

## IRF-629 RS-422/485 to Fiber Converter



### Product Introduction & Benefits

The unit offers cost-efficiency for extending distances ranging from 2km (multi-mode fiber) to 120km (single mode fiber). The IRF-629 enables network managers to install fiber cabling anywhere within existing network environment without the removal, replacement or modification of the current copper based RS-422/485 infrastructure. Plus, it is capable of 4-wire and 2-wire operations via dip switch.

Simply use the DIP switch to activate a terminating resistor and the IRF-629 instantly incorporates the illusion of an infinite line. The converter is ideal for connecting data communication devices situated amongst manufacturing intensive environments where electromagnetic and radio frequency interference is a major concern. Data integrity is also assured due to the nature of fiber optic cables making any compromise in transmission detectable.



### Main Features:

- Complies with EIA/TIA-422, EIA/TIA-485
- Supports asynchronous data transfer rate up to 115.2 Kbps
- Supports full and half duplex modes
- DIP switch enabled "terminator"
- 35mm DIN RAIL mounted
- Supports 4-wire full duplex, 2-wire half duplex
- LED status indicators for power (PWR), link (LNK) and receive (RCV)
- Available ST/SC connectors
- External power supply
- Chassis compliant (internal power supply)
- FCC Class A & CE approved

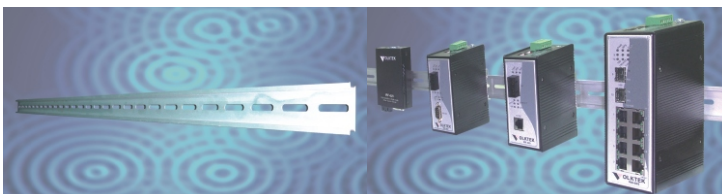
### Ordering Information:

#### **IRF-629MT/MC:**

RS-422/485 to Multi-mode Fiber Converter (ST/SC Connector)

#### **IRF-629SC-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: 1200 meters.

Fiber: Up to 120km (Single Mode)

### Unit LED:

PWR: Illuminated green for normal operation

LNK: Illuminated green when fiber is properly connected

RCV: Illuminated amber for receiving packets from RS-422/485 Device

### DIP Switches:

DIP1 N/A

DIP2 N/A

DIP3 Enables / disables 2-wire/4-wire Mode

DIP4 Enables / disables termination (TMR)

### Power:

Power Input: 9~32V DC/800mA, External power adapter

Frequency: 50Hz to 60Hz

### Temperature:

Operating: 0°C to 50°C

Storage: -20°C to 80°C

### Humidity:

Operating: 5% to 90%, non-condensing

Storage: 0% to 80%, non-condensing

### Emissions:

FCC Part 15 of Class A & CE approved

### Dimensions:

109.2 x 90 x 31.5mm (D x W x H)

### Weight:

280g

## Product Application

The following illustrates typical applications for the IRF-629 series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.

