

# IGS-402S

## 4x 10/100/1000Base-T+ 2x 100/1000Base-X SFP Slot Gigabit Ethernet Switch



IGS-402S models are 4 port 10/100/1000Base-T Ethernet non-managed Gigabit switches, with 2x 1000Base-X SFP 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

- 12/24/48VDC redundant dual input power design
- 4-Port 1000Base-T RJ-45 with 2 Fiber Gigabit Ethernet
- Wide operating temperature -40 ~ 75°C (IGS-402S-E)
- Provides broadcast storm protection
- Supports DIP SW for alarm setting and broadcast storm protection
- Supports power failure alarm message by relay
- Supports flow control
- Support dual speed option for SFP
- UL60950-1, CE, FCC, 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	<b>Power Consumption</b> Max 7.83W
<b>Switch Architecture</b>	Back-plane (Switching Fabric): 12Gbps	<b>Alarm Relay Contact</b> Relay outputs with current carrying capacity of 1 A @24VDC
<b>Data Processing</b>	Store and Forward	<b>Removable Terminal Block</b> Provide 2 redundant power, alarm relay contact, 6 Pin
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control	<b>Operating Temperature</b> -10 ~ 60°C (IGS-402S) -40 ~75°C (IGS-402S-E)
<b>Provides Broadcast Storm Protection</b>	Present, Enable / Disable set by DIP sw	<b>Operating Humidity</b> 5% to 95% (Non-condensing)
<b>Jumbo Frame</b>	10K Bytes	<b>Storage Temperature</b> -40 ~ 85°C
<b>MAC Address Table</b>	8K	<b>Housing</b> Rugged Metal, IP30 Protection , Fan-less
<b>Packet Buffer Size</b>	1Mbits	<b>Dimensions</b> 106 x 62.5 x 134.8mm (D X W X H)
<b>Network Connector</b>	4 x RJ-45 10/100/1000Base-T auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex 2 SFP 100/1000 Base-X dual mode slot	<b>Weight</b> 0.84kg
<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>Installation Mounting</b> DIN Rail mounting or wall mounting
<b>Protocols</b>	CSMA/CD	<b>EMC/EMS</b> CE, FCC
<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)	<b>EMI</b> FCC Part 15 Subpart B Class A, CE EN 55022 Class A EN61000-6-4 – Emission for industrial environment
<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>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>Reserve Polarity Protection</b>	Present	<b>Safety</b> UL60950-1
<b>Overload Current Protection</b>	Present	<b>Rail Traffic</b> EN 50121-4
<b>Power Supply</b>	Redundant Dual DC 12/24/48V (9.6~60VDC) Input power (Removable Terminal Block) Provide DC Power JACK adapter cable for external power supply	<b>Shock</b> IEC 60068-2-27 <b>Freefall</b> IEC 60068-2-32 <b>Vibration</b> IEC 60068-2-6 <b>MTBF</b> 438,031 Hours <b>Warranty</b> 5 years

## Application

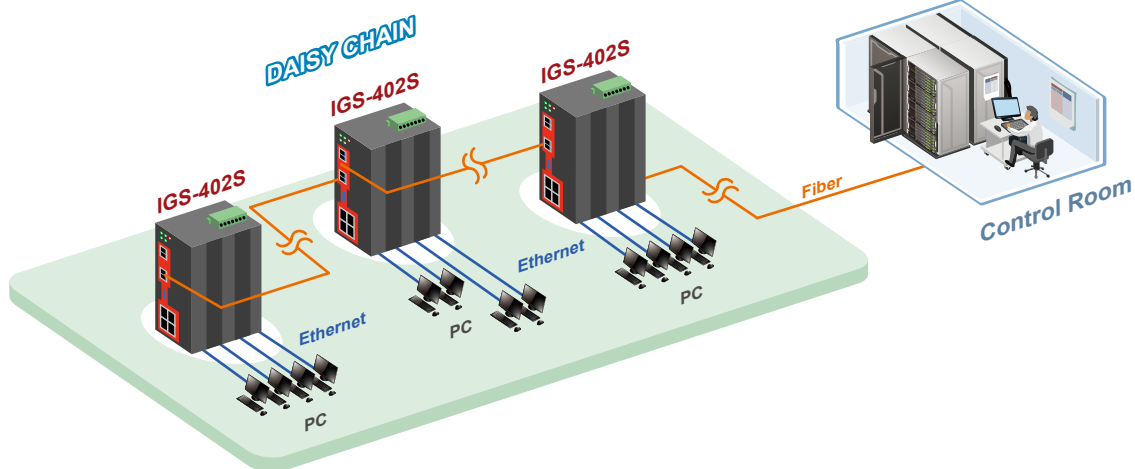
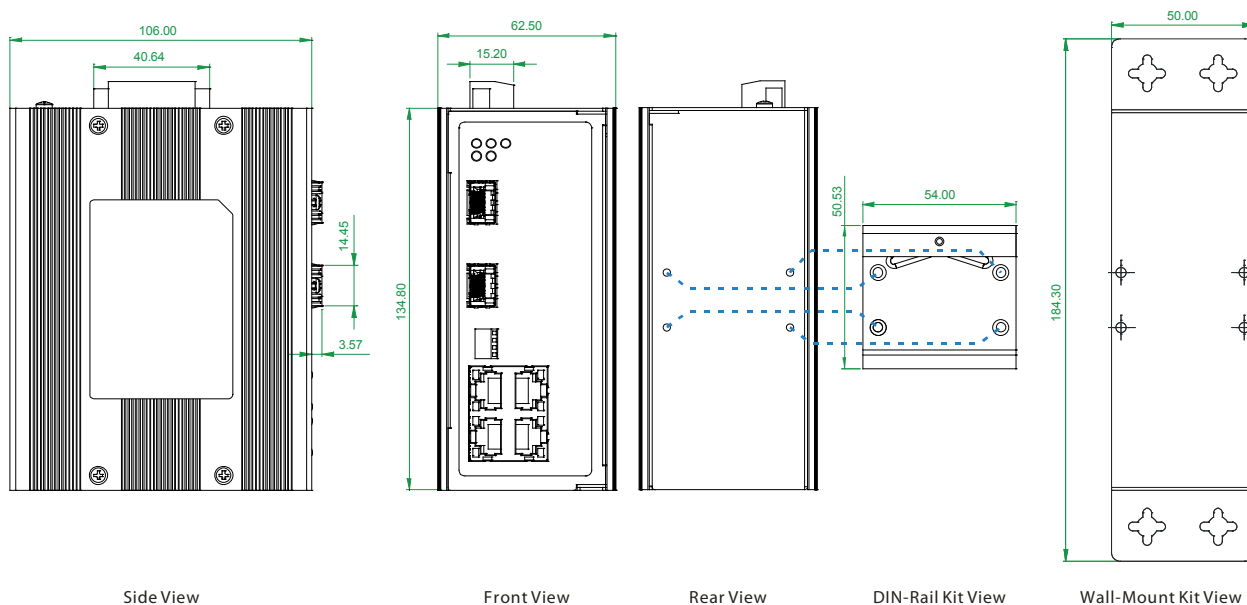


Figure : IGS-402S Gigabit Ethernet Switch Transmission with Daisy Chain

## Dimensions

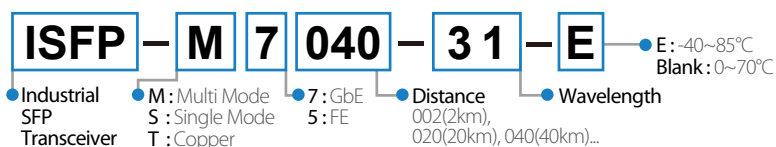


## Ordering Information

Model Name	Description
IGS-402S	4-Port 10/100/1000Base-T + 2-Port 100/1000Base SFP Slot Gigabit Ethernet Switch (-10 ~ 60°C)
IGS-402S-E	4-Port 10/100/1000Base-T + 2-Port 100/1000Base SFP Slot Gigabit Ethernet Switch (-40 ~ 75°C)

### Accessories

DR-4524	Industrial Power, Input 85 ~ 264VAC, Output 24VDC, 48W, -10 ~ +50°C
MDR-40-24	Industrial Power, Input 85 ~ 264VAC, Output 24VDC, 40W, -20 ~ +70°C
SFP Transceiver	Compatible, Reliable, 5-year Warranty



Temperature  
**IGS - 402S - □**  
 Example: IGS - 402S - E