# IRF-601 : RS-232 to 100Base-FX Device Server



## Product Introduction & Benefits

The innovative design of VOLKTEK device servers deliver a fully transparent connection without any need for modification to the existing software or hardware components in your applications.

Designed to enable serial devices such as CNCs and PLCs to connect to a Fast Ethernet network, the IRF-601 device server represents a robust connectivity solution. The device server features complete Fast Ethernet and TCP/IP network support that allows industrial devices with RS-232 connectors – such as milling machines, measurement instruments and robots – to connect to LAN-based automation. Other devices typically found on campus networks – such as card readers, code readers, lab equipment, medical equipment and other similar serial devices – can now instantly migrate to TCP/IP networks.

FCC Class A    CE Approval

## Main Features:

- VOLKTEK Nebility and Webility with Virtual Com (HP Open View and IBM/Tivoli NetView compatible)
- Remote Management
- Complies with EIA/TIA-232, EIA/TIA-574, IEEE 802.3u (100Base-FX)
- Distributed and scalable solution with a virtual COM port utility to manage 256 serial devices remotely
- Relay output for power failure & link down
- Fiber port with choice of ST, SC connectors
- Rugged, hardened case and industrial-grade components able to withstand extreme vibration / shock
- Redundant dual DC power inputs with Terminal Block
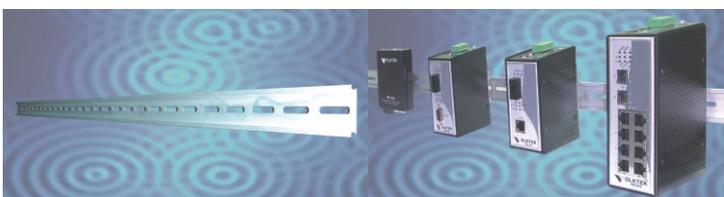- FCC Class A & CE approved

## Ordering Information:

**IRF-601MT/MC:**
   RS-232 to 100Base-FX Multi-mode Device Server  (ST/SC Connector)

**IRF-601SC-30/60/100/120:**
   RS-232 to 100Base-FX Single-mode Device Server (SC Connector, 30/60/100/120km)

# Specifications:

**Standards:**

IEEE 802.3u 100Base-FX

EIA/TIA-232; EIA/TIA-574

**Ports:**

1x 100Base-FX Fiber

1 x RS-232 Serial 9-pin D-sub, Male

**Max. Distance:**

| | |
|---|---|
| Fiber: | Up to 120km (single-mode) |
| Serial: | 15 meters (RS-232) |

**Data Rates**

| | |
|---|---|
| Fiber: | 100 Mbps |
| Serial: | 115.2 kbps (asynchronous) |

**Signals:**

| | |
|---|---|
| RS-232: | TxD, RxD, CTS, RTS, DTR, DSR, RI, DCD, GND |

**DIP Switches:**

| | |
|---|---|
| DIP1 | PWR - Enable / disable normal power alarm |
| DIP2 | RPS - Enable / disable redundant power alarm |
| DIP3 | FIBER - Enable / disable fiber link alarm |
| DIP4 | N/A |

**Configuration:**

| | |
|---|---|
| Parity: | None, even, odd |
| Data Bits: | 7 ,8 |
| Stop Bits: | 1,2 (Non-parity Only) |

**Power:**

| | |
|---|---|
| Power Input: | 9 ~ 48V DC / 1A |

**Temperature:**

| | |
|---|---|
| Operating | $0^{o}C$ to $70^{o}C$ |
| Storage | $-20^{o}C$ to $80^{o}C$ |

**Humidity:**

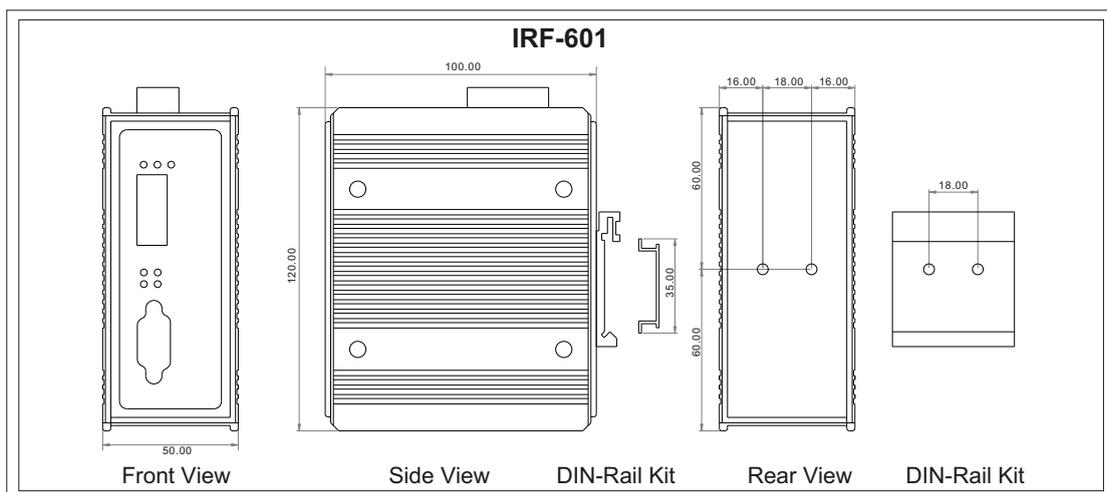| | |
|---|---|
| Operating | 10% to 80%, non-condensing |
| Storage | 5% to 90%, non-condensing |

**Emissions:**

FCC Part 15 of Class A & CE approved

**Weight:**

450g

**Dimensions:**

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



**IRF-601**

Front View — Side View — DIN-Rail Kit — Rear View — DIN-Rail Kit

Unit=mm