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Data Sheet

August 15, 2026

BANNER ENGINEERING

Banner Engineering DX80N9X6S-P8 Sure Cross Performance Node

The Banner Engineering DX80N9X6S-P8 is a Sure Cross Performance Node designed for solid wireless communication in industrial environments. It facilitates reliable data transfer between sensors, controllers, and other devices, enhancing operational efficiency and monitoring capabilities. This node supports various communication protocols and offers extended range for comprehensive network coverage.



MODEL

**Banner Engineering
DX80N9X6S-P8**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DX80N9X6S-P8

LISTING

<https://aumictechlabs.com/products/dx80n9x6s-p8-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Banner Engineering DX80N9X6S-P8 is a Sure Cross Performance Node that is a wireless data acquisition and communication hub in industrial sensor networks. This device bridges sensors, controllers, and industrial equipment through wireless connectivity, enabling real-time monitoring and data-driven operations in demanding field environments across North American installations. Technical Specifications Product Classification Series: Sure Cross Performance Model: DX80N9X6S-P8 Device Type: Wireless Sensor Network Node Manufacturer: Banner Engineering Wireless Communication Protocol Support: Multiple industrial protocols Frequency Band:

Industrial radio bands (standard) Range: Extended coverage for comprehensive network deployment Data Transfer: Reliable sensor-to-controller transmission Electrical Operation Power Input: Specified voltage range and power type Power Consumption: Per device operating profile Connectivity I/O Channels: Sensor and control device interfaces Communication Ports: Multi-protocol support Antenna: Industrial configuration Physical Design Enclosure: Industrial-grade construction Operating Temperature: Industrial temperature range Mounting: Field-deployable configuration Key Features Supports multiple wireless protocols for flexible network architecture Extended transmission range for distributed sensor arrays Industrial-rated enclosure for harsh environments Scalable node architecture for network expansion Direct integration with existing control systems and SCADA platforms Typical Applications Wireless sensor network deployment in manufacturing facilities Remote equipment monitoring and predictive maintenance Real-time data collection from distributed field sensors Industrial IoT and condition-based monitoring systems Compatibility & Integration The DX80N9X6S-P8 integrates with industrial control systems, PLCs, and SCADA architectures. It accommodates a broad range of industrial-grade sensors and supports standard industrial communication protocols for plug-in network integration.

DX80N9X6SP8 Characteristics / Specifications

PARAMETER	VALUE
Model	DX80N9X6S-P8
Instrument Type	Wireless discrete I/O node
Family	Banner Sure Cross Performance DX80
Radio Band	900 MHz ISM
Io Count	up to 12 PNP inputs or outputs total; default 6 in / 6 out
Supply Voltage	10-30 VDC (12-24 VDC $\pm$ 10 percent outside USA)
Current Draw	less than 40 mA max, less than 30 mA typical at 24 VDC (900 MHz)
Transmit Low	250 mW (24 dBm) DX80 compatibility mode
Transmit High	500 mW (27 dBm) conducted
Spread Spectrum	FHSS
Antenna	2 dB antenna supplied
Housing Rating	IEC IP67; NEMA 6
Weight	0.26 kg (0.57 lb)
Mounting	No. 10 or M5, max 0.56 Nm (5 lbf-in)
Electronics Temperature	minus 40 C to +85 C
Lcd Temperature	minus 20 C to +80 C
Humidity	95 percent RH non-condensing
Radiated Immunity	10 V/m EN 61000-4-3
Discrete Input Rating	3 mA max at 30 VDC
Input Sample Rate	62.5 ms
Input On	PNP greater than 4.5 V
Input Off	PNP less than 4 V
Output Update	up to 62.5 ms
Output Rating	100 mA max at 30 VDC PNP
Output Saturation	less than 3 V at 100 mA

PARAMETER	VALUE
Output Leakage	less than 10 uA
Timeout State	outputs OFF after timeout
Interface	two bi-color LEDs, two buttons, six-character LCD
Serial	RS-485
Wiring Access	four PG-7, one 1/2-inch NPT, one 5-pin M12 male QD
Part Number	17457
Literature	Banner Performance P8 Node datasheet p/n 158215
Manufacturer	Banner Engineering

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Performance 900 MHz P8 Node

Overview

The DX80N9X6S-P8 isaSure Cross Performance 900 MHz ISM Node with up to 12 discrete PNP I/O (default 6 in / 6 out without bit-packing). OEM Performance P8 Node datasheet p/n 158215 lists 10-30 VDC supply (12-24 VDC ±10 percent outside USA), 900 MHz current less than 40 mA max / less than 30 mA typical at 24 VDC, IP67 / NEMA 6 housing, 0.26 kg, minus 40 to +85 C electronics and minus 20 to +80 C LCD, 95 percent RH, selectable 250 mW (24 dBm) or 500 mW (27 dBm) transmit, FHSS, 2 dB supplied antenna, discrete inputs 3 mA max at 30 VDC with 62.5 ms sample and PNP ON greater than 4.5 V / OFF less than 4 V, PNP outputs 100 mA at 30 VDC with ON-state saturation less than 3 V at 100 mA and leakage less than 10 uA, RS-485, six-character LCD, two buttons, two bi-color LEDs.

Applications

Wireless discrete I/O in 900 MHz ISM plants, replacing long sensor wiring runs toaSure Cross Gateway.

Key Features

900 MHz Performance Node, up to 12 PNP I/O
10-30 VDC, IP67 / NEMA 6
250 mW or 500 mW selectable transmit
FHSS acknowledged Gateway/Node link
LCD, DIP switches, RS-485

Technical Specifications

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Notes

From Banner Engineering Performance P8 Node datasheet p/n 158215 Rev. P (DX80N9X6S-P8). Site-survey range depends on antenna and line of sight; do not inventaguaranteed km figure beyond the radio-range notes on that sheet.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.