

IS-DG102-F

Quick Installation Guide

FCC MARKING

This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

CE MARKING

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE, the essential protection requirement of Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Company has an on-going policy of upgrading its products and it may be possible that information in this document is not up-to-date. Please check with your local distributors for the latest information. No part of this document can be copied or reproduced in any form without written consent from the company.

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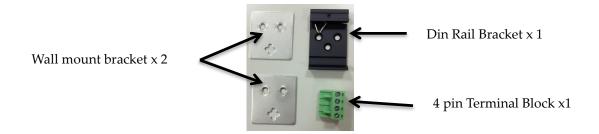
Key Features

- Rugged design aluminum enclosure 103.5x32x81.5mm (LxWxD)
- > Supports 18V-36VAC/12V-60VDC
- > Supports Link Fault Pass through (LFP) function
- > Supports switch model and converter mode.
- Support SFP fiber speed 100M or 1000M dual mode
- > Surge protection diodes on power input.
- > ESD protection diodes on RJ-45 port
- > Provides Far End Fault function on FX port.
- Provides increased Noise Immunity
- Environmental specification -40°C to 75°C

This mini, rugged Industrial Gigabit media converter is designed for Security, Transportation and Telco application to expand your network distances. It can be powered by wide range of VAC, VDC or external DC power adapter. With its multi-purpose design, it can also be used for Din-Rail or wall-mounted. It is an ideal unit for IP surveillance, traffic monitoring and Security application in critical environment. It can tolerate -40°C to 75°C in harsh environment to perform a reliable network.

Installation package

This unit can be installed by din-rail mounted or wall-mounted. Din-rail brackets and wall-mounted bracket are included.

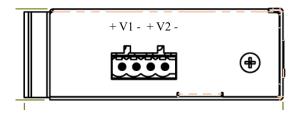


Power connection

This unit provides 4 pin terminal block. It can be operated using either VAC or VDC power source. The VDC power range is from 12VDC to 56VDC, and the VAC power range is from 18VAC to 36VAC. Always Make sure your input voltage is within this supported voltage range.

WARNING - any exceeded input voltage will not make this unit function and may damage this unit.

To make power connection – Follow the printed polarity for V+, V-, Ground. Connect positive wire to V+, connect negative wire to V-, also connect neutral wire to ground.



Connecting procedure

STEP 1-

Take out 4 pin terminal block located in the included mounting kit package.

STEP 2-

connect power wire to 4 pin terminal block. V1+, V1- or redundant power wire to V2 + V2-. and Ground STEP 3 –

Plug into terminal block socket shown above. Polarity needs to match the V+ and V-

WARNING -- Always SHUTS OFF power source to connect power wire.

Dip switch function

This unit is equipped with 4 pin dip-switch located on the front panel. Adjusting the dip-switch setting will change the default function of this unit. All the dip-switch settings are set to manufacturer default as OFF

Table shown below is the features of these dip-switch function. You may change the dip-switch setting to your desired environment.

OFF



ON

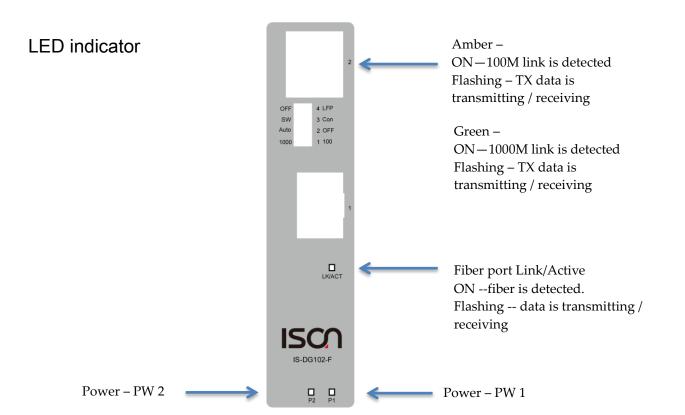
Dip 1 to select SFP speed	OFF	1000M
	ON	100M
Dip 2 to select Auto-nego in SFP	OFF	AUTO
	ON	OFF
Dip 3 to select Switch/Converter mode	OFF	SW
	ON	Con.
Dip 4 to select LFP (Link Fault Pass through)	OFF	OFF
	ON	LFP

Default OFF to enable 1000M SFP speed

Default OFF to enable SFP Autonegotiation mode

Default OFF to enable Switch Mode.

Default OFF to disable LFP function



Specification:

IEEE Standard	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	
Data Processing	Store and Forward	
Flow Control	IEEE 802.3x Flow Control and Back Pressure	
Architecture	Full wire speed conversion	
	Auto negotiation	
	Full/Half duplex	
	Auto MDI/MDI-X function	
	Supports LFP (Link Fault Pass Through) function	
	Supports 9K bytes jumbo frame	
Packet Buffer Size	1M	
Jumbo Frame	9KB	
Network Connector	Twisted Pair:	
	10/100/1000 Base-T(X) RJ-45 Distance 100 Meter	
	Optical Fiber: SFP pluggable fiber, 100M or 1000M by adjustable dip	
	switch	
	Power:	
	P1(Power 1) - Green	
LED Indicators	P2(Power 2) - Green	
	Twisted Pair:	
	1000M/Link/Act - Green	
	100M Link/Act - Yellow	
	Optical Fiber: Link/Act - Green	
	Set LFP (Link Fault Pass Through) : Enable / Disable	
DID Cuitab Function	Set Switch mode / Pass Through mode.	
DIP Switch Function	Set SFP speed 100M or 1000M	
	Set Enable or Disable SFP Auto-Negotiation	
Power Protection	Surge protection diodes on power input	
	Reverse polarity protection on power input	
	Overload current protection	
Power Input	Redundant Power 1 and Power 2	
	18V-36VAC or 12V-56VDC	

Power Consumption	Max Power: 3 Watts	
Removable Terminal Block	4 pin contact terminal block for power input Wire range: 0.34mm^2 to 2.5mm^2 Solid wire (AWG): 12-24/14-22 Stranded wire(AWG): 12-24/14-22 Wire Strip length: 7-8mm Torque: 5lb-ln/0.5Nm/0.56Nm	
Operating Temperature	-40°C~75°C	
Operating Humidity	5% to 95% (Non-condensing)	
Storage Temperature	-40°C~85°C	
Housing Design	IP40 Design, high graded Aluminum	
Case Dimension (LxWxD)	103.5mmx32mmx81.5mm (LxWxD)	
Installation	DIN Rail mounted Panel Mounted	
Certifications:		
EN55022/24	ITE equipment	
EN50155	Railways Applications Electronic Equipment used on Rolling Stock	
EN55011	Industrial, Scientific and Medical (ISM) equipment	
EN50121-3-2	Railway Applications – Electromagnetic Compatibility – Part 3-2 Rolling Stock - Apparatus	
EN50121-4	Railway Applications – Electromagnetic Compatibility – Part4 Emissions and Immunity of the Signaling and Telecommunications Apparatus	
Safety	IEC EN60950-1	
EMC/EMS	CE, FCC	
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A	
EN 50155 / EN 60068-2-6	Vibration	
EN 50155 / EN 60068-2-27	Shock	
EN 50155 / EN 60068-2-32	Free Fall	
Traffic Control	NEMA TS2 compliant	

Housing Dimension

