

# Quick Installation Guide

# IGPS-1041GTA

## Industrial Unmanaged Gigabit PoE Switch

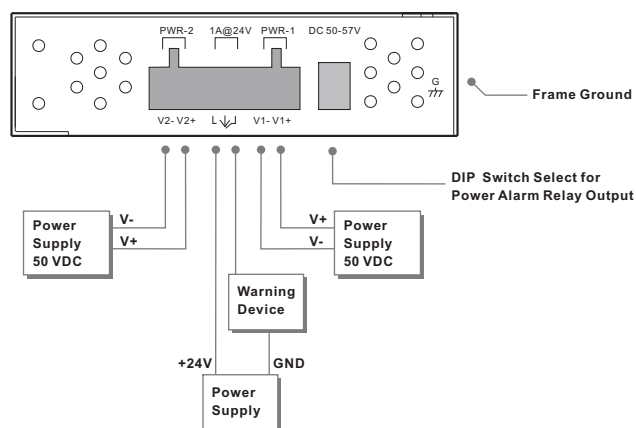
### Introduction

IGPS-1041GTA is an unmanaged PoE Ethernet switch with P.S.E. function. IGPS-1041GTA support Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. IGPS-1041GTA has 4X10/100/1000Base-T(X) P.S.E. (Power Sourcing Equipment) ports. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE setup. The wide operating temperature range from -40°C to 70°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choices for PoE Ethernet application.

### Features

- > Provide 4x10/100/1000Base-T(X) PoE (P.S.E.) ports
- > Support P.S.E. based on IEEE 802.3at standard up to 30 Watts per port
- > Support auto-negotiation and auto-MDI/MDI-X
- > Support store and forward transmission
- > Support flow control
- > Rigid IP-30 housing design
- > DIN-Rail and wall mounting enabled

### Power Connection Guide



● DIP Switch Function

DIP-1	DIP-2	Description
OFF	OFF	Power failure relay alarm disabled
ON	OFF	PWR-1 failure, relay alarm enabled
OFF	ON	PWR-2 failure, relay alarm enabled
ON	ON	PWR-1 or PWR-2 failure, relay alarm enabled

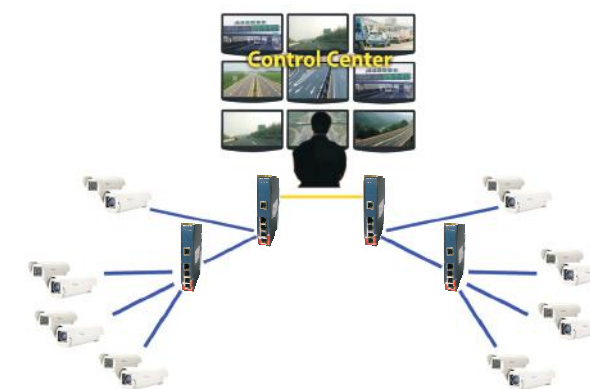
### Specifications

ORing Switch Model	IGPS-1041GTA
<b>Physical Ports</b>	
10/100/1000Base-T(X) P.S.E. Port with P.S.E.	4
10/100/1000Base-T(X) Port in RJ45 Auto MDI/MDIX	1
<b>Technology</b>	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow control IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)
MAC Table	2048 MAC addresses
Processing	Store-and-Forward
<b>LED Indicators</b>	
Power indicator	Green: Power LED x2
Fault indicator	Amber: Indicate PWR1 or PWR2 failure
10/100/1000Base-T(X) RJ45 port and PoE indicator	Green on the left for port Link/Act. Green on the right for PoE power injected.
10/100/1000Base-T(X) RJ45 port indicator	Green for port Link/Act. Amber for duplex indicator.
<b>DIP-Switch</b>	
DIP-Switch 1	Power-1 failed warning : (ON) enable, (OFF) disable
DIP-Switch 2	Power-2 failed warning : (ON) enable, (OFF) disable
<b>Fault contact</b>	
Relay	Relay output to carry capacity of 1A at 24 VDC
<b>Power</b>	
Redundant Input power	Dual DC inputs 50VDC on 6-pin terminal block
Power consumption(Typ.)	6.1 Watts (Power device not included)
Overload current protection	Present
Reverse polarity protection	Not Present
<b>Physical Characteristic</b>	
Enclosure	IP-30
Dimension (W x D x H)	26.1(W)x94.9(D)x144.3(H) mm (1.03x3.74x5.68inch.)
Weight (g)	407g
<b>Environmental</b>	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 70°C (-40 to 158°F)
Operating Humidity	5% to 95% Non-condensing
<b>Regulatory approvals</b>	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1
Warranty	5 years

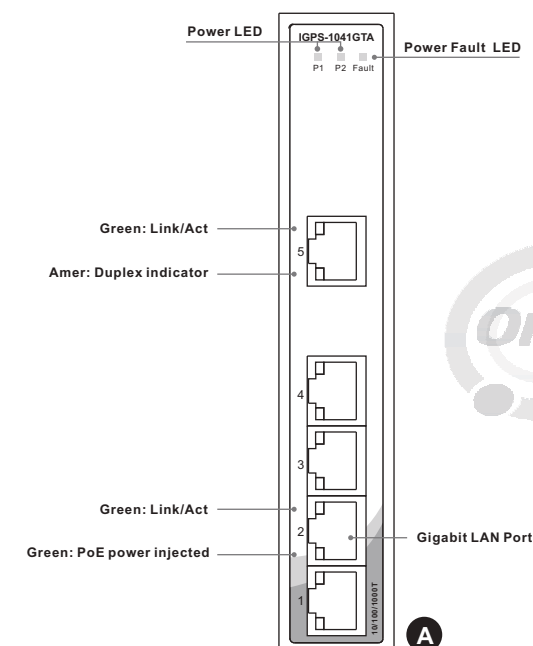
### Practical Operation

IGPS-1041GTA can be used in connecting several PoE P.D. Ethernet devices like IP-Camera or other Ethernet devices. In addition, there are two different power inputs at terminal block to avoid interruption caused by power down. When the primary DC power input fails, the backup power input will take over immediately to guarantee a non-stop operation.

● Connections of Ethernet devices



### Practical Operation





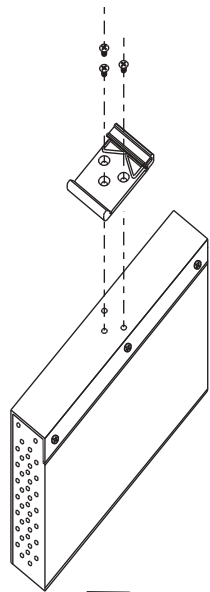
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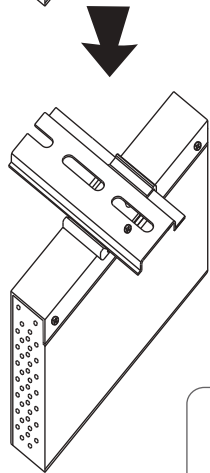
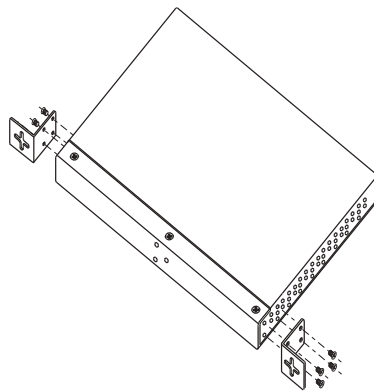
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### Installation

#### DIN-Rail Install Step

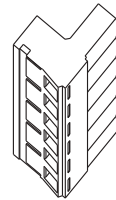


#### Wall-mounted Install Step



### Accessory

#### ① 6-Pin Terminal block



#### ② Dust Cover (RJ-45)



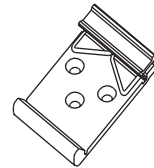
#### ③ Round Screw (M3 X3)



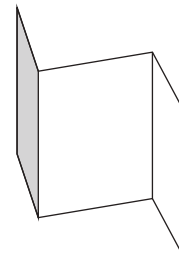
#### ④ Wall-mounted kit (for Slim Type)



#### ⑤ 25mm DIN-Rail kit



#### ⑥ QIG



### Communication Connections

#### 1000Base-T Ethernet Connection

##### RJ45 (8-pin, MDI) Port Pinouts

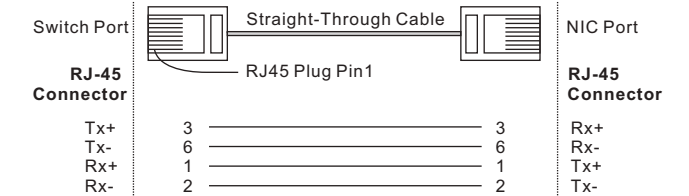
Pin	MDI
1	BI_DA+
2	BI_DA-
3	BI_DB+
4	BI_DC+
5	BI_DC-
6	BI_DB-
7	BI_DD+
8	BI_DD-

##### RJ45 (8-pin, MDI-X) Port Pinouts

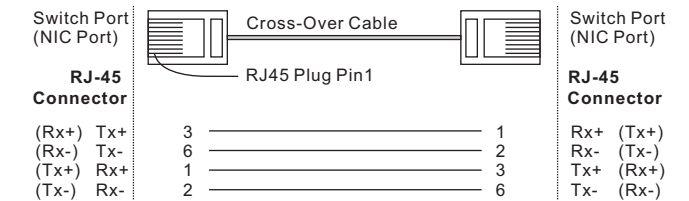
Pin	MDI-X
1	BI_DB+
2	BI_DB-
3	BI_DA+
4	BI_DD+
5	BI_DD-
6	BI_DA-
7	BI_DC+
8	BI_DC-

#### 10/100Base-T(X) Ethernet Connection

##### RJ45 (8-pin) to RJ45 (8-Pin) Straight-Through Cable Wiring



##### RJ45 (8-pin) to RJ45 (8-Pin) Cross-Over Cable Wiring



### Pin Definition

#### 10/100Base-T(X) PoE P.S.E. Port

RJ45 Pin Definition	
Pin No.	Description
# 1	TD+ with PoE Power input +
# 2	TD- with PoE Power input +
# 3	RD+ with PoE Power input +
# 6	RD- with PoE Power input -

#### 1000Base-T PoE P.S.E. Port

RJ45 Pin Definition	
Pin No.	Description
# 1	BI_DA+ with PoE Power input +
# 2	BI_DA- with PoE Power input +
# 3	BI_DB+ with PoE Power input -
# 4	BI_DC+
# 5	BI_DC-
# 6	BI_DB- with PoE Power input -
# 7	BI_DD+
# 8	BI_DD-

### Packing list

Model name	Front Panel	Model Description	Accessory
IGPS-1041GTA	A	Industrial 5-port slim type unmanaged Gigabit PoE Ethernet switch with 4x10/100/1000Base-T(X) P.S.E. and 1x10/100/1000Base-T(X)	⊗X1, ⊗X5, ⊗X8, ⊗X2, ⊗X1, ⊗X1

ORing Industrial Networking Corp.

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