IRF-612 : RS-422/485 to Fiber Converter

Product Introduction & Benefits

The IRF-612 media converter is a solid solution for applications that require a reliable link between remote terminals and host computers. The unit can extend to distances ranging from 2km (multi-mode fiber) to 120km (single-mode fiber). The IRF-612 enables network managers to install fiber cabling anywhere within the existing network environment – without the removal, replacement or modification of any copper-based RS-422/485 infrastructure. Plus, it is capable of 4-wire operations in RS-485 mode.

Simply use the DIP switch to adapt to different cabling environments (eg. 4-wire or 2-wire). The converter is ideal for connecting data-communication devices situated in manufacturing-intensive environments where electromagnetic and radio-frequency interference is a major concern. Data integrity is also assured due to the characteristics of fiber-optic cables that make any leakage of transmission detectable.

FCC Class A   CE Approval

Main Features:

- Complies with EIA/TIA-422, EIA/TIA-485
- Supports asynchronous data transfer rate of up to 115.2 kbps
- Supports 4-wire full and 2-wire asynchronous data transmission
- DIP switch enable / disable functions
- Available ST/SC connector
- LED status indicators for system monitoring
- Relay output for power failure & link downs
- Rugged, hardened case and industrial-grade components able to withstand extreme vibration/shock
- Redundant dual DC power inputs with Terminal Block
- FCC Class A & CE approved

Ordering Information:

IRF-612MT/MC:
  RS-422/485 to Multi-mode Fiber Converter (ST/SC Connector)

IRF-612SC-30/60/100/120:
  RS-422/485 to Single-mode Fiber Converter (SC Connector, 30/60/100/120km)

Specifications:

Standards:
EIA/TIA-422, EIA/TIA- 485

Ports:
1 x Serial RS-422/485 (Terminal Block)

1 x Fiber (ST/SC Multi-mode / Single-mode)

Max. Distance:
Copper:	1,200 meters.
Fiber:	Up to 120km (Single-mode)

DIP Switches:
DIP1:	PWR - Enable / disable normal power alarm
DIP2:	RPS - Enable / disable redundant power alarm
DIP3:	FIBER - Enable / disable fiber link alarm
DIP7:	ON: RS-485 2 wires / OFF: RS-422/485 4 wires
DIP8:	RS-422/485 Terminator

Power:
Power Input:	9 ~ 48V DC / 1A

Temperature:
Operating:	0°C to 70°C
Storage:	-20°C to 80°C

Humidity:
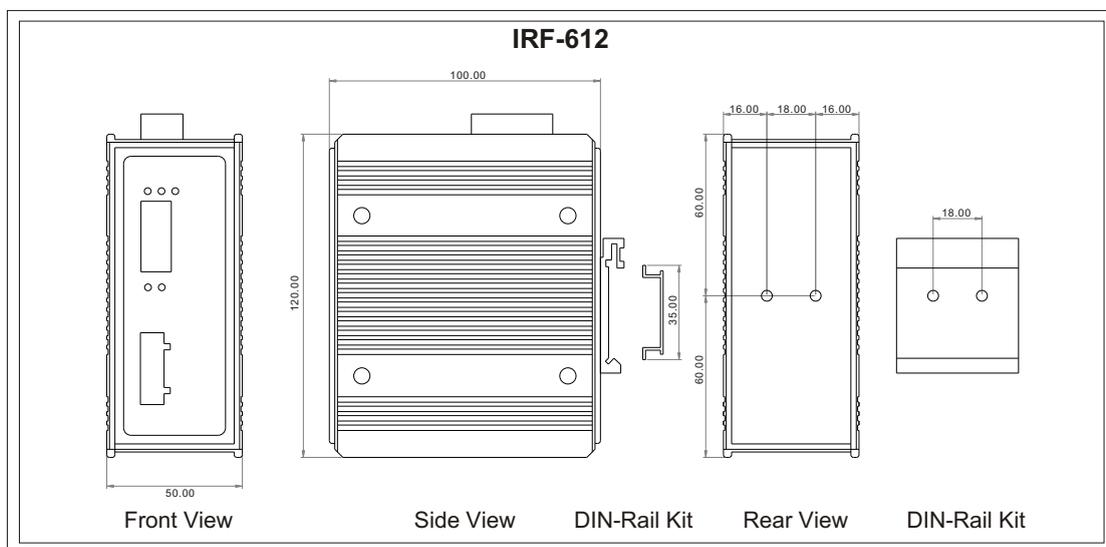|	
Operating:	10% to 80%, non-condensing
Storage:	5% to 90%, non-condensing

Emissions:
FCC Part 15 of Class A & CE approved

Weight:
450g

Dimensions:
100 x 50 x 120mm (D x W x H)

IRF-612

Front View   Side View   DIN-Rail Kit   Rear View   DIN-Rail Kit

Unit=mm