



DXM100-S1R2P

INDUSTRIAL WIRELESS CONTROLLER: DXM SERIES



DXM100 Modbus Slave Device

MultiHop 900 MHz Radio 1W

Inputs: 4 Universal

Outputs: 4 NMOS Discrete, 2 Selectable Analog

SAM4 Processor

Part Number: 95657

CERTIFICATIONS



SPECIFICATIONS

Housing Style	External Terminals
Device Type	Multihop
Input/Output	Analog & Discrete
Analog Inputs	Yes
Analog Outputs	Yes
Discrete Inputs	Yes
Discrete Outputs	Yes
Input Details	4 Universal Inputs
Output Details	4 NMOS Discrete, 2 Selectable Analog
Power Supply	12-30V dc
Environmental Rating (IP)	IP20

Max Operating Temperature (°C)	85
Min Operating Temperature (°C)	-40
Relative Humidity	95%
Point-to-Multipoint Topology	Yes
Point-to-Point Topology	Yes
Star Topology	Yes
Tree Topology	Yes
Feature: Hazardous Area	No
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus/TCP	Yes
RS-232	Yes
RS-485	Yes
Wireless	Yes
Wireless Radio Frequency	900 MHz
1-wire Serial Interface	No

RECOMMENDED PRODUCTS

ADAPTERS, BRACKETS, CLAMPS AND MOUNTING ACCESSORIES

	DIN-35-105 DIN Rail Section; 35mm Design; 105mm long
	DIN-35-140 35 mm DIN Rail Track; 140 mm length track; Accommodates up to 8 MD 14 Amplifiers
	DIN-35-70 35 mm DIN Rail Track; 70 mm length track; Accommodates up to 4 MD 14 Amplifiers
	SMBAMS18RA Bracket: Right-angle SMBAMS series with; 18 mm hole for mounting sensors; Articulation slots for 90 plus degree rotation; 12-ga. (2.6 mm) Cold-rolled Steel

	SMBDX80DIN Bracket: DIN Rail Assembly; For DX80
--	---

ANTENNAS

	BWA-902-C Antenna Omni 900MHz; 2 dBi Rubber Swivel; RP-SMA MALE
	BWA-902-D Antenna 900 MHz 2 dBi Omni Dome RPSMA Box Mount; 18 in Cable
	BWA-902-RA Antenna Omni 900MHz; 1/4 Wave 2 dBi Fixed Right Angle; RP-SMA MALE 40MM
	BWA-905-C Antenna Omni 900MHz; 5 dBi Rubber Swivel; RP-SMA MALE
	BWA-906-A Antenna Omni 900MHz; 6 dBd/8.2 dBi Fiberglass 6-foot; N Female
	BWA-906-AS Antenna Omni 900MHz 6 dBi Fiberglass 23.6 in N female
	BWA-908-AS Antenna Omni 900MHz 8 dBi Fiberglass 6-foot N female
	BWA-9Y10-A Antenna Yagi 900MHz; 10 dBd/12.2 dBi; N FEMALE
	BWA-9Y6-A Antenna Yagi 900 MHz; 6.5 dBd/8.7 dBi; N FEMALE

ANTENNA ACCESSORIES

	BWC-1MRSFRSB0.2 Cable Antenna RG58; RP-SMA TO RP-SMA Female Bulkhead; 0.2 m
	BWC-1MRSFRSB1 Cable Antenna RG58; RP-SMA TO RP-SMA Female Bulkhead; 1 m
	BWC-1MRSFRSB2 Cable Antenna RG58; RP-SMA TO RP-SMA Female Bulkhead; 2 m

	BWC-1MRSFRSB4 Cable Antenna RG58; RP-SMA TO RP-SMA Female Bulkhead; 4 m
	BWC-1MRSMN05 Cable Antenna LMR200; RP-SMA TO N Male; 0.5 m
	BWC-1MRSMN2 Cable Antenna LMR200; RP-SMA TO N Male; 2 m
	BWC-2MRSFRS12 Cable Antenna PFP195; RP-SMA Male to RP-SMA Female; 40 ft
	BWC-2MRSFRS3 Cable Antenna PFP195; RP-SMA Male to RP-SMA Female; 10 ft
	BWC-2MRSFRS6 Cable Antenna PFP195; RP-SMA Male to RP-SMA Female; 20 ft
	BWC-2MRSFRS9 Cable Antenna PFP195; RP-SMA Male to RP-SMA Female; 30 ft
	BWC-4MNFN15 Cable Antenna LMR400; N Male to N Female; 15 m
	BWC-4MNFN3 Cable Antenna LMR400; N Male to N Female; 3 m
	BWC-4MNFN30 Cable Antenna LMR400; N Male to N Female; 30 m
	BWC-4MNFN6 Cable Antenna LMR400; N Male to N Female; 6 m

HARDWARE

	BWA-HW-001 Mounting Hardware; M5 bolt set
---	---

PANELS FOR ENCLOSURES

	BWA-SOLAR PANEL 20W Solar Panel; 12V 20W Multicrystalline; 573 x 357 x 30 mm; (L) style mounting bracket included
	BWA-SOLAR PANEL 3W Solar Panel; 12V 3W Multicrystalline; 188 x 195 x 15 mm; Wall/Pole clamp style mounting bracket included
	BWA-SOLAR PANEL 5W Solar Panel; 12V 5W Multicrystalline; 270 x 222 x 17 mm; Wall/Pole clamp style mounting bracket included

CONTINUOUS POWER SUPPLY

	PS24W DC Power Supply; 24Vdc 1A; Wall Plug
	PSDINP-24-06 DC Power Supply Din Rail Mount C1D2 ; Input 100-240 V ac 50/60 Hz; Output 24-28 Vdc 0.6 Amps 15W; Terminal Block Connectors
	PSDINP-24-13 DC Power Supply Din Rail Mount C1D2 ; Input 100-240 V ac 50/60 Hz; Output 24-28 Vdc 1.3 Amps 30W; Terminal Block Connectors
	PSDINP-24-25 DC Power Supply Din Rail Mount C1D2 ; Input 100-240 V ac 50/60 Hz; Output 24-28 Vdc 2.5 Amps 60W; Terminal Block Connectors

ACCESSORIES

 BWA-E2M	BWA-E2M Ethernet Cable; RJ45 to M12 Industrial; Straight; 2m
 BWA-E8M	BWA-E8M Ethernet Cable; RJ45 to M12 Industrial; Straight; 8m
 BWA-EX2M	BWA-EX2M Ethernet Cable; RJ45 to M12 Industrial; Crossover; 2m
	BWA-RELAY-12V BWA-RELAY-12V

	BWA-RELAY-24V BWA-RELAY-24V
	BWA-RH1B-UDC12V Power Relay, SPDT, 12VDC, 10A; Plug In
	BWA-RH1B-UDC24V Power Relay; SPDT; 24 VDC; 10A; PLUG IN
	BWA-SH1B-05 Relay Socket; 5 Pin; 10A; Plug in
	BWA-SOLAR CNTRL-12V Solar Controller; 6A Load Current 12 V System Voltage; Recommended for 20 watts or less Solar Panel; and Sealed Lead Acid Battery (SLA)
	BWC-LFNBMN-DC Surge Suppressor Bulkhead; N Female to N Male; DC Blocking
	BWC-LMRSFRPB Surge Suppressor Bulkhead; RP-SMA
	IB6RP Interface box; Six Discrete PNP inputs; Six Independent SPST relay outputs; Six Amber Indicator LEDs Signal



Banner Engineering Corp. | 9714 Tenth Avenue North | Minneapolis, MN 55441 | United States of America