EN50121-4 EN61000-6-2 EN61000-6-4

Industrial Unmanaged FE PoE Switch

NEW

IFS-802GS-8PH

8x 10/100Base–TX+ 2x 1000Base–X SFP Slot with 8x PoE+ Switch (240 Watts)

The IFS-802GS-8PH is 10 Port unmanaged industrial grade Ethernet PoE switches with 8x 10/100Base-TX 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

- 8x 10/100Base-TX UTP and 2x1000Base-X SFP
- Provides 8-port IEEE802.3at/af PoE output (30W/Per Port)
- Maximum PoE output power budget 240W
- 48VDC (44~57VDC) redundant dual input power
- Wide operating temperature -40 ~ 75°C ("E" model)
- Supports power failure alarm message by relay
- Supports flow control
- IP30 rugged metal housing and fanless
- DIN Rail mounting or wall mounting
- CE, FCC, railway EN50121-4 certification
- Industrial grade EMS, EMI, EN61000-6-2, EN61000-6-4 certification

Specifications

IEEE Standard	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX Fast Ethernet
	IEEE 802.3z 1000Base-X Gigabit Ethernet
	IEEE 802.3x Flow Control and Back Pressure
	IEEE 802.3at PoE+ (Power over Ethernet enhancements)
	IEEE802.3af PoE (Power over Ethernet)
Switch Architecture	Back-plane (Switching Fabric): 5.6Gbps
Data Processing	Store and Forward
Flow Control	IEEE 802.3x flow control, back pressure flow control
MAC Address Table	8K
Packet Buffer Size	1Mbits
Max Frame Size	1632 Bytes
PoE standard	IEEE 802.3at/af
PoE RJ-45 pin Assignment	RJ-45 port #1~# 8 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)
Network Connector	8x RJ-45 for 10/100Base-TX auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex
	2x 1000Base-X SFP
Network Cable	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
Protocols	CSMA/CD
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber)
	Per RJ-45 port : Link/Active (Green) Speed 100 (Yellow)
	Fiber Per port: Link/Active (Green)
	Per PoE Port LED : • Active : ON • Inactive : OFF
DIP SW	DIP 1 ON : Disable power failure alarm OFF : Enable power failure alarm
Reserve Polarity Protection	Present

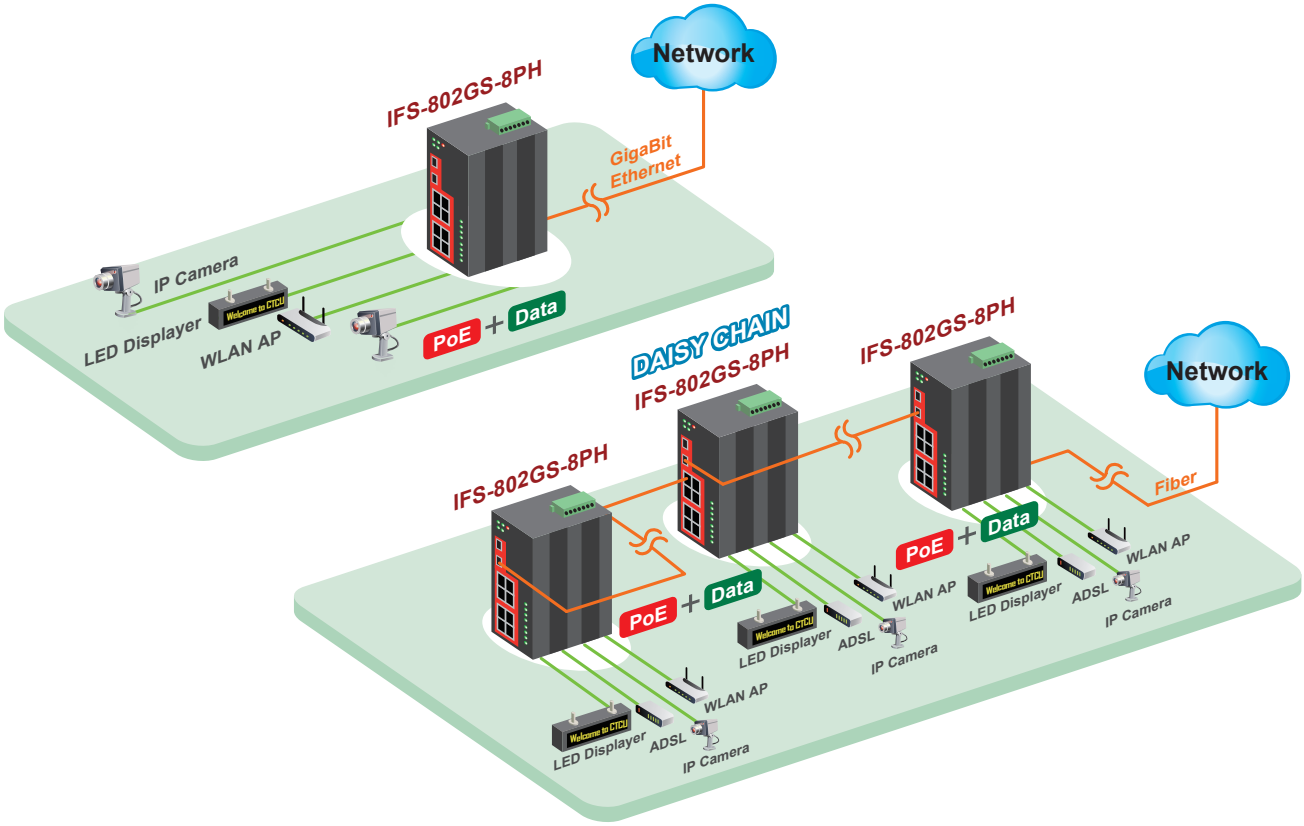
Overload Current Protection	Present
Power Supply	Redundant dual 48VDC (44~57VDC) input power (Removable terminal block) (50~57V input is recommended for IEEE802.3at in 30W applications)
Power Consumption	Input Voltage: 48 VDC; Total Power Consumption: 251W; Device Power Consumption: 5.2W; PoE Power Budget: 240W
PoE Power Budget	Maximum PoE Output power budget 240W (30W/ Per Port)
Alarm Relay Contact	Relay outputs with current carrying capacity of 1A @24VDC
Removable Terminal Block	Provides 2 Redundant power, Alarm relay contact, 6 Pin
Operating Temperature	-10 ~ 60°C (IFS-802GS-8PH)
	-40 ~ 75°C (IFS-802GS-8PHE)
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85°C
Housing	Rugged metal, IP30 Protection and fanless
Dimensions	106 x 72 x 152 mm (D X W X H)
Weight	765g
Installation Mounting	DIN Rail mounting or wall mounting
MTBF	400,469Hours (MIL-HDBK-217)
Warranty	5 years
Certification	
EMC	CE
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A,CE EN55022 Class A
Railway Traffic	EN50121-4
Immunity for Heavy Industrial Environment	EN61000-6-2
Emission for Heavy Industrial Environment	EN61000-6-4

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

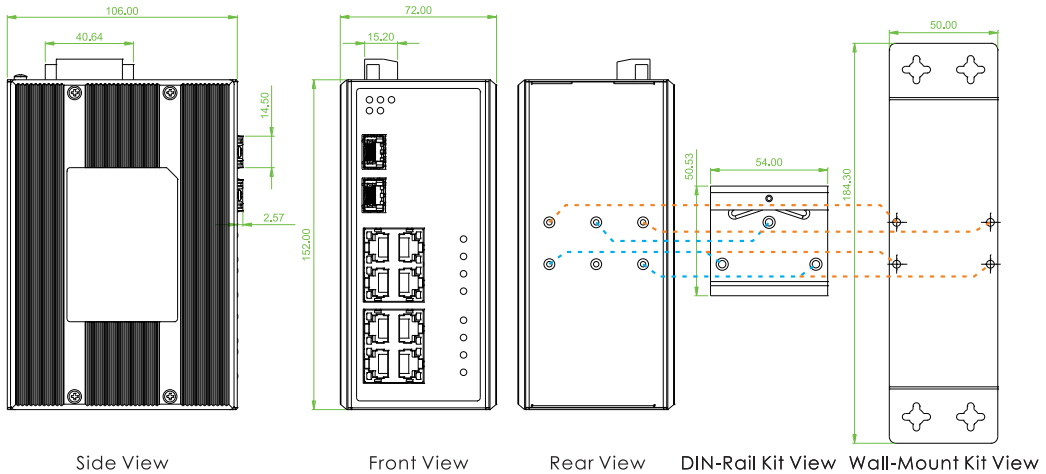
Safety	UL60950-1 (Pending)
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Application

Figure : IFS-802GS-8PH PoE Gigabit Ethernet Switch Transmission



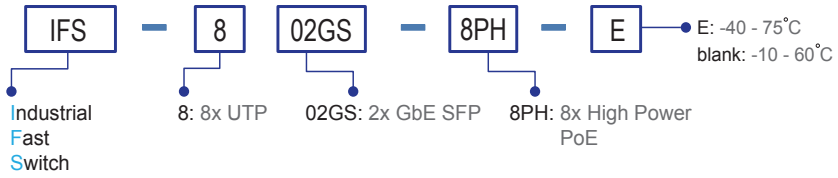
Dimensions



Ordering Information

Model Name	Port	UTP Port	Fiber Port	PoE Port	Certification				Operating Temperture
		10/100 Base-T(X)	1000 Base-X	IEEE802.3at	Railway EN50121-4	EN61000-6-2 EN61000-6-4	CE	FCC	
IFS-802GS-8PH	10	8	2 SFP	8	V	V	V	V	-10~60 C
IFS-802GS-8PHE	10	8	2 SFP	8	V	V	V	V	-40~75 C

Model Naming Rule



Optional Accessories

Industrial Power Supply

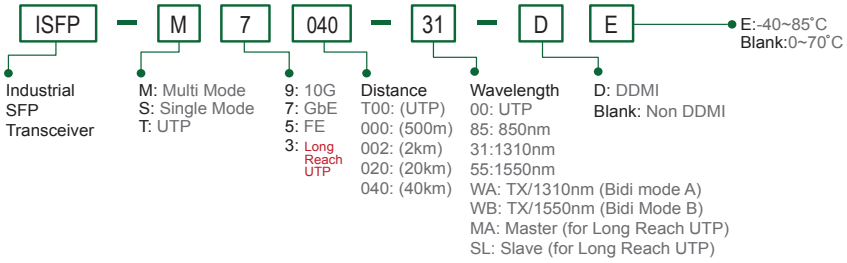
DRP-240-48	Industrial Power, Input 85 ~ 264VAC, Output 48VDC, 240W, -10 ~ +70℃

Industrial SFP Transceiver

(The ISFP series of industrial grade SFP modules have been fully tested with IFS-802GS-8PH 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-(E)	Industrial SFP GbE 1000Base-SX, M/M, 500 meter,wave length 850nm, 7.5dB, LC, -10~70℃ (-40~85℃)
ISFP-S7020-31-(E)	Industrial SFP 1000Base-LX, S/M, 20km, wave length 1310nm, 15dB, LC, -10~70℃ (-40~85℃)
ISFP-T7T00-00-(E)	Industrial SFP 1000Base-T UTP 100meter, -10~70℃ (-40~85℃)
ISFP-T3T00-MA-(E)	Industrial SFP 100Mbps, long reach UTP (2 wire) (500meter) , Master, -10~70℃ (-40~85℃)
ISFP-T3T00-SL-(E)	Industrial SFP 100Mbps, long reach UTP (2 wire) (500meter) , Slave, -10~70℃ (-40~85℃)

SFP Naming Rule



Package List

- IFS-802GS-8PH device
- Protective caps for SFP ports
- Quickly installation guide
- Din Rail with screws
- Wall mount bracket with screws
- Terminal block