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5 Port Unmanaged Industrial Gigabit Ethernet Switch

IES51000

*actual product may vary from photos

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Manual Revision: 08/15/2014

FCC Compliance Statement

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.

Industry Canada Statement

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe [A] est conforme à la norme NMB-003 du Canada.

Digital apparatus (ICES003)

CAN ICES-3 (A)/NMB-3(A)

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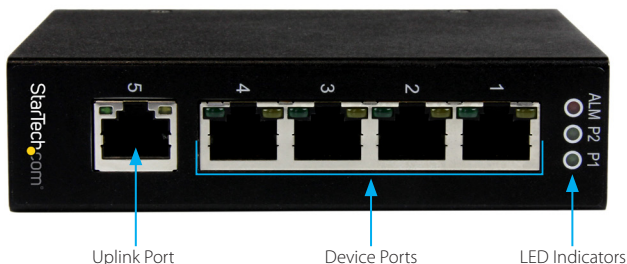
Introduction

Packaging Contents

- 1 x Industrial Ethernet Switch
- 2 x Wall-Mount Brackets
- 1 x DIN-Rail Clip
- 4 x Screws
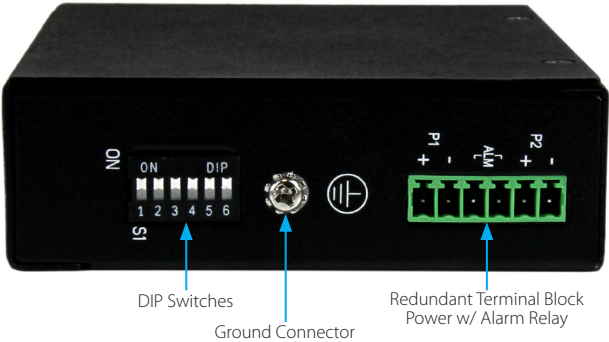- 1 x Terminal Block
- 1 x Instruction Manual

System Requirements

- 12 – 58V DC power source (terminal block)
- 10/100/1000 Mbps compatible network devices
- Cat5 or better UTP Ethernet cabling

Product Diagram

Front View

Uplink Port   Device Ports   LED Indicators

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Top View

DIP Switches

Ground Connector

Redundant Terminal Block
Power w/ Alarm Relay

LED Indicators

|	
1 x P1 (Power)	Solid (Green): Power is connected and functioning
	Off: No power input detected
1 x P2 (Power)	Solid (Green): Power is connected and functioning
	Off: No power input detected
1 x ALM (Alarm)	Solid (Red): Power failure detected
	Off: No alarm / alarm disabled
5 x Link / Act	Solid (Green): Link detected (no traffic)
	Flashing: Activity
	Off: No Link detected
5 x Speed	Solid (Yellow): 1000 Mbps connection detected
	Off: 10/100 Mbps or no link detected

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DIP Switch Settings

Pin #	Position	Status
Pin 1	ON	Enable power alarm
	OFF	Disable power alarm
Pin 2	ON	Enable broadcast storm rate limit
	OFF	Disable broadcast storm rate limit
Pin 3	ON	NOT USED
	OFF	NOT USED
Pin 4	ON	NOT USED
	OFF	NOT USED
Pin 5	ON	NOT USED
	OFF	NOT USED
Pin 6	ON	NOT USED
	OFF	NOT USED

Installation

The Network Switch is designed to sit on a flat surface, or be securely mounted to either a wall or DIN-Rail using the included brackets. Please follow the instructions below, depending on your preferred installation.

Wall Mounting

1. Attach the Wall-mount brackets to either the rear, or the side of the switch, depending on your desired orientation.

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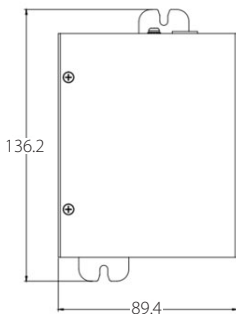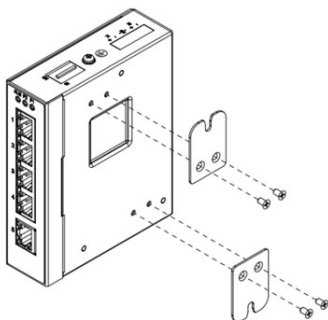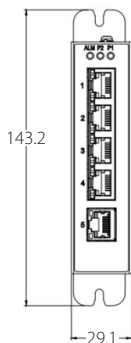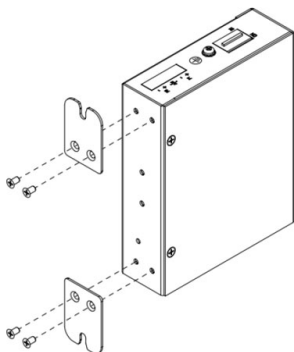
2. Determine the desired location and orientation of the switch on the wall, and mark the bottom mounting notch location.

3. Depending on the mounting surface, use the appropriate tools and hardware to install a mounting screw into the wall. There should be a gap of approximately 2 mm between the head of the screw and the wall surface.

4. Place switch back onto the wall with the mounting notch resting against the previously installed screw, and mark the location for the top mounting notch, ensuring that the switch is sitting level.

5. With the switch in place on the wall, install the second mounting screw and fully tighten both so the device is held in place.

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DIN-Rail Mounting

1. Attach the DIN-Rail mounting bracket to the switch.
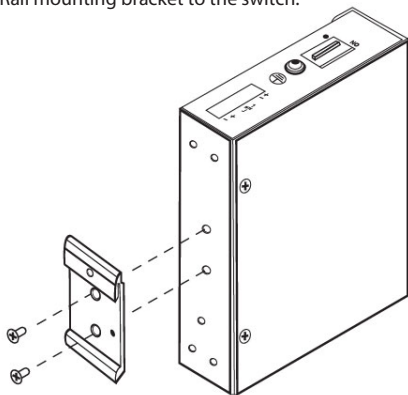
2. Hook the unit over the DIN-Rail and push the bottom of the unit in until it clicks into place.

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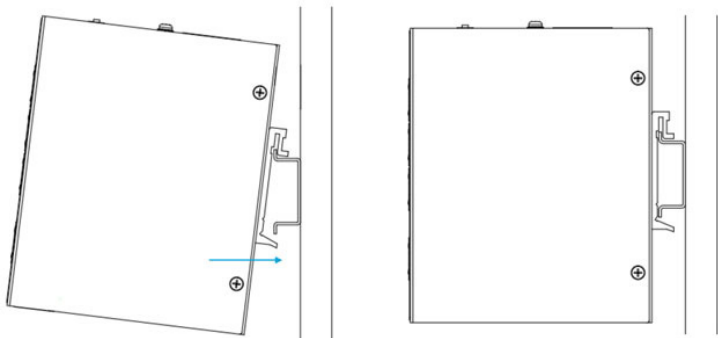
Hardware Installation

1. Ground the device using the ground screw.

2. Power the switch from a DC power supply (input range 12 – 58V) by connecting the positive and negative wires into the V+ and V- contacts of P1 on the terminal block and tightening the wire clamp screws.

3. (Optional) Connect a redundant power supply connection to the contacts for P2.

4. (Optional) Connect the alarm relay as shown. By inserting the wires and set the DIP switch of the respective Port Alarm to "ON", the relay output alarm will detect any port failures, and form a short circuit. The alarm relay out is "Normally Open".
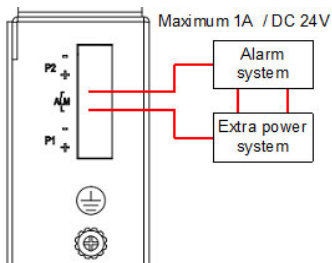
5. Connect your uplink (connection to an upstream network switch) and network devices using RJ45 terminated Cat 5 or better network cabling.

Specifications

Number of Ports	5
Compatible Networks	10/100/1000 Mbps
Industry Standards	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-TX,
	IEEE 802.1p QoS, IEEE 802.3az Energy-Efficient Ethernet, IEEE 802.3ad Link Aggregation
	IP30 (Enclosure)
Connectors	5 x RJ-45 Female
Maximum Data Transfer Rate	2 Gbps (Full-Duplex)
Switching Architecture	Store-and-Forward
Buffer Size	128 KB
Full Duplex	Yes
Auto MDIX	Yes
Jumbo Frame Support	Up to 9000 bytes
Flow Control	IEEE 802.3x
Power Consumption	3.63W Max
Power	12 – 58V Terminal Block
Enclosure Material	Metal
Operating Temperature	-40°C to 75°C (-40°F to 167°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5~95% RH (Non-Condensing)
Dimensions	112.2 x 89.4 x 29.1 mm

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