

# IRF-631

## RS-232 to Fiber Converter

### Description

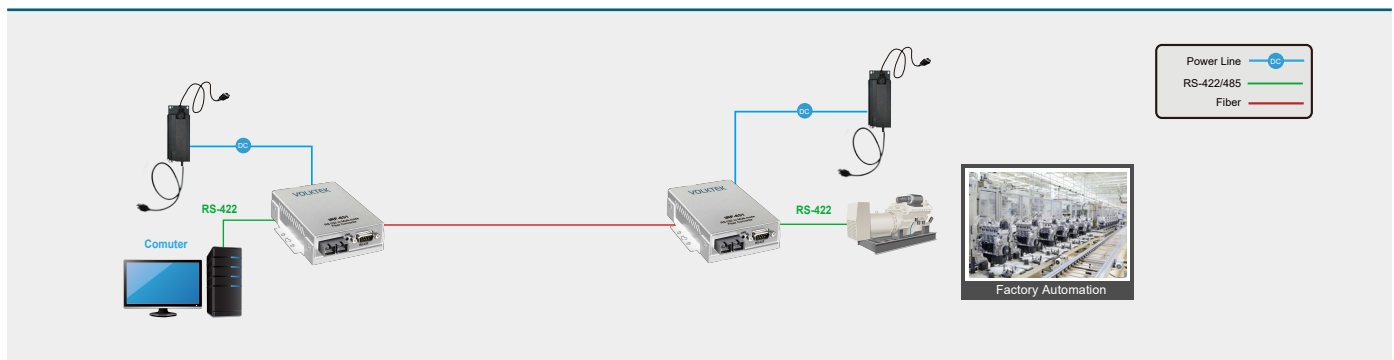
The IRF-631 converter is a solid solution for applications that require a reliable link between remote terminals and host computers. The unit offers cost-efficiency to transmit RS-232 signals over optical fiber in variable distances of 2km (multi-mode) and 120km (long-haul single-mode fiber). Together with its simple-to-setup and install characteristics, the converter makes it easy to combine the advantages of fiber technology within an RS-232 serial-based Network.

By facilitating the integration of the existing serial with newer fiber-optic cabling, the IRF-631 represents a cost-effective solution for network administrators eager to keep costs down while upgrading. The converter is ideal for connecting datacommunication 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.

### Features

- Complies with EIA/TIA-232 & 574 standards
- Supports asynchronous data transfer rate of up to 115.2 kbps
- Supports full duplex or half-duplex asynchronous data transmission
- Available with ST/SC connector for Multi-mode or SC connector for Single Mode
- LED status indicators for system monitoring
- Push-button switch to select DTE & DCE
- Extends distance of up to 2km (6600 feet) multimode fiber and 120km (396000 feet) long-haul single mode fiber
- LEDs for at-a-glance device status
- Suitable for industrial harsh environment
- Wide voltage range (9 ~ 32V DC)
- FCC Class A & CE approved

### Applications



RoHS  
CE FCC




Auto  
mdi/mdix

Plug &  
Play

Auto  
Negotiation

Wall Mount

## Specifications

Standards			
Serial Standards	RS-232		
Interface			
Ports	1 x Serial RS-232 (DB-9 Male) 1 x Fiber (ST/SC; Multi-mode / Single-mode)		
LED Panel	PWR, LNK		
Fiber Optics			
Model Name	IRF-631-MT	IRF-631-MC	IRF-631-SC
Connector Type	 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) RS-232: TxD, RxD, GND		
Serial Signals	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 Environment			
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)		
Storage Humidity	5 to 95% RH (non-condensing)		
Weight	280 g (0.62 lb)		
Dimension (WxHxD)	74 x 109 x 23 mm (2.9 x 4.29 x 0.9 in)		

Certifications	
EMI	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	
IRF-631MT/MC	RS-232 to Multi-mode Fiber Converter (ST/SC Connector)
IRF-631SC-30/60/100/12	RS-232 to Single-mode Fiber Converter (SC Connector, 30/60/100/120km)

\*Specifications subject to change without notice.

## Dimension

