IGS-402CS-4PH

4x 10/100/1000Base-T RJ45 + 2x 100/1000M Base-X SFP with 4x PoE 120W, Compact size



- 4KV surge protection for PoE, UTP and SFP ports
- Wide operating temperature -40 ~ 75°C
- IP30 rugged metal housing and fanless



The IGS-402CS-4PH is 6 Ports unmanaged industrial grade Ethernet PoE switches with 4x 10/100/1000Base-T PoE+/PoE 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. 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)
- Maximum PoE output power budget 120W
- 48VDC (44~57VDC) redundant dual input power
- Supports DIP switch to set broadcast storm protection, SFP Auto/Force Mode, SFP 100M/1000M; RJ45 Auto/force mode, 10M/100M, Full/half.
- Supports flow control
- Provides broadcast storm protection
- DIN Rail mounting or wall mounting

Specifications

IEEE Standard	IEEE 802.3 10Base-T Ethernet			
	IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet			
	IEEE 802.3ab 1000Base-T Gbit/s Ethernet over twisted pair			
	IEEE 802.3z 1000Base-X Gigabit Ethernet over fiber-optic			
	IEEE 802.3x Flow Control and Back Pressure			
	IEEE 802.3at PoE+ (Power over Ethernet enhancements)			
	IEEE 802.3af PoE (Power over Ethernet)			
Switch Architecture	Back-plane (Switching Fabric): 12 Gbps			
Data Processing	Store and Forward			
Flow Control	IEEE 802.3x flow control, back pressure flow control			
MAC Address Table	4K			
Packet Buffer Size	1.75Mbit			
Max Frame Size	1522Bytes			
Jumbo Frame	10K Byte			
PoE standard	IEEE 802.3at/af			
PoE RJ-45 pin Assignment	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)			
Network Connector	4x RJ-45 for 10/100/1000Base-T Auto Negotiation Speed or Force Mode, Auto MDI/MDI-X function, Full/Half duplex			
	2x 100/1000Base-X SFP, Auto or Force Mode			
Network Cable	UTP/STP Cat. 5e cable or above			
	EIA/TIA-568 100-ohm (100meter)			
Network Cable	Fiber Cable (Multi-mode): 50/125um, 62.5/125um Fiber Cable (Single-mode): 9/125um			
Protocols	CSMA/CD			
LED	Per unit: Power 1 (Green), Power 2 (Green)			
	Per RJ-45 port: 10/100M Link/Act (Green) 1000M Link/Act (Amber)			

LED	Fiber Per port: 100 Link/Active (Green) 1000 Link/Active (Amber)				
	Per PoE Port LED (Green) • Active : ON • Inactive : OFF				
DIP SW	DIP 1	Broadcast Pro OFF : Fnable			
	DIP 2 Off: Fiber Auto On: Fiber Force Mode				
	DIP 3 SFP Fiber Speed OFF: Giga ON: 100M				
		RJ45 Mode	11. 100101		
	DIP 4		N· Force		
		RJ45 Speed	nv. i orec		
	DIP 5	OFF: 100M	N: 10M		
		RJ45 Duplex			
	DIP 6	OFF: Full ON: Half			
Reverse Polarity Protection	Supported for Power Input				
	Supported				
Overload Current Protection	Supported				
	Redundant o (Removable	dual 48VDC (44 terminal block ut is recommer tions))		
Protection	Redundant of (Removable (50~57V input	terminal block ut is recommer)		
Protection Power Supply	Redundant of (Removable (50~57V inpo 30W applica	terminal block ut is recommer tions) Total Power) nded for IEEE8 Device Power	302.3at in	
Protection Power Supply	Redundant of (Removable (50~57V inpo 30W applica Input Voltage 50 VDC	terminal block ut is recommer tions) Total Power Consumption	Device Power Consumption	Power Budget 120W	
Protection Power Supply Power Consumption	Redundant c (Removable (50~57V inpi 30W applica Input Voltage 50 VDC Maximum Po Per Port)	terminal block ut is recommentions) Total Power Consumption 130W DE Output pow	Device Power Consumption 8.2W /er budget 12	Power Budget 120W	
Protection Power Supply Power Consumption PoE Power Budget Removable Terminal Block Operating	Redundant c (Removable (50~57V inpr 30W applica Input Voltage 50 VDC Maximum Pc Per Port)	terminal block ut is recommentions) Total Power Consumption 130W DE Output pow	Device Power Consumption 8.2W ver budget 12 er, 4 Pin	Power Budget 120W	
Protection Power Supply Power Consumption PoE Power Budget Removable Terminal Block	Redundant c (Removable (50~57V inp) 30W applica Input Voltage 50 VDC Maximum Pc Per Port) Provides 2 Re	terminal block ut is recommer tions) Total Power Consumption 130W DE Output power Consumption DE Output power Consumption	Device Power Consumption 8.2W ver budget 12 er, 4 Pin	Power Budget 120W	
Protection Power Supply Power Consumption PoE Power Budget Removable Terminal Block Operating Temperature Operating Humidity	Redundant c (Removable (50~57V inp) 30W applica Input Voltage 50 VDC Maximum Porer Port) Provides 2 Ro -10 ~ 60°C (10° -40 ~ 75°C (10° 5% to 95% (N	terminal block ut is recommer tions) Total Power Consumption 130W DE Output power Consumption 130W DE Output power Consumption DE Output Po	Device Power Consumption 8.2W ver budget 12 er, 4 Pin	Power Budget 120W	
Protection Power Supply Power Consumption PoE Power Budget Removable Terminal Block Operating Temperature	Redundant c (Removable (50~57V inp) 30W applica Input Voltage 50 VDC Maximum Porer Port) Provides 2 Ro -10 ~ 60°C (10° -40 ~ 75°C (10° 5% to 95% (N	terminal block ut is recommer tions) Total Power Consumption 130W DE Output power Consumption 130W DE Output power Consumption DE Output po	Device Power Consumption 8.2W ver budget 12 er, 4 Pin	Power Budget 120W	
Protection Power Supply Power Consumption PoE Power Budget Removable Terminal Block Operating Temperature Operating Humidity	Redundant c (Removable (50~57V inp) 30W applica Input Voltage 50 VDC Maximum Poper Port) Provides 2 Ro -10 ~ 60°C (III -40 ~ 75°C (III 5% to 95% (N -40 ~ 85°C Rugged met	terminal block ut is recommer tions) Total Power Consumption 130W DE Output power dundant power du	Device Power Consumption 8.2W // yer budget 12 er, 4 Pin (E) (g) (ion and fanle	Power Budget 120W 0W (30W/	
Protection Power Supply Power Consumption PoE Power Budget Removable Terminal Block Operating Temperature Operating Humidity Storage Temperature Housing Dimensions	Redundant c (Removable (50~57V inp) 30W applica Input Voltage 50 VDC Maximum Poper Port) Provides 2 Re -10 ~ 60°C (III -40 ~ 75°C (III 5% to 95% (Now 140 ~ 85°C) Rugged met 106x 38.6x 14	terminal block ut is recommer tions) Total Power Consumption 130W DE Output power dundant power Consumption 65-402CS-4PH Non-condensing	Device Power Consumption 8.2W // yer budget 12 er, 4 Pin (E) (g) (ion and fanle	Power Budget 120W 0W (30W/	
Protection Power Supply Power Consumption PoE Power Budget Removable Terminal Block Operating Temperature Operating Humidity Storage Temperature Housing	Redundant c (Removable (50~57V inp) 30W applica Input Voltage 50 VDC Maximum Poper Port) Provides 2 Ro -10 ~ 60°C (II -40 ~ 75°C (II 5% to 95% (N -40 ~ 85°C Rugged met 106x 38.6x 14	terminal block ut is recommer tions) Total Power Consumption 130W DE Output Power Consumption 130W DE Out	Device Power Consumption 8.2W //er budget 12 er, 4 Pin E) ig) cion and fanle (H)	Power Budget 120W 0W (30W/	



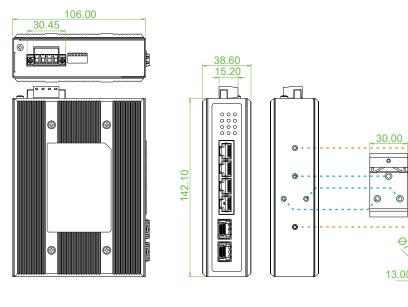
MTBF	745,955Hours (MIL-HDBK-217)
Warranty	5 years
Certification	
EMC	CE (EN55032, EN55035)
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE

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
4KV surge protection	Supported for PoE, UTP and SFP port
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Vibration	IEC 60068-2-6

30.00

62.10

Dimensions



Side View

Front View Rear View DIN-Ra

DIN-Rail Kit View Wall-Mount Kit View (Optional accessory)

184.00

Ordering Information

	Total	RJ45 UTP Port	Fiber Port	Ро	E Port	Input Power	Certification	Operating
Model Name	Port	10/100/1000 Base-T(X)	100/1000Base-X	IEEE802.3at	Power Budget	Redundant	CE,FCC	Temperature
IGS-402CS-4PH	6	4	2 SFP	4	120W	48VDC	V	-10~60°C
IGS-402CS-4PHE	6	4	2 SFP	4	120W	48VDC	V	-40~75°C

■ Package List

- IGS-402CS-4PH device
- Din Rail with screws
- Terminal block
- Protective caps for SFP ports

Optional Accessories

■ Wall Mount Kit

IND-WMK01 Wall Mount kit for Industrial product (184x30mm) (Narrow)

■ 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 data sheets for more items and detailed information.)

ISFP-M7000-85-(E)	Industrial SFP GbE 1000Base-SX, M/M, 500 meter,wave length 850nm, 7.5dB, LC, -10~70°C (-40~85°C)
ISFP-S7020-31-(E)	Industrial SFP 1000Base-LX, S/M, 20km, wave length 1310nm, 15dB, LC, -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℃ (-40~85℃)

■ Industrial Power Supply

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NDR-120-48	Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 120W, -20 ~ +70°C (For IGS-402CS-4PH)
NDR-240-48	Industrial Power Input 90 ~ 264VAC/127 ~ 370VDC Output 48VDC 240W -20 ~ +70°C (For more ref.)