

# IGS-402S-4PH24

**4x 10/100/1000Base-T+ 2x 100/1000Base-X SFP Slot with 4x PoE+ Ethernet Switch (120 Watts, 24V Booster)**



IGS-402S-4PH24 model is a non-managed industrial grade Gigabit PoE (Power over Ethernet) switch with 4x 10/100/1000Base-T PoE ports and 2 SFP Gigabit Ethernet fiber ports that provide stable and reliable Ethernet transmission. Housed in rugged DIN rail or wall mountable enclosures, these switches are designed for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications. Standard operating temperature range models (-10 to 60°C) and wide operating temperature range models (-40 to 75°C) fulfill the special needs of industrial automation applications.

## Features

- Provides 4-port IEEE802.3at/af PoE output (30W/Per Port)
- Maximum PoE output power budget 120W
- 24/48VDC Redundant dual input power design
- 4-Port 1000Base-T RJ-45 with 2 Fiber Gigabit Ethernet
- Regulated PoE output voltage at 55VDC
- Wide operating temperature -40 ~ 75°C (IGS-402S-4PHE24 )
- UL60950-1, CE, FCC, EN50121-4 certification
- Industrial Grade EMS, EMI, EN61000-6-2, EN61000-6-4 Certified
- IP30 rugged metal housing

## Specifications

<b>IEEE Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit Ethernet IEEE 802.3x Flow Control and Back Pressure IEEE 802.3at, IEEE802.3af
<b>Switch Architecture</b>	Back-plane (Switching Fabric): 12Gbps
<b>Data Processing</b>	Store and Forward
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control
<b>Provides Broadcast Storm Protection</b>	Present, Enable / Disable set by DIP SW
<b>Jumbo Frame</b>	10K Bytes
<b>MAC Address Table</b>	8K
<b>Packet Buffer Size</b>	1Mbits
<b>PoE Standard</b>	IEEE 802.3at/af
<b>PoE RJ-45 Pin Assignment</b>	RJ-45 port # 1~# 4 support IEEE 802.3at/af End-Span, Alternative A mode Positive (V+): RJ-45 pin 1, 2. Negative (V-): RJ-45 pin 3, 6. Data (1, 2, 3, 6, 4, 5, 7, 8)
<b>Network Connector</b>	4 x RJ-45 10/100/1000Base-T auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex 2 x SFP 100/1000Base-X dual mode slot
<b>Network Cable</b>	UTP/STP above Cat. 5e cable EIA/TIA-568 100-ohm (100m) Fiber Cable (Multi-mode): 50/125um, 62.5/125um Fiber Cable (Single-mode): 9/125um
<b>Protocols</b>	CSMA/CD
<b>LED</b>	Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber) Per RJ-45 port : Link/Active (Green), Speed 10 (OFF), 100 (Green), 1000 (Yellow) Fiber Per port: Link/Active (Green) PoE Port LED : • Active : ON • Inactive : OFF • Fault : Flash (Over Load, Short Circuit, Port failed at Startup)
<b>Safety</b>	UL60950-1
<b>Rail Traffic</b>	EN 50121-4
<b>MTBF</b>	334,448 Hours
<b>Warranty</b>	5 years

<b>DIP SW</b>	DIP 1 ON : Disable power failure alarm OFF : Enable power failure alarm DIP 2 ON : Disables broadcast storm protection OFF : Enable broadcast storm protection DIP 3 ON : Fiber 2 for 100Base-FX SFP OFF : Fiber 2 for Gigabit SFP DIP 4 ON : Fiber 1 for 100Base-FX SFP OFF : Fiber 1 for Gigabit SFP
<b>Reserve Polarity Protection</b>	Present
<b>Overload Current Protection</b>	Present
<b>Power Supply</b>	Redundant Dual DC 24/48V (20~57VDC) Input power (Removable Terminal Block)
<b>Power Consumption</b>	Max 143W @24VDC input (support up to 120W for PoE Output)
<b>PoE Power Output</b>	Maximum PoE Output power budget 120W (30W/Per Port)
<b>Alarm Relay Contact</b>	Relay outputs with current carrying capacity of 1 A @24VDC
<b>Removable Terminal Block</b>	Provide 2 Redundant power, Alarm relay contact, 6 Pin
<b>Operating Temperature</b>	-10 ~ 60°C (IGS-402S-4PH24) -40 ~ 75°C (IGS-402S-4PHE24)
<b>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Storage Temperature</b>	-40 ~ 85°C
<b>Housing</b>	Rugged Metal, IP30 Protection
<b>Dimensions</b>	106 x 62.5 x 134.8mm (D X W X H)
<b>Weight</b>	0.84kg
<b>Installation Mounting</b>	DIN Rail mounting or wall mounting
<b>EMC/EMS</b>	CE, FCC
<b>EMI</b>	FCC Part 15 Subpart B Class A, CE EN 55022 Class A EN61000-6-4 – Emission for industrial environment
<b>EMS</b>	EN61000-6-2 – Immunity for Industrial environment EN61000-4-2 (ESD) Level 3, Criteria B EN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (EFT) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (Magnetic Field) Level 3, Criteria A
<b>Shock</b>	IEC 60068-2-27
<b>Freefall</b>	IEC 60068-2-32
<b>Vibration</b>	IEC 60068-2-6

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

## Application

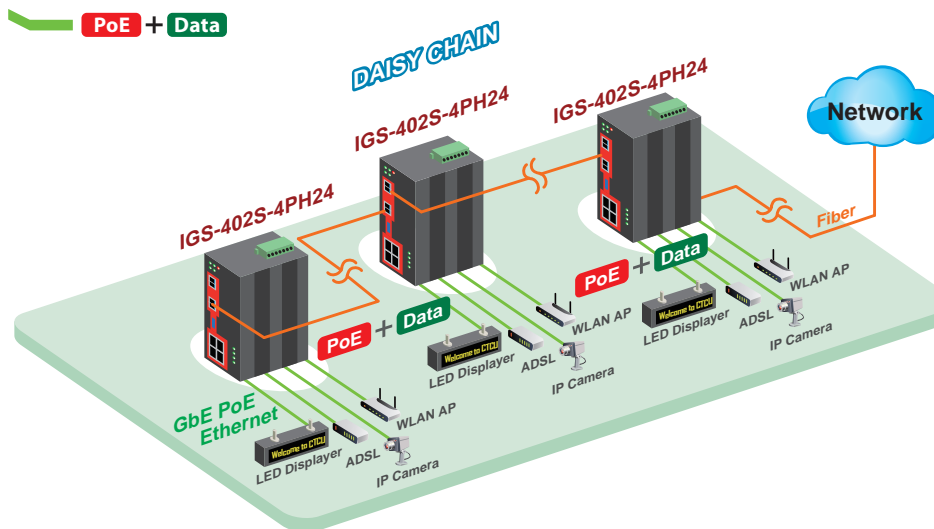
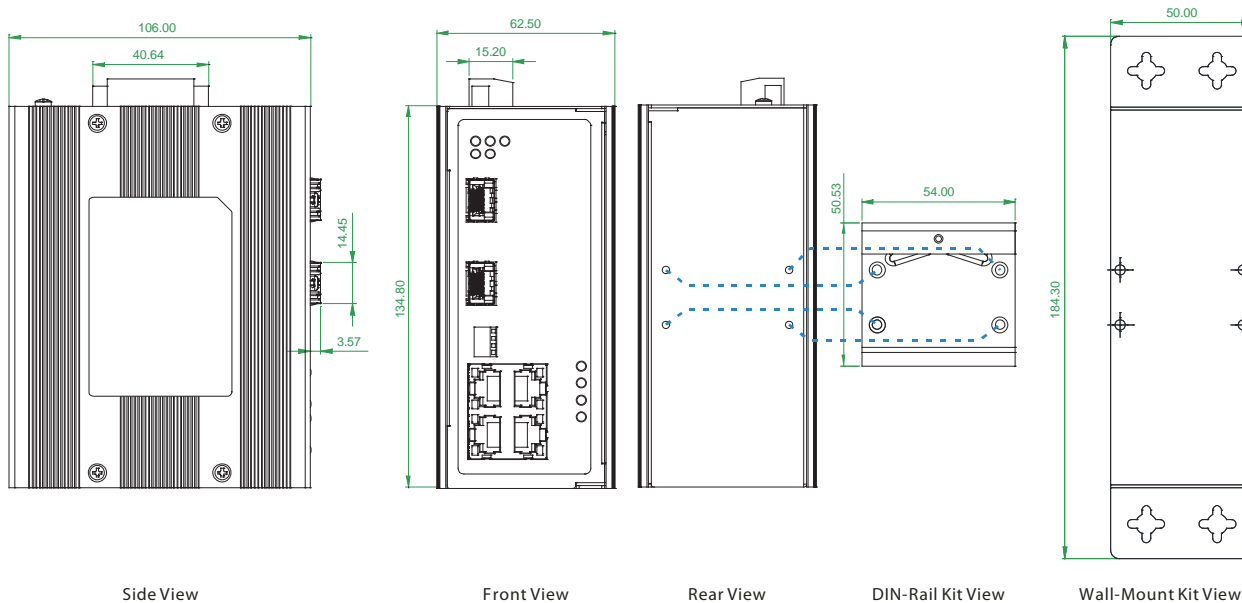


Figure : IGS-402S-4PH24 PoE Gigabit Ethernet Switch Transmission with Daisy Chain

## Dimensions



## Ordering Information

Model Name	Description
IGS-402S-4PH24	4-Port 10/100/1000Base-T + 2-Port 100/1000Base SFP Slot with 4-PoE Switch (30W/Per Port, Total 120W, 24V Booster) (-10 ~ 60°C)
IGS-402S-4PHE24	4-Port 10/100/1000Base-T + 2-Port 100/1000Base SFP Slot with 4-PoE Switch (30W/Per Port, Total 120W, 24V Booster) (-40 ~ 75°C)

### Accessories

DRP-120-24	Industrial Power, Input 88 ~ 132VAC / 176 ~ 264VAC, Output 24VDC, 120W, -10 ~ +60°C
DRP-240-48	Industrial Power, Input 85 ~ 264VAC, Output 48VDC, 240W, -10 ~ +70°C
SFP Transceiver	Compatible, Reliable, 5-year Warranty

Temperature  
**IGS - 402S - 4PH  24**  
 Example: IGS - 402S - 4PHE24

