## **VOLKTEK**

## **IRF-629**

### RS-422/485 to Fiber Converter

#### **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 fiberoptic 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.











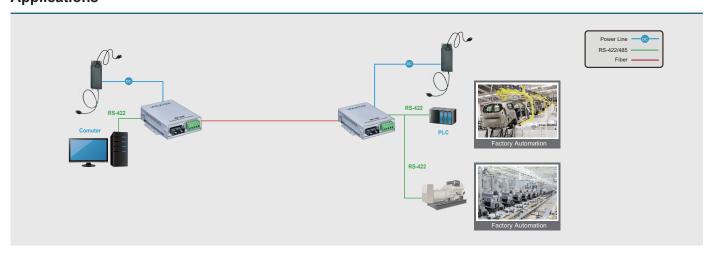


#### **Features**

- 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

#### **Applications**



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#### **Specifications**

Standards					
Serial Standards		RS-232			
Interface					
Ports		1 x Serial RS-422/485 (Terminal Block)			
		1 x Fiber (ST/SC; Multi-mode / Single-mode)			
LED Panel		PWR, LNK, RCV			
		DIP1: N/A			
DID		DIP2: N/A			
DIP		DIP3: Enable / disable 2-wire/4-wire mode			
		DIP4: Enable / disable terminator (TMR)			
Fiber Optics					
Model Name	IRF-629-MT		IRF-629-MC	IRF-629-SC	
Connector Type					
	000				
	ST		SC	SC	
Interface Type	100Base-FX		1000Base-SX	1000Base-LX	
Fiber Mode	Multi-Mode		Multi-Mode	Single-Mode	
Distance	Up to 2km		Up to 500m	Up to 80km	
		(Upon customer request)			
Features					
Data Rates		Serial: max. 115.2 kbps (asynchronous)			
Serial Signals		RS-232: TxD, RxD, GND			
		RS-422: Tx+, Tx-, Rx+, Rx-, GND			
		RS-485-4w: Tx+, Tx-, Rx+, Rx-, GND			
		RS-485-2w: Data+, Data-, GND			
Power					
Power Input		9~32VDC			
Power Consumption		2.4W			
Mechanical and	l Envi	ronment			
Housing		Aluminum (IP30 Protection)			
Mounting		Wall-Mount, DIN-Rail (Optional)			
Operating Temperature		0°C~50°C (32°F~122°F)			
Storage Temperature		-20°C~80°C (-4°F~176°F)			
Operating Humidity		5 to 95 % RH (non-condensing)			
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5 to 95% RH (non-condensing)

90 x 109.2 x 28.4 mm (3.54 x 4.3 x 1.12 in)

280 g (0.62 lb)

Certifications				
ЕМІ	FCC Part 15 of Class A & CE Approved EN 55032 Class A EN 55011 EN 61000-6-3			
EMS	EN 55024 IEC/EN 61000-4-2 (ESD) IEC/EN 61000-4-3 (RS) IEC/EN 61000-4-4 (EFT) IEC/EN 61000-4-5 (Surge) IEC/EN 61000-4-6 (CS) IEC/EN 61000-4-8 (PFMF) IEC/EN 61000-4-11 IEC-61000-6-1 IEC-61000-4-9			
Ordering Information				
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)			

<sup>\*</sup>Specifications subject to change without notice.

#### **Dimension**

Storage Humidity

Dimension (WxHxD)

Weight

