LNK-IMC005GPM

Mini Industrial Managed 5x10/100/1000Base-T (4PoE+1Uplink) Ethernet Switch

This quick start guide describes how to install and use the Hardened Industrial 5 ports switch. This is the Ethernet switch of choice for harsh environments constrained by space.

Overview

IMC005GPM is a DIN-rail type Web Management switch that supports with 12~48VDC wide range redundant power input. It is an industrial product with a working temperature range of -40 ℃ to 75 ℃ and hardened Al Case. 5 10/100/1000BASET RJ45 auto-MDI/MDI-X ports with IEEE 802.3at PoE+ (TP1-TP4) and equipped with an Uplink port (TP5) . The Ethernet port supports both half-duplex and full-duplex mode. With its reliable design and ease of use, the product is a great choice for integrating networks consisting of network devices such as IP cameras and wireless access points between remote locations.

General

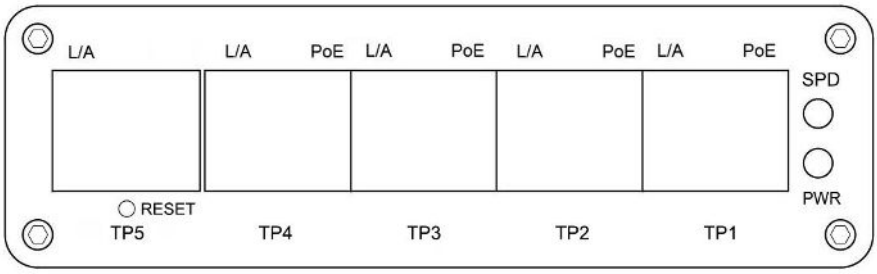
To ensure trouble free transportation and storage, all products must be thoroughly inspected, tested and properly packed before delivery. Check the product upon receipt for any visible damage which may have been caused during shipment.

Package Content

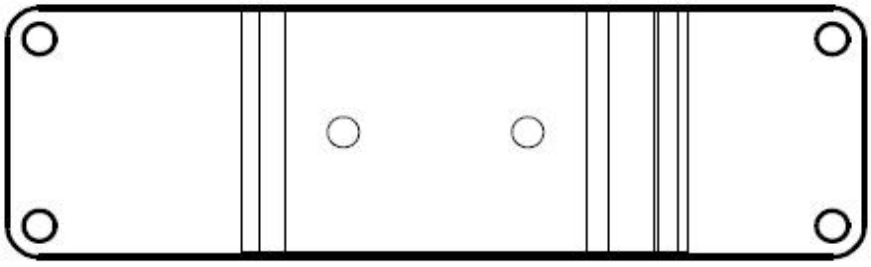
- **IMC005GPM** Ethernet Switch x 1
- Quick Start Guide x 1
- L-shaped wall mount bracket x 1

Physical Description

Front Panel



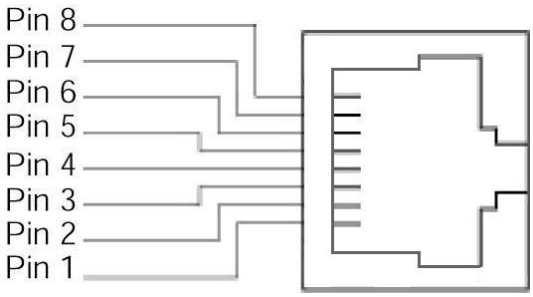
Rear Panel



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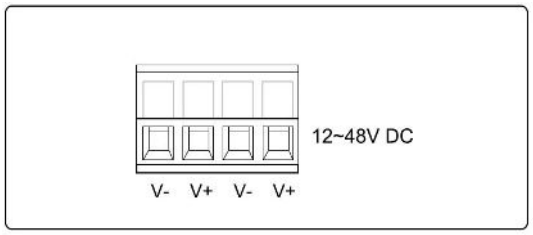
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Interface



	Assignment	
Pin	**Ethernet**	**PoE Out**
1	TP0+	TP0+/VCC+
2	TP0-	TP0-/VCC+
3	TP1+	TP1+/VCC-
4	TP2+	TP2+/VCC+
5	TP2-	TP2-/VCC+
6	TP1-	TP1-/VCC-
7	TP3+	TP3+/VCC-
8	TP3-	TP3-/VCC-

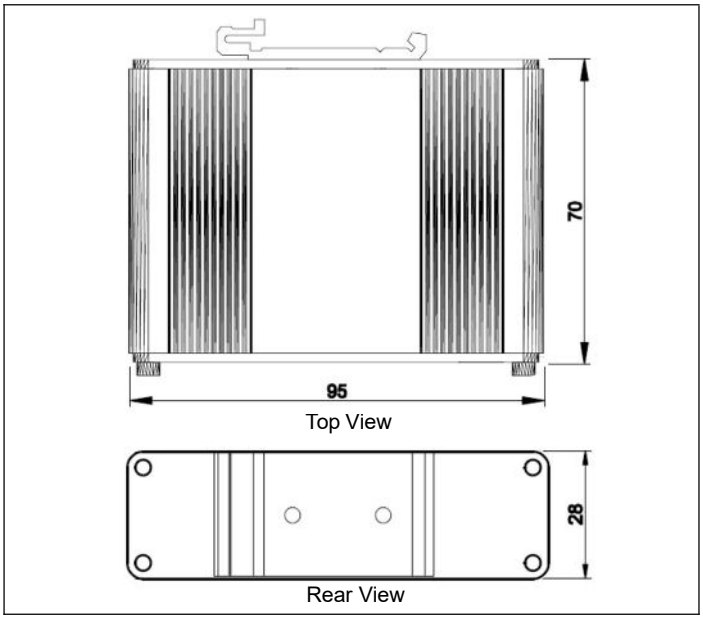
Power Connection



Redundant Power **12~48VDC**	**V-**	GND	Terminal Block
	V+	12~48V	

The Port Status LEDs, dimension drawing

LED	State	Indication
PWR	On	Power on
	Off	Power off
L/A SPD	Steady	A valid network connection established
	Flashing	Transmitting or receiving data. A Stands for Activity
PoE	On	PoE Normal
	Off	PSE device not detected



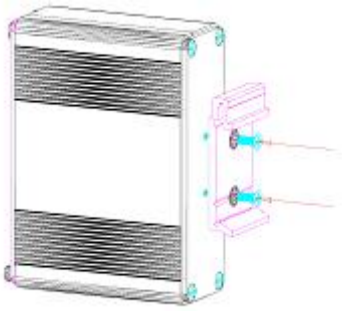
Functional Description

- 5x10/100/1000Base-T RJ45 with Auto-MDI/MDIX
- Supports IEEE 802.3af/at PoE+ (TP1 to TP4) and equipped with Independent Uplink port (TP5)
- Supports 12~48VDC wide voltage Redundant Power Input and boost to 48V PoE output
- Supports up to 120w PoE budget (48VDC), 90wt PoE budget (24VDC), 60w PoE budget (12VDC)
- Supports Full/Half duplex and 802.3x Flow control
- Support DIN-Rail and Wall-mount installation; Design of brushed oxidized aluminum alloy housing
- Environmentally hardened -40℃ to 75℃ (-40℉ to 167℉) operating temperature
- Extensive LED indicators for network diagnostics

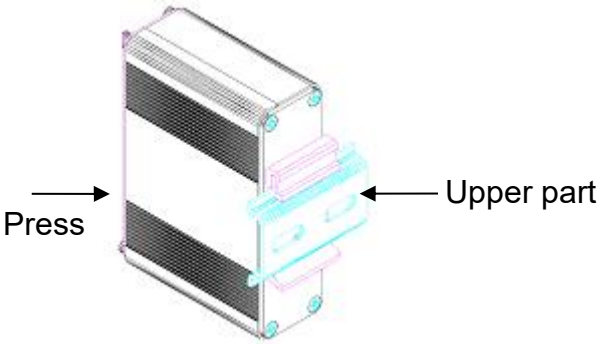
Installation

DIN Rail Installation

IMC005GPM can be installed on a DIN rail. Installation steps are as follows:



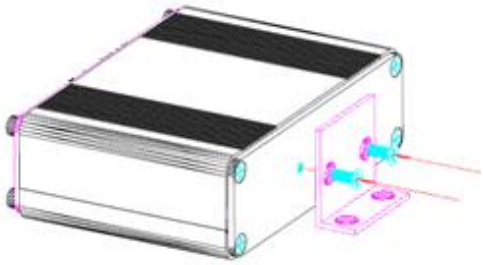
1. Tighten the screws to fix the DIN Rail plate



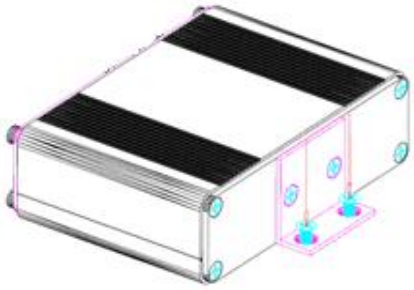
2. Lock the upper part of the DIN rail clip on the upper side of the track. Gently press it until the clip is securely locked on the track

Wall Mount Installation

IMC005GPM can also be installed on a wall or a flat surface. Installation steps are as follows:



1. Tighten the screws to fix the wall mount bracket



2. Mount the switch on the wall or on a flat surface with 2 screws piercing through the mounting holes to secure it in position.

Setup

a) Connect the Ethernet port of the Switch to a IP camera (Ethernet device) or network device with a network cable.

b) Connecting a network cable to an NVR or other uplink device via the Uplink port.

c) After the device is powered on, the PWR indicator will all be on. If the indicators are not on, check the power supply connection.

d) After all cables are correctly connected, the indicators will be lit as per port status LEDs (page 2).

WEB Management

After correct connection, change IP address of the PC to the same network segment as the switch

Step 1





Step 2

Access the WEB management interface by entering the switch IP through a browser

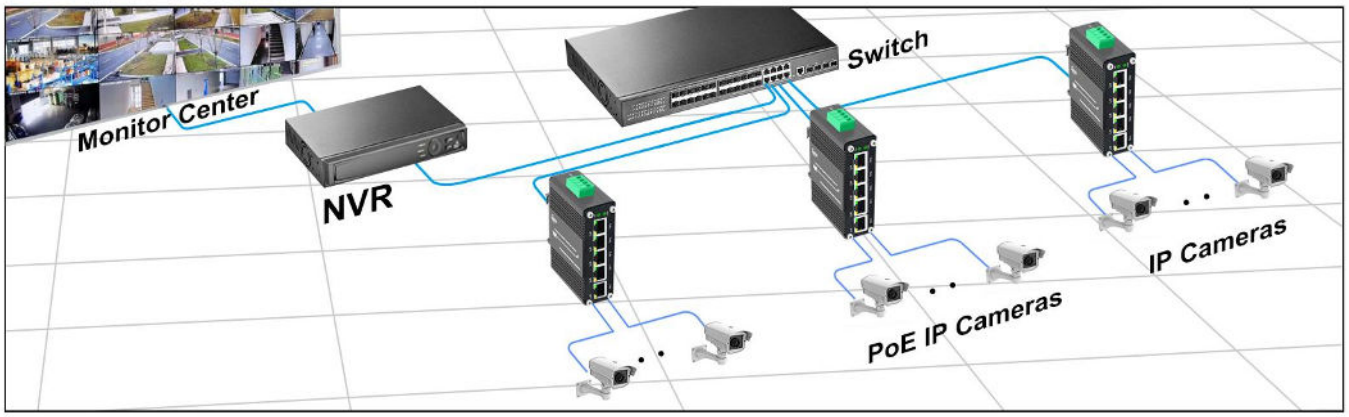
Manage the switch remotely and view it's status for easy and efficient operation

Step 3



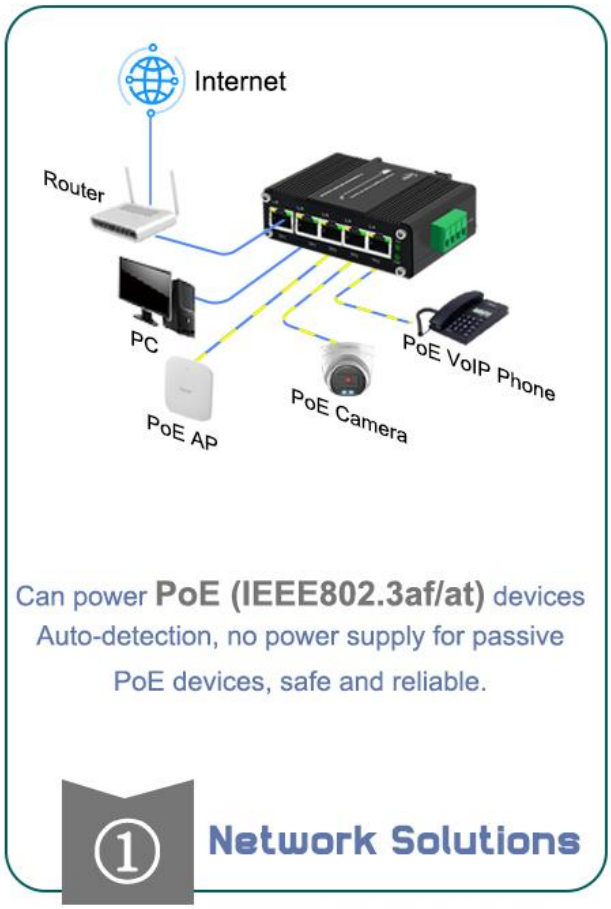
Application

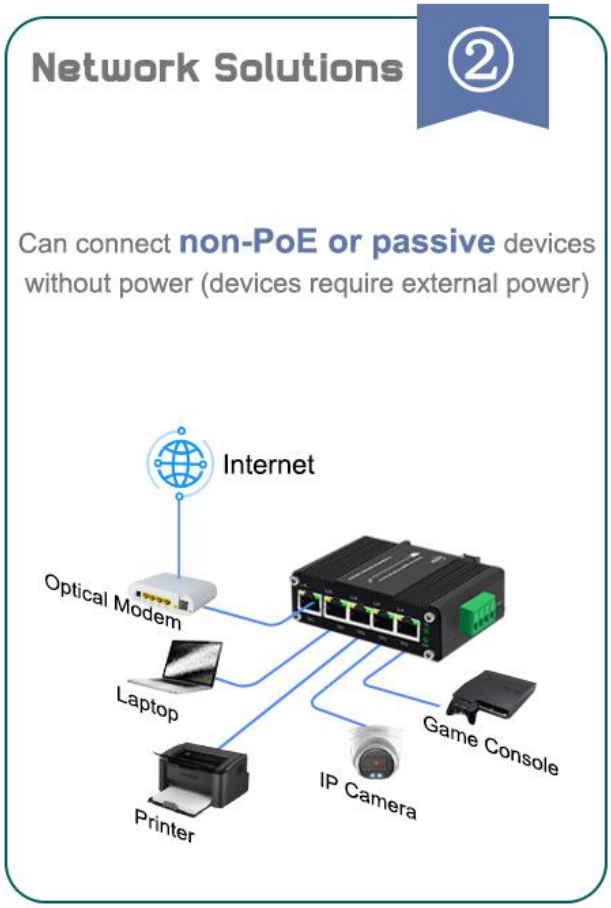
Security Monitoring



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Technical Indexes

Ethernet	
Standards:	IEEE 802.3 Ethernet
	IEEE 802.3u Fast Ethernet
	IEEE 802.3ab Gigabit Ethernet
	IEEE 802.3x Full-Duplex Flow Control
	IEEE 802.3az Energy Efficient Ethernet (EEE)
	IEEE 802.3at Power over Ethernet Plus PSE
	IEEE 802.3af Power over Ethernet Plus
Forward & Filtering Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Packet Buffer:	1Mbits
Packet Length:	9K bytes
MAC Address Table:	4K
Backplane Bandwidth:	10Gbps/non-blocking

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Packet forwarding rate:	14.88Mpps
Connector:	5 10/100/1000BASET RJ45 auto-MDI/MDI-X ports 4 ports with 802.3at PoE+ (Ports 1 to 4)
PoE (Power over Ethernet)	
Standard:	IEEE802.3af/at
Port:	RJ45
Power Pin Assignment	1/2(+); 3/6(-) or 4/5(+); 7/8(-)
PoE Budget:	**Up to 120-watt PoE budget (48VDC),** **90-watt PoE budget (24VDC),** **60-watt PoE budget (12VDC)**
Environmental	
Operating Temperature:	-40°C to 80°C (-40°F to 176°F)
Storage Temperature:	-40°C to 85°C (-40°F to 185°F)
Relative Humidity:	5% to 95% non-condensing
MTBF	> 200,000 hrs
Electrical and Mechanical	
Input Power:	12~48VDC (Terminal Block)
Power Consumption:	<125W (Non-PoE<6W)
Power Input Overload:	Automatic Resettable
Reverse Polarity:	Present
Reset Button	Support
Dimensions (WxDxH):	95 x 70 x 28 mm
Weight:	0.25KG
Casing:	Aluminum Case
Mounting Options:	DIN-Rail / Wall-mount
LED Indicators	
PWR	Power
SPD	Data rate
L/A	Link/Activity
PoE	PoE Status
WEB Management Features	
System Settings	Device Info; Account Settings; Restoring; Reboot; Upgrade
Port Management	Port Settings; Port Mirroring; Port Statistics; Rate Limit
VLAN Settings	802.1Q VLAN; PVID Settings; Hybrid Port
QOS Settings	Priority Selection; Scheduling Mode
Loop Detection	Support
Saving Settings	Get Configuration; Restore Configuration; Saving Configuration

Default IP	192.168.40.253
Default User Name	admin
Default Password	admin
Regulatory Approvals	
ISO9001	
EN55022:2010+AC: 2011, Class A	
EN 61000-3-2: 2006+A1: 2009+A2: 2009	
EN 61000-3-3: 2013	
EN55032:2017	
IEC 61000-4-2: 2008 (ESD)	
IEC 61000-4-3: 2010 (RS)	
IEC 61000-4-4: 2012 (EFT)	
IEC 61000-4-5: 2014 (Surge)	
IEC 61000-4-6: 2013 (CS)	

Ordering Information

Model	Description
ZP-IMC005GPM	Mini Industrial Managed 4-Port 10/100/1000BASE-T 802.3at PoE + 1-Port 10/100/1000T Ethernet Switch
Mounting Options	► Default DIN-Rail Bracket installed; Wall Mount Bracket is included.
Power Options	► Power Supply is to be purchased separately ► Recommend MeanWell NDR-120-48