IS-DG102 Series

Rugged Industrial Media Converter, 10/100/1000BASE-TX to 100/1000BASE-FX

The IS-DG102 Series is a true mini and rugged Fast Ethernet to fiber Industrial media converter designed for where critical but space-limited applications, and can be powered by wide range of AC, DC or external DC power adapter. With its compact and easy to use design, the IS-DF102 Series can also be installed on Din-Rail or be wall-mounted. As the ideal unit for IP surveillance, traffic monitoring and Security application, the IS-DF102 Series also works great in extreme environments with its operating temperature ranges from -40°C to 75°C for extending an existing network.

Key features

- ▶ 1 10/100/1000 Mb RJ45, 1 100/1000FX(Multi/Single-mode)
- ▶ Rugged design, compact enclosure
- ▶ Wide range power input, 18V-36VAC/9V-56VDC
- ▶ Link Fault Pass through (LFP) function
- ▶ Supports switch model and converter mode.
- ▶ Surge protection diodes on power input.
- ▶ Support Far End Fault function on FX port.
- ▶ Provides increased Noise Immunity
- ▶ -40°C to 75°C operating temperature

Specification

Ethernet

Operating Mode	Store and Forward, L2 wire-speed/non-blocking switching engine
MAC addresses	1K
Packet Buffer	1 Mbits
Jumbo frame	9K

RJ45 Copper ports

Speed	10/100/1000 Mbps
MDI/MDIX Auto-crossover	Support straight or cross wired cables
Auto-negotiation/Duplex	10/100/1000 Mbps speed auto-negotiation; Full & Half Duplex

Fiber Ports

Port Types supported	100/1000 Base SFP Slot
Fiber port connector	LC/RJ45 connector for fiber ports
Optimal fiber cable	Typical 50 or 62.5/125 μm for multimode (mm) Typical 8 or 9/125 μm for single mode (sm)

Power

Power Input	Redundant Power Input, Terminal Block
Input Voltage Range	9~56V DC, 18~36V AC
Reverse power protection	YES
Power Consumption	3 Watt (24VDC)

Indicators

Power status indication	Power Input status
Ethernet port indication	Link & speed

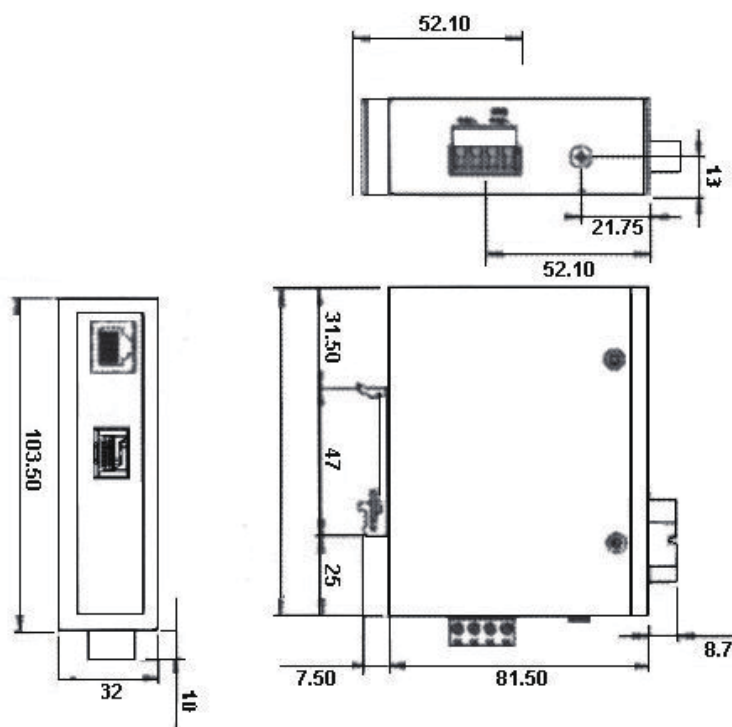### Environmental and Compliances

Operating Temperature	-40~75ºC (Cold startup at -40ºC)
Storage Temperature	-40~85ºC
Humidity	5~95% (Non-Condensing)
Vibration, shock, free fall	IEC-60068-6, -27, -32

Certification Compliance	CE, FCC
Electrical safety	CE
EMC	FCC Part 15, CISPR 22 (EN55022) Class A IEC-61000-4-2, -3, -4, -5, -6 (Level 3)
RoHS & WEEE	RoHS (Pb free) and WEEE Compliant
MTBF	>25 years

Mechanical

Protection	IP30
Dimension	103.5mm x 32mm x 81.5mm(LxWxD)
Weight	200g
Installation	DIN-Rail mounting; Wall mounting
DIP	LFP (Link Fault Pass Through) Enable/disable Link Fault Pass Through

Dimension Diagram

Ordering Information

Available Models	Description	10/100/1000Mb TX	100/1000Mb FX
IS-DG102-F	Industrial Media Converter, 10/100/1000M TX to 100/1000M , SFP Slot	1	1

Accessories

1. 100 Mb SFP Modules

2. Gigabit SFP Modules