SureCross®
Serial Data Radio

Simple Cable Replacement

Applications
- Serial wire extension and replacement
- Remote I/O
- Message display signs
- SCADA (PLCs, Modbus RTU)

Easy to Deploy
1. Set DIP switches
2. Bind radios
3. Wire in serial connection

Just follow the *SureCross Wireless Quick Start Guide* (P/N 170872)

An Industrial Serial Radio that combines long distance coverage with ease of use

SureCross Serial Data Radios are wireless industrial communication devices used to extend the range of serial communication networks. Designed to support communication protocols that use RS232 or RS485, the Banner Serial Data Radio is a cost effective way to close the gap for long distance serial communication needs.

2 Models Available
- **DX80SR9M-H** 900 MHz (1 Watt) with a 9.6 kilometer (6 mile) range
- **DX80SR2M-H** 2.4 GHz (65 mW) with a 3.2 kilometer (2 mile) range

Flexibility
- Each model can be selected to be a Master, Slave or a Repeater to support Point-to-Point, Point-to-Point with Repeaters, Star and Tree radio network topologies

Ease of Use
- No software required for deployment

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Specifications

Radio

Radio Range	**900 MHz (1 Watt):** Up to 9.6 kilometers (6 miles) * **2.4 GHz (65 mW/100 mW EIRP):** Up to 3.2 kilometers (2 miles) *
900 MHz Compliance (1 Watt Radios)	ISM Band The Americas
2.4 GHz Compliance	ISM Band World Wide
Spread Spectrum Technology	FHSS (Frequency Hopping Spread Spectrum)
Radio Network Topologies	Point-to-Point, Star, Point-to-Point with Repeaters and Tree

* Line of sight with included 2 dB antenna. High-gain antennas available for increased range

General

Power	+10 to 30V dc
Housing	Polycarbonate
Conduit Connection	½ inch NPT
Antenna Connection	Reverse Polarity SMA
Wiring Access	Four position terminal
Hardware Interface	Two bi-color indicators LEDs One push button Eight position DIP switch RS485/RS232 jumper selectable

Communications

Serial	**RS232:** RX, TX **RS485:** 2 wire (Half Duplex) **Baud Rate:** 1,200 bps to 115.200 bps (Adjustable)

Environmental

Rating	IEC IP67; NEMA 6
Conditions	**Operating Temperature:** −40 to +85° C **Operating Humidity:** 95% max. relative (non-condensing) **Radiated Immunity:** 10V/m, 80-2700 MHz
Shock and Vibration	**Shock:** 30 g **Vibration:** 10 to 60 Hz

Radio Network Topologies

Point-to-Point | Point-to Point with Repeater | Star (Point-to-Multipoint) | Tree

Cable Replacement Configuration ← → Broadcast Mode Configuration

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