If you need to control or monitor a device or system at a distance, the ReFlexIO is the solution. It comes complete with 8 x onboard I/O's that allow you to connect to almost any device. Use it to monitor or control pumps, valves, PLC’s, dataloggers, rain gauges, tank levels, security systems, fire & evac systems, access control, irrigation systems, flow meters, emergency standby systems and more.

### Communication Specifications
- **On Air Rate:** 125,000 bps
- **RF Output Power:** +30 dBm (1W)
- **Receive Sensitivity:** -100 dBm at 10e-4 BER
- **Spectrum (FHSS):** Frequency Hopping Spread
- **Receive Sensitivity:** -100 dBm at 10e-4 BER
- **RF Output Power:** +30 dBm (1W)
- **On Air Rate:** 125,000 bps
- **Modulation:** Frequency Hopping Spread
- **Receive Sensitivity:** -100 dBm at 10e-4 BER
- **RF Output Power:** +30 dBm (1W)
- **On Air Rate:** 125,000 bps
- **Encryption:** 256-bit AES Encryption

### IO Specifications
- **Analog Inputs (2x):** 0-20mA or 4-20mA
- **Impedance:** 250 Ohms
- **Compliance:** Supplied Voltage (9 to 30VDC)
- **Digital Inputs (2x):** 25 to 30VDC
- **Digital Outputs (2x):** Open Coll. (up to 30VDC)
- **Failsafe:** Configurable on all Outputs (AO and DO)
- **Resolution:** 12 bit (AO and DO)
- **Output Power:** Supplied voltage (9 to 30VDC) up to 200 mA
- **Analog Outputs (2x):** 0-20mA or 4-20mA
- **Impedance:** 250 Ohms
- **Compliance:** Supplied Voltage (9 to 30VDC)
- **Digital Inputs (2x):** 25 to 30VDC
- **Digital Outputs (2x):** Open Coll. (up to 30VDC)
- **Failsafe:** Configurable on all Outputs (AO and DO)
- **Resolution:** 12 bit (AO and DO)
- **Output Power:** Supplied voltage (9 to 30VDC) up to 200 mA

### General Specifications
- **Setup Security:** Password Protected Menues
- **Status Display:** 96 x 64 pixel OLED with Navigation Buttons
- **Status LEDs:** Power, Scan, Comm, and Error
- **Humidity:** 95% non-condensing
- **Temp (Operate):** -40 to 70 °C (-40 to 158 °F)
- **OLED:** -20 to 70 °C (-4 to 158 °F)
- **Temp (Storage):** -40 to 80 °C (-40 to 176 °F)
- **Power (I):** 1W (Trans): 600mA (12V)
- **Power (V):** 9 to 30VDC
- **Power (V):** 100mW (Rec): 60mA (12V)
- **Power (V):** 1W (Rec): 60mA (12V)
- **Power (V):** 1W (Rec): 60mA (12V)
- **Weight:** 400 g (0.88 lb)
- **Dimensions:** 35 x 175 x 128 mm (1.38 x 6.89 x 5.04 in)
- **Enclosure Type:** Plastic
- **Temp (Storage):** -40 to 80 °C (-40 to 176 °F)
- **Humidity:** 95% non-condensing
- **Status LEDs:** Power, Scan, Comm, and Error
- **Temp (Operate):** -40 to 70 °C (-40 to 158 °F)
- **Temp (Storage):** -40 to 80 °C (-40 to 176 °F)
- **Power (I):** 1W (Trans): 600mA (12V)
- **Power (V):** 9 to 30VDC
- **Power (V):** 100mW (Rec): 60mA (12V)
- **Power (V):** 1W (Rec): 60mA (12V)
- **Weight:** 400 g (0.88 lb)
- **Dimensions:** 35 x 175 x 128 mm (1.38 x 6.89 x 5.04 in)
- **Enclosure Type:** Plastic

### Ordering Information
- **REFLEXIO-B2BKIT-900**
- **REFLEXIO-B2BKIT-900-D2**
- **REFLEXIO-RIO-900**
- **REFLEXIO-RIO-900-D2**

### Accessories
- **REFlexIO-IOS**

### Status Displays
- **RF Communications**
- **Local IO State**
- **Remote IO State**
- **Local Status**
- **Remote Status**

### Menu Options
- **Menu Options are Highlighted on the Display and Selected via the Front Panel Buttons**

### ReFlexIO Simulator
The ReFlexIO Simulator Unit is an easy to use, low cost device that allows you to test the ReFlexIO unit's functions and IO during commissioning. It is also ideal as a demonstration tool, to show the ReFlexIO’s capabilities easily (One Simulator per unit).

The device comes fully wired and only needs to be plugged into the ReFlexIO unit and connected any 12VDC power source.

- **Digital Controls:** 2 x Toggle Switches (IN), 2 x LEDs (OUT)
- **Analog Controls:** 2 x Potentiometers (IN), 2 x 10 segment LED Bars (OUT)

**Case Dimensions (HxWxD):** 135 x 70 x 24 mm (5.31" x 2.76" x 0.94")

**Power Needed on Each Unit:**

**Wireless Link**

**Connects to Back to Back Mirrored Pair**

**Pre-configured as a Working Back to Back Mirrored**

**Becomes IO Here**

**ReFlexIO Back to Back Pair Example**

**Sample Displays**

**ReFlexIO Back to Back Pair Starter Kit**

**Configurations: 20 Data Points**

- **Temperature:** 20 Data Points
- **Voltage:** 20 Data Points
- **Current:** 20 Data Points
- **Counter:** 4 Data Points

**Sample Voltage:** 10.5V

**Sample Temperature:** 21°C

**Sample Temperature:** 21°C

**Sample Temperature:** 21°C

**Sample Temperature:** 21°C

**Sample Temperature:** 21°C

**Sample Temperature:** 21°C

**Sample Temperature:** 21°C
ReFlexIO™
900Mhz Industrial Wireless Cable Replacement System

Remote IO State
Remote Status

877 3 GET IOS (877.343.8467)

ioSelect, Incorporated
P: 858-537-2060, F: 800-303-5381, info@ioselect.com
www.ioselect.com
Rev: 2/23/2011

ReFlexIO™
900Mhz Industrial Wireless Cable Replacement System

Menu Driven Configuration

Sample Displays

ReFlexIO Back to Back Pair Starter Kit

ReFlexIO Back to Back Pair Example

The ReFlexIO Simulator Unit is an easy to use, low cost device that allows you to test the ReFlexIO unit’s functions and IO during commissioning. It is also ideal as a demonstration tool, to show the ReFlexIO’s capabilities easily (One Simulator per unit). The device comes fully wired and only needs to be plugged into the ReFlexIO unit and connected any 12VDC power source.

Digital Controls: 2 x Toggle Switches (IN), 2 x LEDs (OUT)
Analog Controls: 2 x Potentiometers (IN), 2 x 10 segment LED Bars (OUT)
Case Dimensions (HxWxD): 135 x 70 x 24 mm (5.31" x 2.76" x 0.94")

Ordering Information:
REFLEXIO-828KT-900 - ReFlexIO Back-to-Back Pair Starter Kit
Includes (2) ReFlexIO Remote IO units, (2) 3 ft. RF Cables and (2) rubber Whip antennas. Pre-configured as back-to-back pair. No programming required. 9-30VDC power needed on each unit.

REFLEXIO-828KT-900-D2 - ReFlexIO Back-to-Back Pair Example
Includes (2) ReFlexIO Remote IO units, (2) 3 ft. RF Cables and (2) rubber Whip antennas. Pre-configured as back-to-back pair. No programming required. 9-30VDC power needed on each unit.

REFLEXIO-RIO-900 - ReFlexIO unit with (2) AI, (2) AO, (2) DI, (2) DO and Radio
Above with Class 1 Div 2 Approvals

REFLEXIO-RIO-900-D2 - ReFlexIO unit with (2) AI, (2) AO, (2) DI, (2) DO and Radio
Above with Class 1 Div 2 Approvals

Accessories:
REFLEXIO-IOS - ReFlexIO Simulator Unit