

ETHERNET MEDIA CONVERTER (UN-MANAGED) FCNID-2GN-1DGG Series

Industrial Grade Ethernet 10/100/1000Base-TX to 1000Base-FX Fiber Converter

General Description

The FCNID-2GN-1DGG series industrial grade Ethernet media converter converts Gigabit Ethernet 10/100/1000Base-TX signal to 1000Base-FX signal and vice versa. The converter operates with 2 fibers with model supporting either multimode or singlemode fiber and for singlemode, different models cover different range of communication distance. This allows the extension of typical copper cable transmission distance of 100m to 550m - 100km over the fibers.

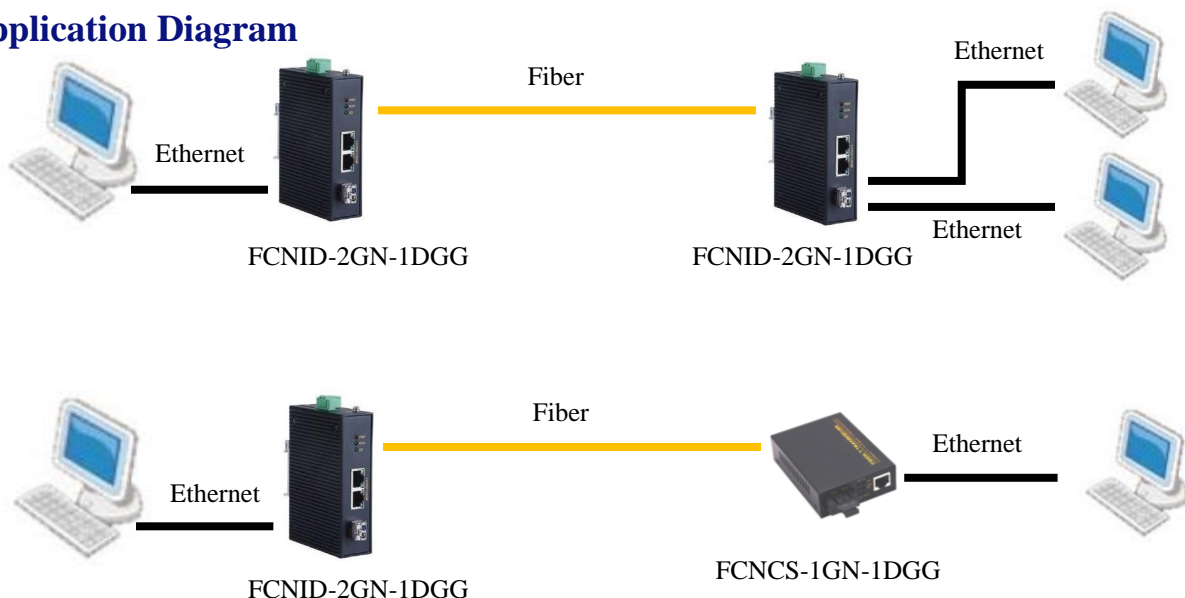
FCNID-2GN-1DGG series is fully compliant to IEEE802.3, 802.3u, 802.3ab and IEEE802.3x.



Features

- Wide temperature $-40^{\circ}\text{C} \sim 75^{\circ}\text{C}$
- Store-and-forward
- 2 x 10/100/1000Base-TX RJ45 ports, supports half/full duplex communication
- Automatic MDI/MDIX connection
- Broadcast storm suppression
- Fan-less and DIN-Rail design for harsh industrial environment
- EMC protection and over current / over voltage protection
- IP40 rated aluminium casing
- Able to communicate with the same series commercial grade Ethernet media converter (FCNCS-1GN-1DGG series or FCNCR-1GN-1DGG series)

Application Diagram



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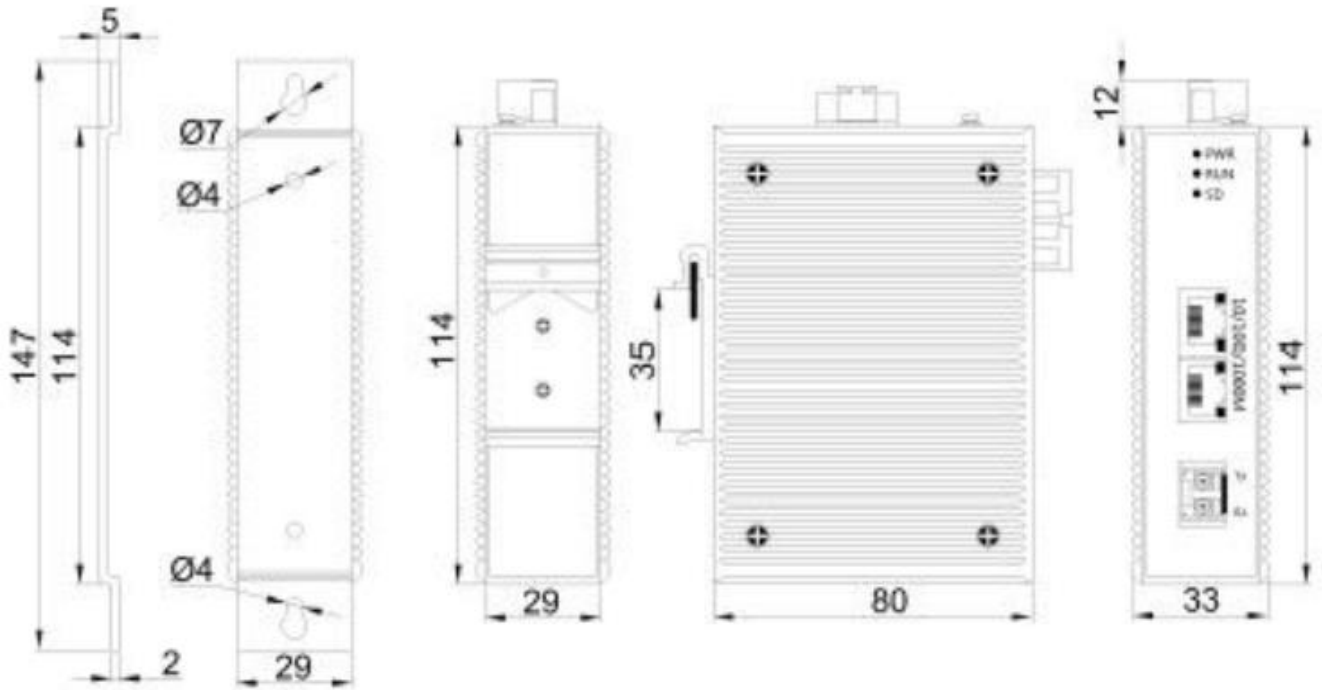
Specifications

Type	Description	
Standards	IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3ab, IEEE802.3z	
Interface	TP Port	10/100/1000Base-TX RJ45 x 2
	F/O Port	1000Base-FX x 1 Duplex LC
LED	Power, FO Link/Act, TX Speed, TX Link/Act	
MAC	1K	
Power Requirement	Power Input	12VDC to 48VDC (12VDC, 48VDC & 220VAC available upon request)
	Power Consumption	<5W
H/W Specification		Store and forward switching mechanism Auto-Cross over for MDI/MDI-X in TP port Auto-Negotiation in TP port Full/Half Duplex Mode Operation
Environmental Condition	Operation	-40°C ~ 75°C
	Storage Temperature:	-45°C ~ 85°C
	Humidity	5% ~ 95%, non-condensing
Dimension & Weight	Size	114 x 80 x 33 mm (HxDxW)
	Weight	0.3KG
MTBF (Mean Time Between Failures)		100,000 hours
Casing Material		Aluminium
Mounting		Din-rail / Wall mount
IP Rating		40



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Dimensions



Ordering Information

10/100/1000Base-TX Fiber Converter	
Model	Description
FCNID-2GN-1DGG-M02	FiberTek 2 x 10/100/1000Base-TX to 1000Base-FX Converter, Din-rail mount, -40 to 75 degree Celsius, 12VDC to 48VDC (Multimode 2km/LC/14dB/1310nm)
FCNID-2GN-1DGG-S20	FiberTek 2 x 10/100/1000Base-TX to 1000Base-FX Converter, Din-rail mount, -40 to 75 degree Celsius, 12VDC to 48VDC (Singlemode 20km/LC/13dB/1310nm)
FCNID-2GN-1DGG-S40	FiberTek 2 x 10/100/1000Base-TX to 1000Base-FX Converter, Din-rail mount, -40 to 75 degree Celsius, 12VDC to 48VDC (Singlemode 40km/LC/20dB/1310nm)
FCNID-2GN-1DGG-S60	FiberTek 2 x 10/100/1000Base-TX to 1000Base-FX Converter, Din-rail mount, -40 to 75 degree Celsius, 12VDC to 48VDC (Singlemode 60km/LC/22dB/1550nm)
FCNID-2GN-1DGG-S100	FiberTek 2 x 10/100/1000Base-TX to 1000Base-FX Converter, Din-rail mount, -40 to 75 degree Celsius, 12VDC to 48VDC (Singlemode 100km/LC/30dB/1550nm)