

IGS-500 & IGS-800

◀ 5x GbE RJ45

▶ 8x GbE RJ45



- Provides a DIP-Switch to set functions
- Supports power failure alarm message by relay
- 12/24/48VDC (9.6~60VDC) redundant dual input power
- IP30, rugged metal housing, fanless



These models are 8/5-port 10/100/1000Base-T unmanaged GbE switches. 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 (See Figure). 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

- Supports flow control
- Jumbo frame support
- Supports IEEE 802.3az Green Ethernet
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports DIN Rail or wall mounting installation
- Wide operating temperature -40~75°C (-E model)

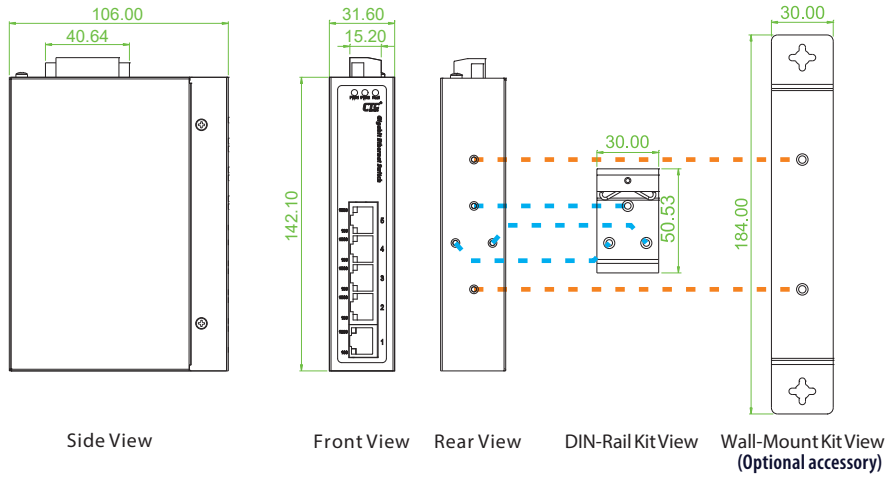
Specifications

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX, 100Base-FX, Fast Ethernet IEEE 802.3ab 1000Base-T Gbit/s Ethernet over twisted pair IEEE 802.3x Flow Control IEEE 802.3z 1000Base-X Gbit/s Ethernet over Fiber-Optic
Switch Architecture	Back-plane (Switching Fabric): 10Gbps (IGS-500), 16Gbps (IGS-800) Full wire-speed
Data Processing	Store and Forward
Flow Control	IEEE 802.3x flow control for Full duplex, back pressure for half duplex
Provides Broadcast Storm Protection	Supported
Jumbo Frame	9.6KBytes
MAC Address Table	8K
Packet Buffer Size	128K Byte (IGS-500) 512K Byte (IGS-800)
Network Connector	5 x 10/100/1000Base-T RJ-45 (IGS-500) 8 x 10/100/1000Base-T RJ-45 (IGS-800) 10/100/1000Base-TX auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex
Network Cable	UTP/STP Cat. 5 cable or above EIA/TIA-568 100-ohm (100meter)
Protocols	CSMA/CD
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber) Per RJ45: Link/Act 1000 (Yellow), Link/Act 10/100 (Green) Fiber LED: Link/Act (Green)
DIP SW	ON : Disable DIP 1 OFF : Enable power failure alarm DIP 2 ON : Disables broadcast storm protection OFF : Enable broadcast storm protection Green Ethernet DIP 3 ON : Disable Green Ethernet OFF : Enable 802.3az Green Ethernet
Reverse Polarity Protection	Supported for Power Input
Overload Current Protection	Supported
Power Supply	Redundant Dual DC 12/24/48V (9.6~60VDC), or AC 24V (18~36VAC) Input power (Removable Terminal Block)

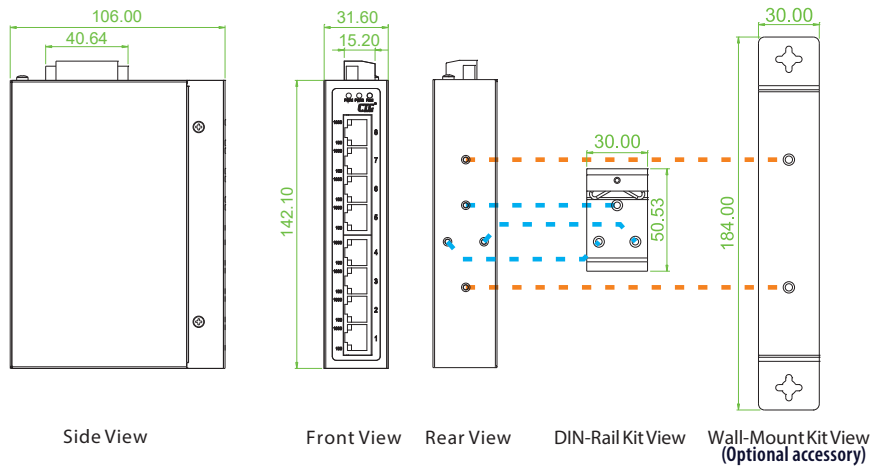
Power Consumption	<table border="1"> <thead> <tr> <th>Input</th> <th>IGS-500</th> <th>IGS-800</th> </tr> </thead> <tbody> <tr> <td>12VDC</td> <td>3.3W</td> <td>7.0W</td> </tr> <tr> <td>24VDC</td> <td>3.4W</td> <td>7.0W</td> </tr> <tr> <td>48VDC</td> <td>4.8W</td> <td>8.7W</td> </tr> </tbody> </table>	Input	IGS-500	IGS-800	12VDC	3.3W	7.0W	24VDC	3.4W	7.0W	48VDC	4.8W	8.7W
Input	IGS-500	IGS-800											
12VDC	3.3W	7.0W											
24VDC	3.4W	7.0W											
48VDC	4.8W	8.7W											
Alarm Relay Contact	Relay outputs with current carrying capacity of 1 A @24VDC, NC												
Removable Terminal Block	Provides 2 redundant power, alarm relay contact, 6 Pin												
Operating Temperature	-10°C~60°C (IGS-500, IGS-800) -40°C~75°C (IGS-500-E, IGS-800-E)												
Operating Humidity	5% to 95% (Non-condensing)												
Storage Temperature	-40 ~ 85°C												
Housing	Rugged Metal, IP30Protection and fanless												
Dimensions	106 x 31.6 x 142 mm (D x W x H)												
Weight	0.41kg (IGS-500), 0.44kg (IGS-800)												
Installation Mounting	DIN Rail mounting, or wall mounting (Optional)												
MTBF	1,154,166hrs (IGS-500) 747,984hrs (IGS-800) (MIL-HDBK-217)												
Warranty	5 years												
Certification													
EMC/EMS	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												
Shock	IEC 60068-2-27												
Freefall	IEC 60068-2-32												
Vibration	IEC 60068-2-6												

Dimensions

IGS-500



IGS-800



Ordering Information

Model Name	Total Port	RJ45 UTP Port		Fiber Port	Power Input	Certification		Operating Temperature
		10/100/1000 Base-T		100/1000Base-X	Redundant	CE	FCC	
IGS-500	5	5			12/24/48VDC	V	V	-10~60°C
IGS-500-E	5	5			12/24/48VDC	V	V	-40~75°C
IGS-800	8	8			12/24/48VDC	V	V	-10~60°C
IGS-800-E	8	8			12/24/48VDC	V	V	-40~75°C

Package List

- One device of the series
- Terminal block
- Din Rail with screws

Optional Accessories

Wall Mount Kit

IND-WMK01	Wall Mount kit for Industrial product (184 x 30mm)
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Industrial Power Supply

MDR-20-24	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 24VDC, 24W, -20 ~ +70°C
MDR-40-48	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 48VDC, 40W, -20 ~ +70°C