

# RFD DIN-IO

## Isolated Telemetry IO Interface

The RFD DIN-IO provides an easy to use Telemetry Input / Output device with 2 Fully Isolated Digital Inputs and 2 Fully Isolated Clean contact output relays.

The device allows bi-directional telemetry and data communications between a pair of devices. Each device interfaces with a completely isolated RS485 / RS422 interface (depending on the user configuration). The isolated RS422 interface makes the RFD DIN Rail IO a great choice for use in noisy and industrial environments.

### FEATURES

*Secure, encrypted over the air communications*

*9-32V (DC) input voltage range*

*2 opto-Isolated digital inputs*

*2 clean contact isolated relay outputs*

*Fully isolated RS485/RS422 serial interface with switchable termination*

*Simple one-button pairing sequence*

*Compact DIN rail mounted enclosure*

*Industrial temperature range (-20°C to +60°C)*

*Modbus Capable RS485 Expansion*

*8x Status LEDs*

*Slim profile (101 x 22.5 x 120mm)*



Secure, Encrypted  
Over The Air  
Communications



2 Opto-Isolated Digital Inputs,  
2 Clean Contact Isolated  
Output Relays



Bi-directional Long  
Range Radio Link Using  
License Free 900Mhz Radio



Simple One-Button  
Pairing Sequence



9-32V DC Input Voltage  
Wide Range



Isolated RS422/485  
For Use In Noisy &  
Industrial Environments

## RF FEATURES

Bi-directional Radio link using license free 900MHz Radio Band

Long range

Dual RPSMA antenna ports with diversity support

High performing receiver sensitivity (121dBm)

RF transmit power up to 30dBm

902 ->928MHz GFSK with Frequency Hopping Spread Spectrum

## APPLICATIONS

Remote Control and Monitoring Systems

Wireless RS485/422 bus extension

Industrial Control Systems

Factory Automation

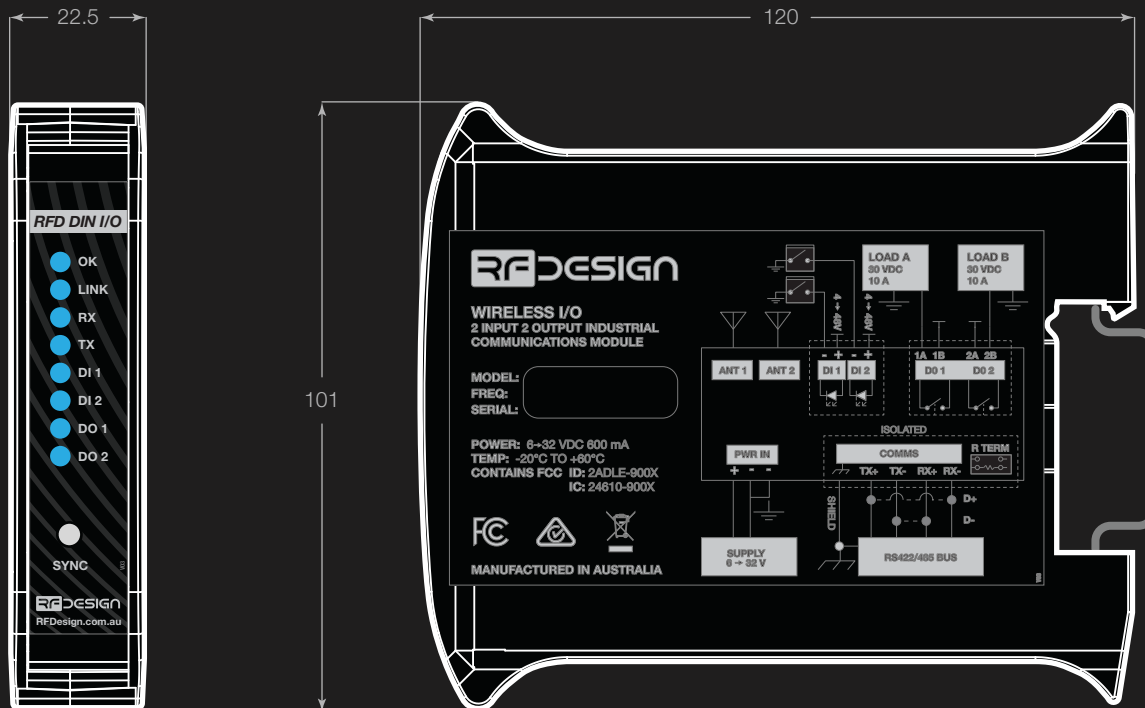
Cable replacement for existing equipment

Building Automation

Wireless Alarms and Security Systems

## DIMENSIONS

In mm



## ACCESSORIES

The RFD DIN IO will require antennae and co-axial cable

Components to suit the installation. The following accessories are available from RF Design;

- PSMA to N bulkhead male "tail"
- RPSMA Extension Cables
- 3dB/6dB indoor whip antennas
- 5dB collinear outdoor antenna
- 6dB Omni-directional outdoor antenna