IGS-402S-4PH24

Industrial GbE PoE Switch

4x GbE RJ45 + 2x 100/1000Base-X SFP with 4x PoE 120W, 24/48VDC

≫ *24/48VDC (20~57VDC) Redundant Dual Power input with Built-in Very High Efficiency Booster*

≫ *Regulate PoE Output Voltage (52VDC) to Stabilize PoE Device, and Guarantee Delivery PoE Power Distance to 100meter*

≫ *Provides a DIP-Switch to Set Functions*

≫ *UL60950-1, EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified*

UL60950-1   CE   FC   EN50121-4   EN61000-6-2 EN61000-6-4   PoE Regulated

The model is 6 ports unmanaged industrial grade Gigabit PoE switch with 4x 10/100/1000Base-T PoE ports that provides stable and reliable Ethernet transmission. Housed in rugged DIN rail or wall mountable enclosures, the switch is designed for harsh environments, such as industrial networking, security automation applications, IP Surveillance, 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.
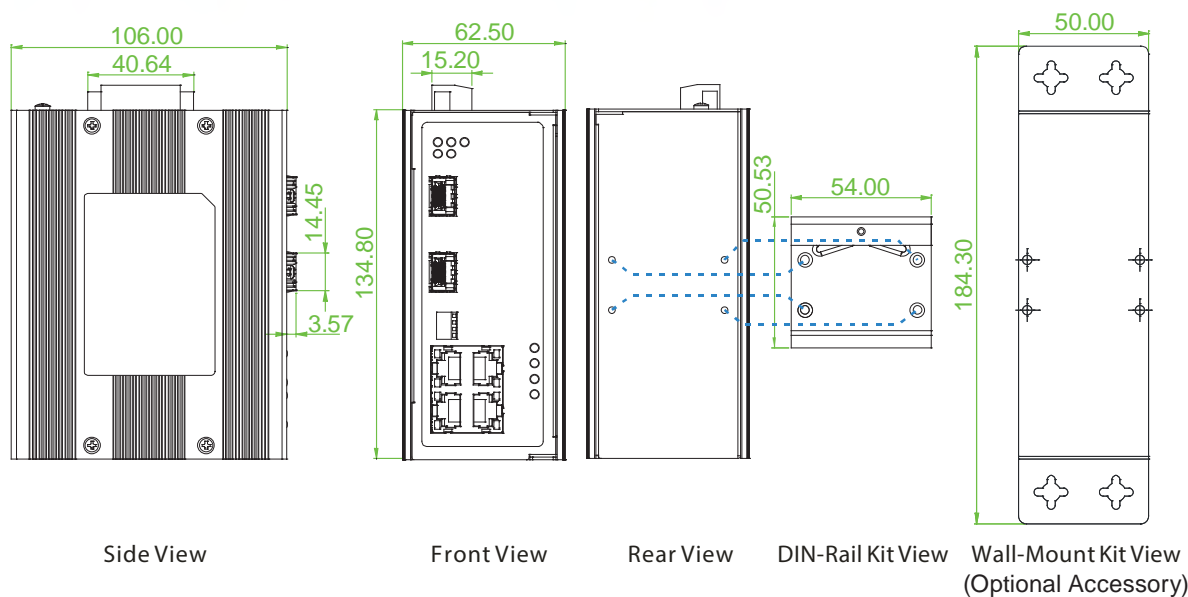
Features

- Provides 4-port IEEE 802.3at/af PoE+ output (30W per port)
- Supports power failure alarm message by relay
- Supports flow control
- Jumbo frame supported
- IP30 rugged metal housing and fanless
- Wide operating temperature -40 ~ 75°C ("E" model)

Specifications

Standard	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 802.3af	PoE (Power over Ethernet)
	IEEE 802.3at	PoE+ (Power over Ethernet enhancements)
Switch Architecture	Back-Plane (Switching Fabric): 12Gbps (Full Wire-Speed)	
Data Processing	Store and Forward	
Flow Control	IEEE 802.3x flow control, back pressure flow control	
Provides Broadcast Storm Protection	Enable / Disable set by DIP SW	
Jumbo Frame	10K Bytes	
MAC Address Table	8K	
Packet Buffer Size	1Mbits	
PoE Standard & RJ-45 Pin Assignment	4x IEEE 802.3at/af PoE+ 2 pairs PoE, PoE+ Positive (V+) : RJ-45 pin 1, 2. Negative (V-) : RJ-45 pin 3, 6. Data (1, 2, 3, 6, 4, 5, 7, 8)	

Network Connector	4 x RJ-45 10/100/1000Base-T, Auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex
	2x 100/1000Base-X SFP
Network Cable	UTP/STP Cat. 5e cable or above
	EIA/TIA-568 100-ohm (100meter)
	Fiber Cable (Multi-mode): 50/125um, 62.5/125um / Fiber Cable (Single-mode): 9/125um
Protocols	CSMA/CD
LED	Sysrem: Power 1 (Green), Power 2 (Green), Fault (Amber)
	SFP Slot: Link/Active (Green)
	PoE: ON (Green)
DIP SW	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
Reverse Polarity Protection	Supported
Overload Current Protection	Supported
Power Supply	Redundant Dual DC 24/48V (20~57VDC) input power (Removable Terminal Block) Built-in very high efficiency booster(94~97%) to rise up 52VDC for PoE output Regulated PoE output voltage (52VDC) to stabilize PoE device, and guarantee delivery PoE power distance to 100meter (Figure)
Power Consumption	
PoE Power Budget	Maximum PoE Output power budget 120W, 30W/port
Alarm Relay Contact	Relay outputs with current carrying capacity of 1A @24VDC
Removable Terminal Block	Provides 2 Redundant power, Alarm relay contact, 6Pin
Operating Temperature	-10 ~ 60°C (IGS-402S-4PH24)
	-40 ~ 75°C (IGS-402S-4PHE24)
Operating Humidity	5% to 95% (Non-condensing)
Dimensions	106 x 62.5 x 134.8mm (D x W x H)
Housing	Rugged Metal, IP30 Protection, Fanless
Weight	0.84kg
Installation Mounting	DIN Rail mounting or wall mounting (Optional accessories)
MTBF	736,988 Hours @25°C (MIL-HDBK-217)

Power Consumption table:

Input Voltage	IGS-402S-4PH24
24VDC	143.3W
48VDC	138.2W

(Include full load 120W PoE output)

Certification

EMC	CE
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE EN55022 Class A
EMS (Electromagnetic Susceptibility) Protection Level	EN61000-4-2 (ESD) Level 3, Criteria B
	EN61000-4-3 (RS) Level 3, Criteria A
	EN61000-4-4 (Burst) Level 3, Criteria A
	EN61000-4-5 (Surge) Level 3, Criteria B
	EN61000-4-6 (CS) Level 3, Criteria A
	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A
Railway Traffic	EN50121-4
Immunity for Heavy Industrial Environment	EN61000-6-2
Emission for Heavy Industrial Environment	EN61000-6-4
Safety	UL60950-1
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

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Dimensions

Side View   Front View   Rear View   DIN-Rail Kit View   Wall-Mount Kit View (Optional Accessory)

Ordering Information

Model Name	Total Port	RJ45 10/100/1000 Base-T(X)	SFP 100/1000 Base-X	PoE IEEE802.3 af/at	PoE Power Budget	Input Power Redundant	Certification Safety UL60950-1	Certification EN50121-4	Certification EN61000-6-2 EN61000-6-4	Certification CE FCC	Operating Temperature
IGS-402S-4PH24	6	4	2	4	120W	24/48VDC	V	V	V	V	-10~60°C
IGS-402S-4PHE24	6	4	2	4	120W	24/48VDC	V	V	V	V	-40~75°C

Optional Accessories

■ Wall Mount Kit

IND-WMK02	Wall Mount kit for Industrial product (Wide) (184 x 50mm)

■ Industrial SFP Transceiver

The ISFP series of industrial grade SFP modules have been fully tested with all CTC Union industrial grade Ethernet switches for guaranteed compatibility and performance. Best performance can be guaranteed, even in mission-critical applications. (Please see CTC Union's Industrial SFP datasheets for more items and detailed information.)

ISFP-M7000-85-D(E)	Industrial SFP GbE 1000Base-SX, M/M, 500 meter,wave length 850nm, 7.5dB, LC, DDMI, -10~70°C (-40~85°C)
ISFP-S7020-31-D(E)	Industrial SFP 1000Base-LX, S/M, 20km, wave length 1310nm, 15dB, LC, DDMI, -10~70°C (-40~85°C)
ISFP-T7T00-00-(E)	Industrial SFP 10/100/1000Base-T UTP 100meter, -10~70°C (-40~85°C)
ISFP-M5002-31-D(E)	Industrial SFP 155M 100Base-FX, MM, 2km, wave length 1310nm, 12dB, LC, DDMI, -10~70°C (-40~85°C)
ISFP-S5030-31-D(E)	Industrial SFP 155M 100Base-FX, SM, 30km, 1310nm, 19dB, LC, DDMI, -10~70°C (-40~85°C)

■ Industrial Power Supply

NDR-120-48	Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 120W, -20 ~ 70°C
NDR-240-48	Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 240W, -20 ~ 70°C (For more ref.)

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