

# SureCross® PM Series



## An I/O radio network that combines long range coverage with ease of use.

SureCross PM Series of I/O radios provides a flexible network, that allows you to distribute discrete and analog signals over long ranges. With no software required, you can replace cables and extend the range of digital and analog signals with minimum effort.

### Easy to Apply

- Choose from two I/O model configurations
- Select from multiple I/O maps

### Easy to Use

- No software needed
- Menu-driven LCD User Interface

### Easy to Support

- Use LCD for I/O and signal strength monitoring
- Advanced expandability via User Configuration Tool

## Simple Wire Replacement

### Applications

- Call for parts
- Machine status
- Remote indication
- Supervisory control
- Digital or analog wire replacement

### Easy to Deploy

1. Choose I/O map
2. Bind radios
3. Wire in I/O connections

[www.bannerengineering.com](http://www.bannerengineering.com)

1.888.373.6767



more sensors, more solutions

[bannerengineering.com](http://bannerengineering.com)

# Specifications

## Radio

<b>Radio Range</b>	<b>900 MHz (1 Watt):</b> Up to 9.6 kilometers (6 miles)* <b>2.4 GHz (65 mW/100mW EIRP):</b> Up to 3.2 kilometers (2 miles)*
<b>900 MHz Compliance (1 Watt Radio)</b>	ISM Band (Region 2) The Americas and Greenland
<b>2.4 GHz Compliance</b>	ISM Band World Wide
<b>Spread Spectrum Technology</b>	FHSS (Frequency Hopping Spread Spectrum)

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

## I/O Types

Gateways	
<b>DX80G*M6S-PM2</b>	4 Discrete IN (PNP/NPN selectable) 4 Discrete OUT (PNP) 2 Analog IN (0 to 20 mA) 2 Analog OUT (0 to 20 mA)
<b>DX80G*M6S-PM8</b>	6 Discrete In (PNP/NPN selectable) 6 Discrete Out (PNP)
Nodes	
<b>DX80N*X6S-PM2</b>	4 Discrete IN (PNP/NPN selectable) 4 Discrete OUT (PNP) 2 Analog IN (0 to 20 mA) 2 Analog OUT (0 to 20 mA)
<b>DX80N*X6S-PM8</b>	6 Discrete IN (PNP/NPN selectable) 6 Discrete OUT (PNP)
<b>DX80N*X6S-PM8L</b>	6 Discrete IN (PNP/NPN selectable) 6 Discrete OUT (PNP)

## General

<b>Power</b>	+10 to 30Vdc
<b>Wiring Access</b>	Two ½ inch NPT fittings or external removable terminal strip models available
<b>Housing</b>	Polycarbonate
<b>Antenna Connection</b>	Reverse Polarity SMA
<b>Hardware Interface</b>	Two push buttons LCD screen Two 16 position rotary switches
<b>Software Interface</b>	Local GUI system via push buttons and LCD screen Software UCT tool available for advanced expandability

## Environmental

<b>Rating</b>	<b>Standard Housing version:</b> IEC IP67; NEMA 6 <b>“C” Model Housing version:</b> IEC IP20; NEMA 1
<b>Conditions</b>	<b>Operating Temperature:</b> -40 to +85° C <b>Operating Humidity:</b> 95% max. relative (non-condensing) <b>Radiated Immunity:</b> 10 V/m, 80 to 2700 MHz
<b>Shock and Vibration</b>	<b>Shock:</b> 30 g <b>Vibration:</b> 10 to 60 Hz

## I/O Maps

