

IRF-629

RS-422/485 to Fiber Converter, Slim Aluminum Case

Description

The IRF-629 offers cost-efficiency to transmit RS-422/485 signal over optical fiber in variable distances up to 2km (multi-mode fiber) and 120km (single mode fiber). The converter is ideal for connecting data communication devices situated in manufacturing-intensive environments where electromagnetic and radiofrequency interference is a major concern. Data integrity is also assured because the characteristics of fiber-optic cables make any break in transmission integrity immediately detectable.

The IRF-629 enables network managers to install fiber cabling anywhere within an 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 adapt to different cabling environments.

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
- DIP switch-enabled "terminator" 35mm DIN RAIL mounted
- External power supply
- Chassis compliant (internal power supply)
- FCC Class A & CE approved

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)

Data Rates

Serial: max. 115.2 kbps (asynchronous)

DIP Switches

DIP1: N/A DIP3: Enable / disable 2-wire/4-wire mode
DIP2: N/A DIP4: Enable / disable terminator (TMR)

Unit LEDs

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

Max Distances

Fiber: Up to 120km (single-mode)

Power

Power Input: 9~32V DC

Temperature

Operating Temperature 0°C to 50°C
Storage Temperature -20°C to 80°C

Humidity

Operating Humidity 10% to 80% RH
Storage Humidity 5% to 90%RH

Dimension

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

Weight

280g

Ordering Information

IRF-629MT/MC

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

IRF-629SC-30/60/100/12

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

**Specifications subject to change without notice.*



RoHS
CE FCC



Applications

