5Nm/0.56Nm	
	Wire Strip length: 7-8mm	
Operating Temperature	-40°C~75°C fully tested.	
Operating Humidity	5% to 95% (Non-condensing)	
Storage Temperature	-40°C~85°C	
Housing	Rugged Metal, IP30 Protection	
Case Dimension (W X D X H)	142mmx43mmx105mm (LxWxD)	
Installation mounting	DIN Rail mounting and Wall Mounting	
EMC/EMS	CE, FCC,VCCI	