PHOENIX CONTACT Wireless I/O Systems

PHŒNIX CONTACT
INSPIRING INNOVATIONS

🌱 RoHS Compliant **This product is RoHS compliant.**

900MHZ TRUSTED WIRELESS ETHERNET RADIO

The RAD-ISM-900-EN-utilizes the MOTR-9™ radio platform, a 1W frequency-hopping, spread spectrum transceiver operating in the license-free 902-928MHz ISM band. The MOTR-9 features user configurable over-the-air data rates up to 500kbps with adjustable packet sizes to move data quickly and minimize latency. Like other devices in the RAD-Line product group, the unit supports master, slave and repeater operational modes and has integrated RS-232 and RS-422/485 serial ports allow the incorporation of serial data into an Ethernet network.

Features:
- 1 watt transmit power
- Interference free frequency Hopping Spread Spectrum Technology
- License free 902 - 928MHz ISM Band
- Temperature Range: -40°±60°C
- Programmable via any web browser
- 128/192/256-bit AES encryption

🌱 RoHS Compliant

MOUSER STOCK NO.	Phoenix Type	Fig.	Description	Price Each
651-2900016	RAD-ISM-900-EN-BD	A	Trusted Wireless Ethernet Radio (TWE) with MOTR-9 Technology for ethernet and Serial data over a secure radio connection.	

900MHZ ONE-WAY WIRELESS SYSTEMS

With these unidirectional radio systems it is possible to record and safely transmit an analog and two digital sensor signals. With very simple installation, it is possible to collect signals where cables cannot be laid or can only be laid with great difficulty. In addition to point to point connections, the possibilities also exists of constructing multi-receiver systems. The sets include a receiver, transmitter, and antennas with connecting cable.

Features:
- 1 watt transmit power
- Interference free - Frequency Hopping Spread Sprectrum technology
- Licence free 902 - 928MHz Industrial, Scientific, and Medical (ISM) band
- Class I, Division 2 approved for hazardous area installation (UL, CUL and CSA approved)
- Temperature Range: -40°C to +70°C
- Easy to use, wire in - wire out, no setup or programming
- Range: 600 - 1000 ft in plant, no line of sight

🌱 RoHS Compliant

MOUSER STOCK NO.	Phoenix Type	Fig.	Description	Price Each
651-2867102	RAD-ISM-900-SET-UD-ANT	B	24V DC set with one 4-20mA and 2 discrete signals. DIN rail mount	
651-2867021	RAD-ISM-900-SET-AC-UD	C	110-240V AC set with one 4-20mA and 2 discrete signals. Weatherproof NEMA 4X conduit mount transmitter, DIN rail mount receiver.	
651-2867034	RAD-ISM-900-SET-DC-UD	C	12-30V DC set for one 4-20mA and 2 discrete signals. Weatherproof NEMA 4X conduit mount transmitter, DIN rail mount receiver.	
651-2867047	RAD-ISM-900-RX	-	Spare Receiver to expand point to multipoint connections. DIN Rail mount	

900MHZ TWO-WAY WIRELESS SYSTEMS WITH EXPANDABLE I/O OPTIONS

Besides duplex operation, the bi-directional radio system offers the possibility of lining up additional moudules for recording and outputting analog and digital signals. This unique design gives the user flexibility to add on multiple channels of I/O to the pared transceivers in combinations. They are ideal for moving numerous signals within high interference environments without costly cable and conduit runs. The sets include a receiver, transmitter, and antennas with connecting cable.

Features:
- 1 watt transmit power
- Interference free - Frequency Hopping Spread Spectrum technology
- Licence free 902 - 928MHz Industrial, Scientific, and Medical (ISM) band
- Range: 600 - 1000 ft in plant, no line of sight
- Class I, Division 2 approved for hazardous area installation (UL, CUL and CSA approved)
- Up to 8 expandable I/O modules per transceiver on common power
- Max 33 analog or 66 discrete signals in one direction
- Dry contact LINK diagnostic output
- Temperature Range: -40°C to +70°C

🌱 RoHS Compliant

MOUSER STOCK NO.	Phoenix Type	Fig.	Description	Price Each
651-2867270	RAD-ISM-900-SET-BD-BUS-ANT	B	9-30V DC set with one 4-20mA in/out and 2 discrete signals in/out with bus connection for power and communicatrion. DIN Rail mount.	
651-2867092	RAD-ISM-900-BD-BUS	–	Device can be configured as a spare or as a repeater for long distance or heavily obstructed applications (requires HOPKEY for configuration)	
I/O Modules				
651-2867115	RAD-IN-4A-I	D	4 channel analog input module, 4mA - 20mA	
651-2867128	RAD-OUT-4A-I	D	4 channel analog output module, 4mA - 20mA	
651-2867144	RAD-IN-8D	D	8 channel digitial input module, 5-36V AC/DC	
651-2867157	RAD-OUT-8D-REL	D	8 channel digital output module with relay, 120V AC, 5A rated contacts	

2.4 GHZ POINT TO MULTIPOINT BLUETOOTH WIRELESS DATA
PSI BLUETOOTH CONVERTER

The PSI Bluetooth converter provides a quick and easy wireless connection between serial interfaces of RS-232, RS-422, and RS-485 2-wire standard. Data connections can be established to third party devices or the PSI Bluetooth RS-232 adapter. This module has been specifically designed to meet the requirements of industrial enviorments and supports operation without software drivers thanks to its full integrated protocol stacks.

Features:
- Din Rail Mount
- Supply of 24V DA or AC
- Transmission speeds of up to 187.5kbps
- Integrated Bluetooth path diagnostics
- Class I, Division 2 approved for hazardous area installation (UL, CUL and CSA approved)
- Can be set to V.24(RS-232), RS-422, or RS-485
- Supports all popular 10/11-bit UART data formats
- Bluetooth access protected by password, fixed device pairing or device access list
- Scalable transmission power (-28dBm - +20dBm)

🌱 RoHS Compliant

MOUSER STOCK NO.	Phoenix Type	Fig.	Description	Price Each
651-2708517	PSI-WL-RS232-RS485/BT	E	Bluetooth converter for wireless RS 232, RS 422, & RS 485, MCX connection for external antenna	

FL COM SERVER - SERIAL RS-232 DEVICE SERVER FOR 10/100BASE-T(X)

The FL COM SERVER converts a serial RS-232 interface to Ethernet. It allows easy integration of RS-232 devices into 10/100Base-T(X) networks.

Features:
- Supports all common Network Protocols
- Diagnostic display
- Integrated surge voltage protection
- 10/100 Base T(X) Auto Detect
- Din Rail Mount
- 22.5 Housing width

🌱 RoHS Compliant

MOUSER STOCK NO.	Phoenix Type	Fig.	Description	Price Each
651-2744490	FL COM SERVER RS232	F	Interface module to convert RS-232 to ethernet.	