IS-DG103 Series

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



The IS-DG103 Series is a rugged Gigabit Ethernet to fiber Industrial media converter designed for where critical but space-limited applications, and can be powered by wide range of DC power adapter. With its compact and easy to use design, the IS-DG103 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-DG103 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

- 2 10/100/1000 Mb RJ45, 1 100/1000FX (Multi/Single-mode)
- Rugged design, compact enclosure
- Layer 2 Line-Speed Switching Fabric, non-blocking.
- Wide range power input, 9 ~ 48VDC
- Surge protection diodes on power input.
- -40°C to 75°C operating temperature

Specification

Ethernet

Operating Mode	Store and Forward, L2 wire-speed/non-blocking switching engine
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX/100Base-FX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3z 1000Base-X Gigabit Ethernet IEEE802.3x traffic and back pressure

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 ~ 48V DC
Reverse power protection	YES
Power Consumption	3.5 Watt

Indicators

Power status indication	Power Input status
Ethernet port indication	Link

Environmental and Compliances

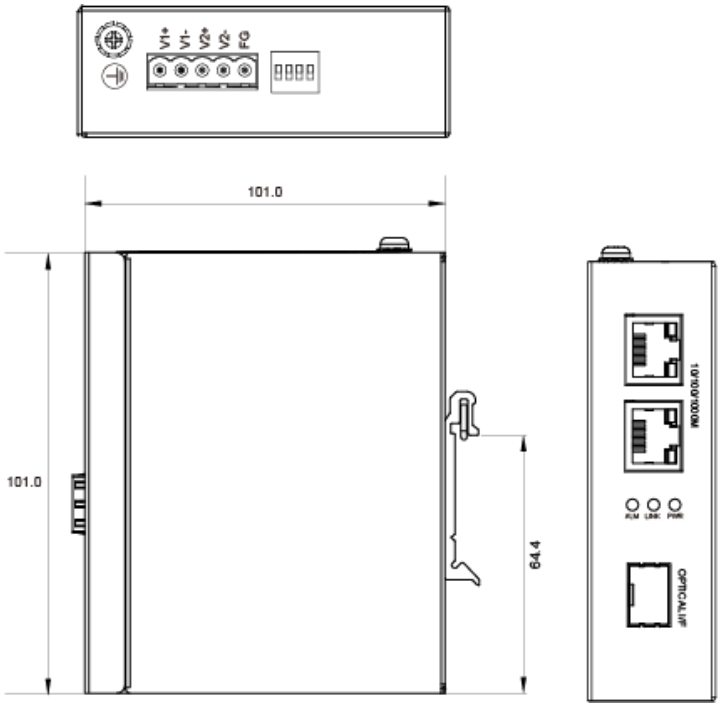
Operating Temperature	-40~75°C (Cold startup at -40°C)
Storage Temperature	-40~85°C

Humidity	5~95% (Non-Condensing)
Vibration, shock, free fall	IEC-60068-2-6, -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	>50000 Hours

Mechanical

Protection	IP30
Dimension	101mm x 32mm x 101mm(LxWxD)
Weight	380g
Installation	DIN-Rail mounting; Wall mounting
DIP	Fiber Speed 100/1000M Adjustment, Jumbo Frame Optical Auto-Negotiation, Alarm Disable

Dimension Diagram



Ordering Information

Available Models	Description	10/100/1000Mb TX	100/1000Mb FX
IS-DG103-F	Industrial Media Converter, 2 x 10/100/1000Base-TX to 100/1000Base-FX, 1G SFP Slot, SFP excluded.	2	1

Accessories

1. 100 Mb SFP Modules
2. Gigabit SFP Modules
3. Wall-mount kit

Package Checklist

- IS-DG103-F Media converter
- Quick Installation Guide (Printed)
- Din-Rail kit