This series 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. 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.
Industrial Unmanaged GbE PoE Switch

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

**Operating Temperature**
- -10 ~ 60°C (IGS-402S-4PH24, IGS-600-4PH24)
- -40 ~ 75°C (IGS-402S-4PHE24, IGS-600-4PHE24)

**Operating Humidity** 5% to 95% (Non-condensing)

**Storage Temperature** -40 ~ 85°C

**Housing** Rugged metal, IP30 Protection and fanless

**Dimensions** 106 x 62.5 x 134.8mm (D x W x H)

**Weight**
- 0.84kg (IGS-402S-4PH24)
- 0.84kg (IGS-600-4PH24)

**Installation**
- DIN Rail mounting or wall mounting

**MTBF**
- 736,988 Hours @25°C  (IGS-402S-4PH24)
- 649,579 Hours @25°C  (IGS-600-4PH24)
  (MIL-HDBK-217)

**Warranty** 5 years

**Certification**
- EMC
- UL60950-1
- CE
- EN55022 Class A
- FCC Part 15 Subpart B Class A
- EN60601-1
- EN61000-4-2 (ESD) Level 3, Criteria B
- EN61000-4-3 (RF) 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
- EN61000-4-8

**Safety**
- IEC 60068-2-27
- IEC 60068-2-32
- IEC 60068-2-6

**Application**

![Figure 1: PoE Gigabit Ethernet Switch Transmission](image1)

![Figure 2: High efficiency boost technology for PoE](image2)

- Regulated PoE output voltage (55VDC) to stabilize PoE device
- Guarantee delivery PoE power distance to 100 meter
- Wide range input power 24/48VDC (20~57VDC)
- Built-in very high efficiency (94~97%) to boost PoE output voltage
Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.

Industrial Unmanaged GbE PoE Switch

**Dimensions**

- **IGS-402S-4PH24**

- **IGS-402F-4PH24**

- **IGS-600-4PH24**
Industrial Unmanaged GbE PoE Switch

Ordering Information

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Port</th>
<th>UTP Port</th>
<th>Fiber Port</th>
<th>Certification</th>
<th>Operating Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>IGS-402S-4PH24</td>
<td>6</td>
<td>4</td>
<td>—</td>
<td>2 SFP</td>
<td>-10~60 °C</td>
</tr>
<tr>
<td>IGS-402S-4PHE24</td>
<td>6</td>
<td>4</td>
<td>—</td>
<td>2 SFP</td>
<td>-40~75 °C</td>
</tr>
<tr>
<td>IGS-402F-4PH24</td>
<td>6</td>
<td>4</td>
<td>2 SC</td>
<td>—</td>
<td>-10~60 °C</td>
</tr>
<tr>
<td>IGS-402F-4PHE24</td>
<td>6</td>
<td>4</td>
<td>2 SC</td>
<td>—</td>
<td>-40~75 °C</td>
</tr>
<tr>
<td>IGS-600-4PH24</td>
<td>6</td>
<td>6</td>
<td>—</td>
<td>—</td>
<td>-10~60 °C</td>
</tr>
<tr>
<td>IGS-600-4PHE24</td>
<td>6</td>
<td>6</td>
<td>—</td>
<td>—</td>
<td>-40~75 °C</td>
</tr>
</tbody>
</table>

Fiber Connector Type | Connectivity Distance
---|---
SC | 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)

Optional Accessories

**Industrial SFP Transceiver**

(The ISFP series of industrial grade SFP modules have been fully tested with the IGS-402S-4PH24 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.)

<table>
<thead>
<tr>
<th>SFP Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISFP-M70000-8S-D(E)</td>
<td>Industrial SFP GbE 1000Base-SX, M/M, 500meterswavelength 850nm, 7.5dB, LC, DDMI, -10<del>70°C (-40</del>85°C)</td>
</tr>
<tr>
<td>ISFP-S7020-31-D(E)</td>
<td>Industrial SFP 1000Base-LX, S/M, 20km, wavelength 1310nm, 15dB, LC, DDMI, -10<del>70°C (-40</del>85°C)</td>
</tr>
<tr>
<td>ISFP-T7T00-00-D(E)</td>
<td>Industrial SFP 1000Base-T UTP 100meter, -10<del>70°C (-40</del>85°C)</td>
</tr>
<tr>
<td>ISFP-M5002-31-D(E)</td>
<td>Industrial SFP 155M 100Base-FX, M/M, 2km, wavelength 1310nm, 12dB, LC, DDMI, -10<del>70°C (-40</del>85°C)</td>
</tr>
<tr>
<td>ISFP-S5030-31-D(E)</td>
<td>Industrial SFP 155M 100Base-FX, S/M, 30km, 1310nm, 13dB, LC, DDMI, -10<del>70°C (-40</del>85°C)</td>
</tr>
<tr>
<td>ISFP-T3T00-MA-D(E)</td>
<td>Industrial SFP 100Mbps, long reach UTP (2 wire) (500meter) , Master, -10<del>70°C (-40</del>85°C)</td>
</tr>
<tr>
<td>ISFP-T3T00-SL-D(E)</td>
<td>Industrial SFP 100Mbps, long reach UTP (2 wire) (500meter) , Slave, -10<del>70°C (-40</del>85°C)</td>
</tr>
</tbody>
</table>

**Package List**

- One device of the series
- Protective caps for SFP ports (for IGS-402S-4PH24)
- Quickly installation guide
- Din Rail with screws
- Wall mount bracket with screws
- Terminal block

**Model Naming Rule**

IGS 402S = Industrial Gigabit Switch
4: 4x UTP
02S: 2x SFP
00: 0x Fiber

4PH24: 4x High Power PoE 24V Booster -40~75°C
4PHE24: 4x High Power PoE 24V Booster -10~60°C

**Optional Accessories**

**ISFP-M70000-8S-D(E)**
Industrial SFP GbE 1000Base-SX, M/M, 500 meters wavelength 850nm, 7.5dB, LC, DDMI, -10~70°C (-40~85°C)

**ISFP-S7020-31-D(E)**
Industrial SFP 1000Base-LX, S/M, 20km, wavelength 1310nm, 15dB, LC, DDMI, -10~70°C (-40~85°C)

**ISFP-T7T00-00-D(E)**
Industrial SFP 1000Base-T UTP 100meter, -10~70°C (-40~85°C)

**ISFP-M5002-31-D(E)**
Industrial SFP 155M 100Base-FX, M/M, 2km, wavelength 1310nm, 12dB, LC, DDMI, -10~70°C (-40~85°C)

**ISFP-S5030-31-D(E)**
Industrial SFP 155M 100Base-FX, S/M, 30km, 1310nm, 13dB, LC, DDMI, -10~70°C (-40~85°C)

**ISFP-T3T00-MA-D(E)**
Industrial SFP 100Mbps, long reach UTP (2 wire) (500meter), Master, -10~70°C (-40~85°C)

**ISFP-T3T00-SL-D(E)**
Industrial SFP 100Mbps, long reach UTP (2 wire) (500meter), Slave, -10~70°C (-40~85°C)