

DX80 Performance Series

Gateways and Nodes



- Create point to multi point networks that distribute I/O over large areas.
- Input and output types include discrete (dry contact, PNP/ NPN), analog (0 to 10 V dc, 0 to 20 mA), temperature (thermocouple and RTD), and pulse counter.
- Enhanced gateways and nodes offer increased range in the 900 MHz frequency band
- High density I/O capacity provides up to 12 discrete inputs or outputs or a mix of discrete and analog I/O
- Universal analog inputs allow current or voltage to be selected in the field

DX80 Performance Gateways, 10-30 V DC

I/O	Frequency	Housing	Models
N/A	900 MHz 2.4 GHz	Low Profile	DX80G9M2S-P DX80G2M2S-P
Inputs: Four selectable discrete, two 0–20 mA or 0–10 V analog Outputs: Four sourcing discrete, two 0–20mA analog	900 MHz 2.4 GHz	IP67	DX80G9M6S-P2 DX80G2M6S-P2
Inputs/Outputs: Up to 12 NPN inputs or up to 12 NMOS outputs, or a mix of inputs and outputs not exceeding 12 I/O points	900 MHz 2.4 GHz	IP67	DX80G9M2S-P7 DX80G2M2S-P7
Inputs/Outputs: Up to 12 PNP inputs or up to 12 PNP outputs, or a mix of inputs and outputs not exceeding 12 I/O points	900 MHz 2.4 GHz	IP67	DX80G9M6S-P8 DX80G2M6S-P8

DX80 Performance Gateways, board only models, 10-30 V DC

I/O	Frequency	Housing	Models
Inputs: Two sourcing discrete, two 0-20 mA analog Outputs: Two sourcing discrete, two 0-20 mA analog	900 MHz 2.4 GHz	Board Module	DX80G9M6S-PB2 DX80G2M6S-PB2

DX80 Performance nodes, board only models, 10-30 V DC

I/O	Frequency	Housing	Models
Inputs: Two NPN discrete, two 0-20 mA analog Outputs: Two NMOS discrete Switch Power: Two	900 MHz 2.4 GHz	Board Module	DX80N9X2S-PB1 DX80N2X2S-PB1
Inputs: Two PNP discrete, two 0-20 mA analog Outputs: Two PNP discrete, two 0-20 mA analog	900 MHz 2.4 GHz	Board Module	DX80N9X6S-PB2 DX80N2X6S-PB2

DX80 Performance nodes, 10-30 V DC (“E” models have integrated batteries)

I/O	Frequency	Models*
Discrete Mode Inputs: Two selectable discrete and two thermistor Outputs: Two NMOS discrete Switch Power: Two Analog Mode Inputs: Two selectable discrete, two analog (0-20 mA or 0-10 V), and two thermistor Outputs: Two NMOS discrete Switch Power: One	900 MHz	DX80N9X2S-P1
	2.4 GHz	DX80N2X2S-P1
	900 MHz	DX80N9X1S-P1E
	2.4 GHz	DX80N2X1S-P1E
Inputs: Four selectable discrete, two 0-20 mA or 0-10 V (universal) analog Outputs: Four PNP discrete, two 0-20mA analog	900 MHz	DX80N9X6S-P2
	2.4 GHz	DX80N2X6S-P2
Inputs: Two selectable discrete, four thermocouple, one thermistor for CJC Outputs: One NMOS discrete	900 MHz	DX80N9X2S-P3
	2.4 GHz	DX80N2X2S-P3
	900 MHz	DX80N9X1S-P3E
	2.4 GHz	DX80N2X1S-P3E
Inputs: Four 3-wire RTDs	900 MHz	DX80N9X2S-P4
	2.4 GHz	DX80N9X1S-P4E
Inputs: Two NPN discrete, four selectable analog (0-20 mA or 0-10 V) Outputs: Two NMOS discrete Switch Power: Two	900 MHz	DX80N9X2S-P5
	2.4 GHz	DX80N2X2S-P5
Inputs: 1-Wire serial interface for one serial sensing device	900 MHz	DX80N9X1S-P6
	2.4 GHz	DX80N2X1S-P6
Inputs/Outputs: Up to 12 NPN inputs or up to 12 NMOS outputs, or a mix of inputs and outputs not exceeding 12 I/O points	900 MHz	DX80N9X2S-P7
	2.4 GHz	DX80N2X2S-P7
Inputs/Outputs: Up to 12 PNP inputs or up to 12 PNP outputs, or a mix of inputs and outputs not exceeding 12 I/O points	900 MHz	DX80N9X6S-P8
	2.4 GHz	DX80N2X6S-P8
Discrete Mode Inputs: One configurable discrete, one thermistor, one asynchronous counter Switch Power Outputs: One Analog Mode: Inputs: One configurable discrete, one configurable analog, one thermistor, one asynchronous counter Switch Power Outputs: One	900 MHz	DX80N9X1S-P14
	2.4 GHz	DX80N2X1S-P14
Inputs: Two selectable discrete Outputs for DC Latch: DC Latch	900 MHz	DX80N9X2S-DCLATCHE
	2.4 GHz	DX80N2X2S-DCLATCHE

DX80 Performance Series Specifications

Range	900 MHz, 1 Watt: Up to 9.6 km (6 miles) 2.4 GHz, 65 mW: Up to 3.2 km (2 miles)
Minimum Separation Distance	900 MHz, 1 Watt: 4.57 m (15 ft) 2.4 GHz 65 mW: 0.3 m (1 ft)
Transmission Power	900 MHz, 1 Watt: 30 dBm (1 W) conducted (up to 36 dBm EIRP) 2.4 GHz, 65 mW: 18 dBm (65 mW) conducted, less than or equal to 20 dBm (100 mW) EIRP
Communication Hardware (RS-485)	Interface: 2-wire half-duplex RS-485 Baud rates: 9.6k, 19.2k (default), or 38.4k Data format: 8 data bits, no parity, 1 stop bit
Supply Voltage	10 to 30 V dc
Interface	Indicators: Two bi-color LEDs Buttons: Two Display: Six character LCD
Operating Conditions	-40 to +85 °C (-40 to +185 °F) (Electronics); -20 to +80 °C (-4 to +176 °F) (LCD) 95% maximum relative humidity (non-condensing) Radiated Immunity: 10 V/m (EN 61000-4-3)
Environmental Rating	DX80 Models: IEC IP67; NEMA 6 “C” Models: IP20; NEMA 1 “E” Models: IP65; NEMA 4X



See Bannerengineering.com for more detailed specifications.