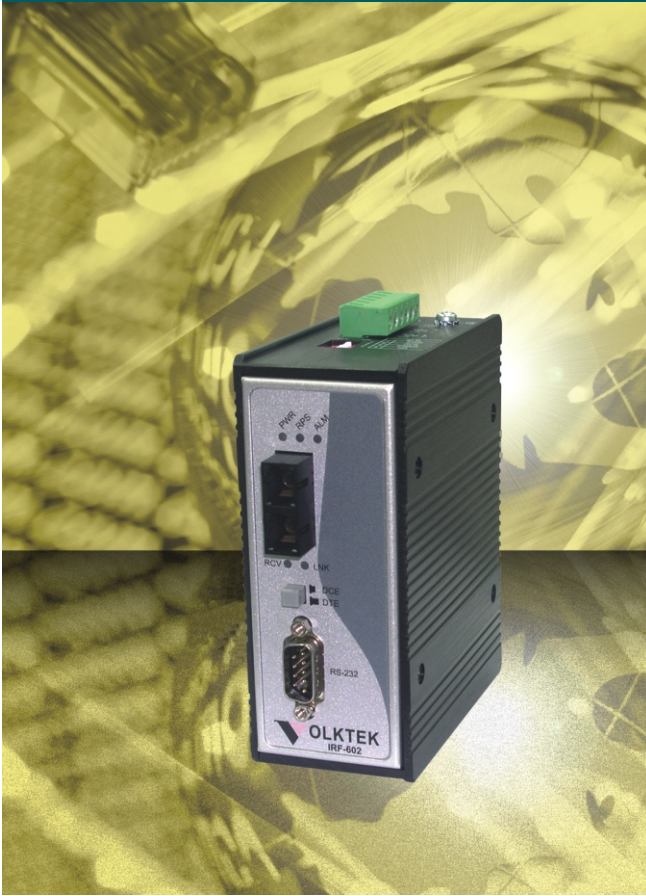# IRF-602 RS-232 to Fiber Converter

Product Introduction & Benefits

The IRF-602 media converter is a solid solution for applications that require a reliable link of remote terminals to host computers. The unit offers cost-efficiency for extending distances ranging from 2km (multi-mode) to 120km (single mode). Together with its simple-to-setup and install characterstics the converter makes it easy to combine the advantages of fiber technology within a RS-232 copper-based

By facilitating the integration of the existing copper cabling with newer fiber optic cabling, the IRF-602 represents a cost-effective solution for network administrators eager to keep costs down when upgrading. The converter is ideal for connecting data communication devices situated amongst manufac-turing intensive environments where electromagnetic and radio frequency interference is a major concern. Data integrity is also assured due to the nature of fiber optic cable making any comprise in transmission detectable.

FCC Class A   CE Approval

Main Features:

- Complies with EIA/TIA-232, EIA/TIA- 574 & CCITT V.28 standard
- Supports asynchronous data transfer rate up to 115.2 kbps
- DTE, DCE setting push-button
- Relay output for power failure & link down
- LED status indicators for power (PWR), link (LNK) and receive (RCV)
- Available ST/SC connectors
- Rugged, hardened case and industrial grade components able to withstand extreme vibration/shock
- Redundant dual DC power inputs with Terminal Block
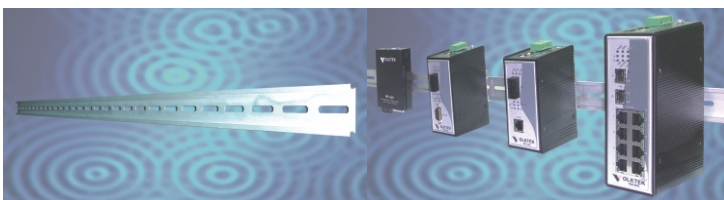- FCC Class A & CE approved

Ordering Information:

IRF-602MT/MC:
   RS-232 to Multi-mode Fiber Converter (ST/SC Connector)

IRF-602SC-30/60/100/120:
   RS-232 to Single Mode Fiber Converter (SC Connector, 30/60/100/120km)

Specifications:

Standards:
EIA/TIA-232, EIA/TIA- 574 & CCITT V.28

Ports:
1 x serial RS-232 (Db9, Male)
1 x Fiber (ST/SC ; Multi-mode / Single Mode)

Max. Distance:
Copper: 15 meters.
Fiber: Up to 120km (single mode)

Data Rates:
Serial: 115.2 kbps (asynchronous)

Signals:
RS-232:   TxD, RxD, GND

Unit LED:
PWR: Green   Illuminated for normal operation
LNK: Green   Illuminated when receiving link pulse from compliant
RCV: Amber   Illuminated when receiving packets from DTE or DCE

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

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

Weight:
450g

Product Application

The following illustrates typical applications for the IRF-602 series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.

IRF-602

Fiber
UTP/STP
Coaxial

RS-232 Copper Cabling 15m
Multi-mode 2km
Long Haul Single Mode 120km