IGS-600-4PH24 & IGS-402F-4PH24

● 6x GbE RJ45 with 4x PoE 120W, 24/48VDC

▶ 4x GbE RJ45 + 2x 1000Base Fiber (SC) with 4x PoE 120W, 24/48VDC



- UL60950-1, EN50121-4, EN61000-6-2, EN61000-6-4, CE, FCC certified
- 24/48VDC (20~57VDC) redundant dual input power 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



These models are 6 port unmanaged industrial grade Gigabit PoE switches with 4x 10/100/1000Base-T PoE 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, 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 (See figure 1). 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 support
- IP30 rugged metal housing and fanless
- Wide operating temperature -40 ~ 75°C ("E" model)

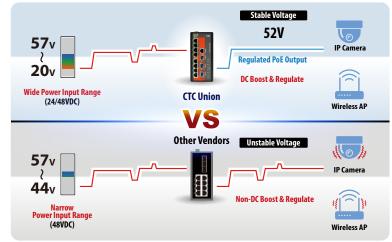
Specifications

IEEE Standard	IEEE 802.3 10Base-T Ethernet	DIP SW	DIP 1 (able power failure	alarm		
IEEE Standard	IEEE 802.3u 100Base-TX Fast Ethernet	DIF 3W			able power failure			
	IEEE 802.3ab 1000Base-T Gigabit Ethernet		DIP 2 ON : Disables broadcast storm protection					
	IEEE 802.3z 1000Base-X Gigabit Ethernet		(OFF : Enable broadcast storm protection				
	IEEE 802.3x Flow Control and Back Pressure		DIP 3 F	Reserve				
	IEEE 802.3af PoE (Power over Ethernet)		DIP 4 F	Reserve				
	IEEE 802.3at PoE ⁺ (Power over Ethernet enhancements)	Reverse Polarity Protection	Supporte	ed for Po	wer Input			
Switch Architecture	Back-plane (Switching Fabric): 12Gbps	Overload Current Protection	Supported IGS-402F-4PH24, IGS-600-4PH24:					
	Full wire-speed	Power Supply	Redunda	r-4PH2	4, IGS-600-4PH DC 24/48V (20~57	24: VDC) input		
Data Processing	Store and Forward		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 2)					
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		distance t	to 100m	eter (Figure 2)	i oz pomei		
MAC Address Table	8K	Power Consumption	Input Ve	oltage	IGS-402F-4PH24	IGS-600-4PH24		
Packet Buffer Size	1Mbits		24V[-	143.2W	142.9W		
PoE standard &	4x IEEE 802.3at/af PoE ⁺		48V[138.2W	139.6W		
RJ-45 Pin	2 pairs PoE, PoE+		(Include full load 120W PoE output)					
Assignment	Positive (V-) : RJ-45 pin 1, 2. Negative (V-) : RJ-45 pin 3, 6. Data (1,2,3,6,4,5,7,8)	PoE Power Budget	Maximum PoE Output power budget 120W, 30W/ per port					
Network Connector	4 x RJ-45(IGS-402F-4PH24) 6 x RJ-45 (IGS-600-4PH24) 10/100/1000Base-T auto negotiation speed, Auto	Alarm Relay Contact	Relay outputs with current carrying capacity of 1A @24VDC					
	MDI/MDI-X function, Full/Half duplex	Removable Terminal Block	Provides 2 Redundant power, Alarm relay contact, 6 Pin					
	2x1000Base-X Fiber connector: SC Muti Mode or Single Mode (IGS-402F-4PH24)	Operating	-10 ~ 60°C (IGS-402F-4PH24, IGS-600-4PH24)					
Network Cable			-40 ~ 75°C (IGS-402F-4PHE24, IGS-600-4PHE24)					
EIA/TIA-568 100-ohm (100meter)		Operating Humidity 5% to 95% (Non-condensing)						
	Fiber Cable (Multi-mode): 50/125um, 62.5/125um Fiber Cable (Single-mode): 9/125um	Dimensions	106 x 62.5 x 134.8mm (D X W X H) (IGS-402F-4PH24, IGS-600-4PH24)					
Protocols	CSMA/CD	I la contra m			,			
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber)	Housing Weight	Rugged Metal, IP30 Protection, Fanless 0.68kg (IGS-402F-4PH24)					
	Fiber Per port: Link/Active (Green)	2	0.84kg (IGS-600-4PH24)					
	Per Port PoE LED • Active : ON	Installation Mounting	DIN Rail mounting, or wall mounting (Optional accessories)					
	 Inactive : OFF Fault : Flash (Fault: Over Load, Short Circuit, Port failed at Startup) 	MTBF	635,099 Hours @25°C (IGS-402F-4PH24) 649,579 Hours @25°C (IGS-600-4PH24) (MIL-HDBK-217)					
		Warranty	5 years					
			- , ca. 5					

Certification		EMS	EN61000-4-2 (ESD) Level 3, Criteria B			
EMC	CE	(Electromagnetic Susceptibility)	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			
EMI		Protection Level				
(Electromagnetic	FCC Part 15 Subpart B Class A, CE EN55022 Class A					
Interference)	FN50121-4					
Railway Traffic Immunity for Heavy			EN61000-4-8 (PFMF, Magnetic Field) Field Strength 300A/m, Criteria A			
Industrial Environment	EN01000-0-2	Safety	UL60950-1			
Emission for Heavy		Shock	IEC 60068-2-27			
Industrial	EN61000-6-4	Freefall	IEC 60068-2-32			
Environment		Vibration	IEC 60068-2-6			

Application

Figure : High efficiency boost technology for PoE



- Regulated PoE output voltage (52VDC) to stabilize PoE device
- Guarantee delivery PoE power distance to 100 meters
- Wide range input power 24/48VDC (20~57VDC)

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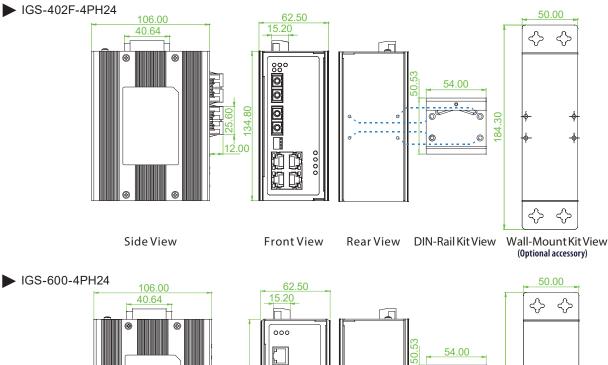
DIN-Rail Kit View

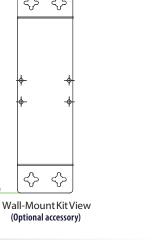
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Rear View

- Built-in very high efficiency (94~97%) to boost PoE output voltage







Industrial Unmanaged GbE PoE Switch IGS-600-4PH24 & IGS-402F-4PH24

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

Side View

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Front View

Ordering Information

	Total	RJ45 UTP Port	Fiber	Port	PoE Port		Input Power	Certification			- Operating	
Model Name	Port	10/100/1000 Base-T(X)	1000Base-X Base-X	100/1000 Base-X	IEEE 802.3at	IEEE 802.3at 4 Pairs PoE/60W	Power Budget	Redundant	Railway EN50121-4	Safety UL60950-1	CE, FCC EN61000-6-2 EN61000-6-4	Temperature
IGS-402F-4PH24	6	4	2 SC		4		120W	24/48VDC	V	V	V	-10~60°C
IGS-402F-4PHE24	6	4	2 SC		4		120W	24/48VDC	V	V	V	-40~75℃
IGS-600-4PH24	6	б			4		120W	24/48VDC	V	V	V	-10~60°C
IGS-600-4PHE24	6	б			4		120W	24/48VDC	V	V	V	-40~75℃

Fiber Connector Type Connectivity Distance

SC (IGS-402F-4PH24) SC001: 500m (SC, M/M) SC002: 2km (SC, M/M) SC020: 20km (SC, S/M) SC040: 40km (SC, S/M) SC020A: WDM 20km A type (TX: 1310nm) SC020B: WDM 20km B type (TX: 1550nm)

Package List

- One of the series device
 Protective caps for SFP ports
- Din Rail with screws
- Terminal block

Optional Accessories

Wall Mount Kit

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

Industrial SFP Transceiver

The ISFP series of industrial grade SFP modules have been fully tested with the series product for guaranteed compatibility and performance. The best performance can be guaranteed even in mission-critical applications. (Please see CTC Union's Industrial SFP datasheet for more details and more items.)

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