

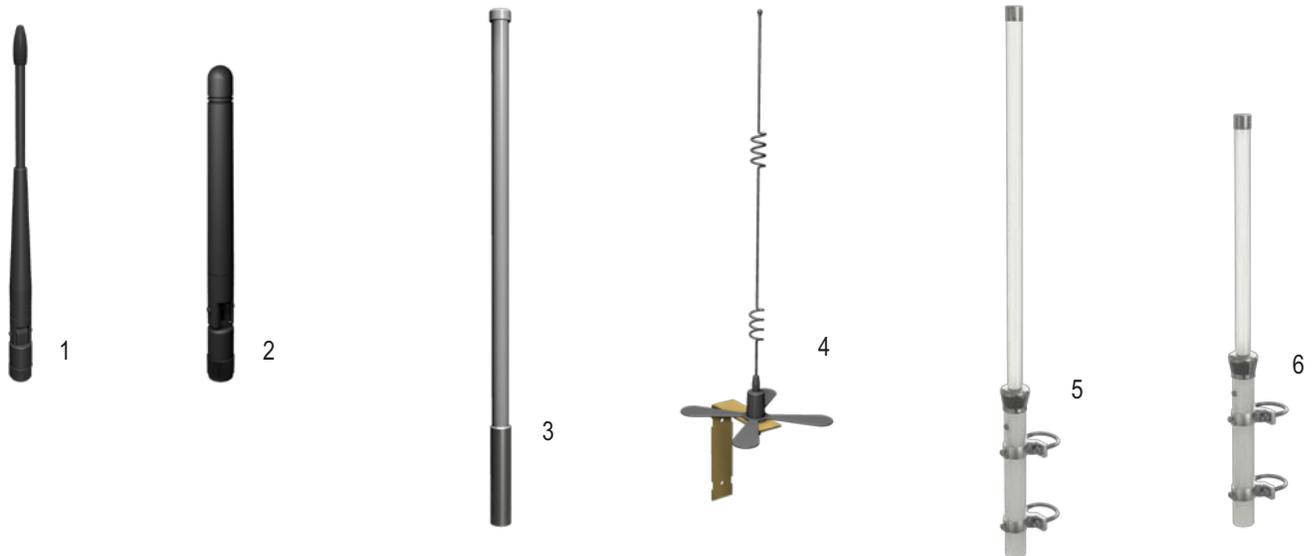
Antennas and Accessories



In the United States, the FCC limits the transmitted power levels to 30 dBm EIRP, or approximately 1 Watt. When using SureCross wireless products in other countries, do not exceed the transmitted power levels allowed by the agencies in those countries that govern wireless communication.

Antennas

Omni-Directional Antennas

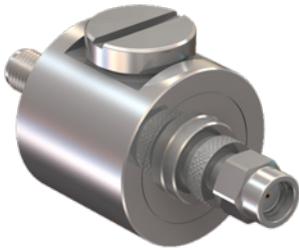


Directional (Yagi) Antennas



Part No	Model No	Description
1	76908	BWA-902-C 902-928 MHz, 2 dBi, RP-SMA Male (ships with 900 MHz DX80 devices)
2	77816	BWA-202-C 2.4 GHz, 2 dBi, RP-SMA Male, Rubber swivel, 3 1/4" (ships with 2.4 GHz DX80 devices)
	77817	BWA-205-C 2.4 GHz, 5 dBi, RP-SMA Male, Rubber swivel, 6 1/2"
	77818	BWA-207-C 2.4 GHz, 7 dBi, RP-SMA Male, Rubber swivel, 9 1/4"
3	77481	BWA-906-A 902-928 MHz, 6 dBd, N Female, Fiberglass, 71.5" Outdoor
4	77819	BWA-905-B 902-928 MHz, 5 dBd/7.2 dBi, N Female, with Ground Plane, 32" Indoor/Outdoor
5	81080	BWA-208-A 2.4 GHz, 8.5 dBi, N Female, 24" Indoor/Outdoor
6	81081	BWA-206-A 2.4 GHz, 6 dBi, N Female, 16" Indoor/Outdoor
7	77479	BWA-9Y6-A 890-960 MHz, 6.5 dBd, N Female, 6.8" x 13" Outdoor
8	77480	BWA-9Y10-A 890-960 MHz, 10 dBd, N Female, 6.8" x 24" Outdoor

Surge Suppressors



Part No: 79296
 Model No: BWC-LMRSFRPB
 Description: Surge Suppressor, bulkhead, RP-SMA Type



Part No: 78548
 Model No: BWC-LFNBMN
 Description: Surge Suppressor, bulkhead, N-Type



Part No: 12477
 Model No: BWC-LFNBMN-DC
 Description: Surge Suppressor, bulkhead, N-Type, dc Blocking

Antenna Cables



Part No	Model No	Description
77486	BWC-1MRSMN05	LMR100 RP-SMA to N Male, 0.5M
77820	BWC-1MRSMN2	LMR100 RP-SMA to N Male, 2M



Part No	Model No	Description
78544	BWC-1MRSFRSB0.2	RG58, RP-SMA to RP-SMAF Bulkhead, 0.2M
78337	BWC-1MRSFRSB1	RG58, RP-SMA to RP-SMAF Bulkhead, 1M
78338	BWC-1MRSFRSB2	RG58, RP-SMA to RP-SMAF Bulkhead, 2M
77488	BWC-1MRSFRSB4	RG58, RP-SMA to RP-SMAF Bulkhead, 4M



Part No	Model No	Description
77489	BWC-4MNFN3	LMR400 N Male to N Female, 3M
77490	BWC-4MNFN6	LMR400 N Male to N Female, 6M
77821	BWC-4MNFN15	LMR400 N Male to N Female, 15M
77822	BWC-4MNFN30	LMR400 N Male to N Female, 30M

DX85 Remote Modbus RTU I/O Devices

These remote I/O devices have a Modbus interface and are used to expand the I/O of the Gateway device or the Modbus host.



DX85



DX85...C

DX85 Part No.	DX85...C Part No.	Model No	Description
77675	10202	DX85M6P6	DX85 Expanded Remote I/O, 6 Discrete IN, 6 Discrete OUT
77676	10201	DX85M4P4M2M2	DX85 Expanded Remote I/O, 4 Discrete IN, 4 Discrete OUT, 2 Analog IN, 2 Analog OUT (0-20 mA)
79306	10204	DX85M4P8	DX85 Expanded Remote I/O, 4 Discrete IN, 8 Discrete OUT
79307	10203	DX85M8P4	DX85 Expanded Remote I/O, 8 Discrete IN, 4 Discrete OUT
79966	10205	DX85M0P0M4M4	DX85 Expanded Remote I/O, 4 Analog IN, 4 Analog OUT (0-20 mA)

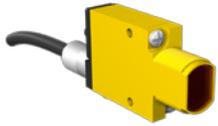
Note: Add a "C" to the end of any DX85 model to order that I/O mix with an IP20 housing. The IP20 models are Class I, Division 2 certified. All list prices and data sheets remain the same for either the IP67 or the IP20 housing.

Enclosures, Relay Boxes



Part No.	Model No.	Description
11320	BWA-EF14128	Enclosure Fiberglass Hinged 14"x12"x8"
11321	BWA-EF1086	Enclosure Fiberglass Hinged 10"x8"x6"
11322	BWA-EF866	Enclosure Fiberglass Hinged 8"x6"x6"
11326	BWA-PA1412	Panel, 14 x 12
11327	BWA-PA108	Panel, 10 x 8
11328	BWA-PA86	Panel, 8 x 6
11329	BWA-PM12	Pole Mount, 12 inch
11340	BWA-PM8	Pole Mount, 8 inch
11341	BWA-PM6	Pole Mount, 6 inch
11346	IB6RP	Interface Relay Box, 18-26V dc inputs, isolated relay output

FlexPower™ Sensors



Part No	Model No	Description
78447	SM312LPQD-78447	MINI-BEAM, Low Power, 5V, Polarized Retroreflective, 3 m
78419	SM312DQD-78419	MINI-BEAM, Low Power, 5V, Diffuse, 38 cm



Banner Part No: 80922
 Model No: T30UFDNCQ
 Description: Ultra-Sonic, T30U, 3.6 to 5V Low Power, 300 mm to 3 m Range, 1-wire serial interface

Part No	Model No	Description
79610	M12FTH1Q	Temperature and Humidity Sensor, ±2% Accuracy, 1-wire serial interface
81050	M12FTH2Q	Temperature and Humidity Sensor, ±3.5% Accuracy, 1-wire serial interface

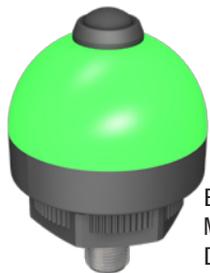


Banner Part No: 75390
 Model No: QT50ULBQ6-75390
 Description: Ultra-Sonic, QT50U, 200 mm to 8 m Range

[Banner Humidity Sensor Calibration Statement](#). This calibration statement (also available online) lists the chain with which the calibration of Banner humidity sensors is traceable to NIST standards.



Banner Part No: 10710 (Emitter), 10711 (Receiver)
 Model No: QS30WEQ (Emitter), QS30WRQ (Receiver)
 Description: WORLD-BEAM, QS30, Range up to 100 feet



Banner Part No: 11658
 Model No: K50FGYRPB1Q
 Description: K50 EZ-LIGHT, 3 Color, with Push Button

Other Sensors or Sensor Components

Part No	Model No	Description
10406	BWA-THERMISTOR-001	NTC Thermistor, 2 KOhms, +/-0.2%C
81930	FTH-FIL-001	Temperature and Humidity Sensor Filter, Aluminum Grill Filter Cap (default filter cap)
81931	FTH-FIL-002	Temperature and Humidity Sensor Filter, Stainless Steel Sintered Filter, 10 micrometer porosity

FlexPower™ Supplies and Replacement Batteries



Part No: 76972
 Model No: DX81
 Description: Battery Supply Module with mounting hardware

Part No: 82864
 Model No: DX81H
 Description: Battery Supply Module with mounting hardware, for DX99 polycarbonate housing devices



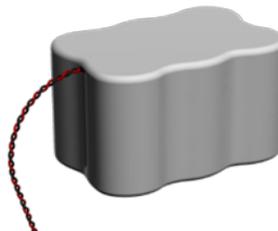
Part No: 77674
 Model No: DX81P6
 Description: Battery Supply Module, 6 "D" cells, with mounting hardware



Part No: 81057
 Model No: BWA-SOLAR-001
 Description: FlexPower Solar Supply, includes panel (13 11/16" x 15 3/16"), controller, rechargeable battery pack, mounting hardware



Part No: 78261
 Model No: BWA-BATT-001
 Description: Lithium "D" cell, single



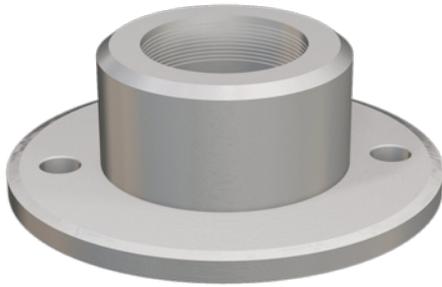
Part No: 81394
 Model No: BWA-BATT-002
 Description: Lithium "D" cells, 6-pack for DX81P6 Battery Supply Module



Part No: 78473
 Model No: BWA-BATT-003
 Description: Rechargeable battery pack, controller, wiring

Part No.	Model No.	Item
10250	BWA-SOLAR-CHARGER	Wall charger for BWA-BATT-003 battery pack.
83245	BWA-SPANEL-001	Solar Panel
65837	SPS101Q	DC Power Supply, 120 mA, 12–30V dc, 5-pin Euro-style QD
65848	SPS101QP	DC Power Supply, 120 mA, 12–30V dc, 5-pin Euro-style QD and pigtail
77422	PS24W	DC Power Supply, 500 mA, 24V dc, Demo kit power supply
74321	EZAC-E-QE5	DC Power Supply, 700 mA, 24V dc, 5-pin Euro-style QD, Hardwired AC power connection
73466	EZAC-E-QE5-QS5	DC Power Supply, 700 mA, 24V dc, 5-pin Euro-style QD, 5-pin Mini QD AC power connection
76809	PSDINA-24-4	DC Power Supply, 4 Amps, 24V dc, Terminal block connection, Converts 85-264V ac 50/60 Hz
11280	PS24DX	DC Power Supply, 200 mA, 24V dc, in the DX80 low-profile housing

Metal Housing Accessories



Banner Part No: 12533
 Model No: BWA-HW-019
 Description: M36 Flange Mount



Banner Part No: 12534
 Model No: BWA-HW-020
 Description: U-Bolt Mounting Bracket



Banner Part No: 11834
 Model No: BWA-HW-016
 Description: Antenna Feedthrough, SS, 1/2" NPT

Banner Part No: 11835
 Model No: BWA-HW-017
 Description: Antenna Feedthrough, SS, 3/4" NPT

Cables and Connectors



Part No: 81325
 Model No: BWA-HW-006
 Description: Adapter cable, USB to RS485, for use with the User Configuration Tool software (UCT)



Part No: 83265
 Model No: CSRB-M1250M125.47M125.73
 Description: Splitter cable, 5-pin Euro-style QD, No trunk male, two female branches, black. Most commonly used with solar and other *FlexPower* devices.



Part No: 75286
 Model No: CSB-M1240M1241
 Description: Splitter cable, 4-pin Euro-style QD, No trunk male, two female branches, yellow. Must be used to connect the Data Radio to the 10-30V dc DX80 Gateway only.



Part No: 14642
 Model No: BWA-HW-026
 Description: Splitter cable, wall plug for external power split to 5-pin Euro-style male and 5-pin Euro female (to power a M-H at 1 Watt while configuring it through the MHCT)

Other Splitter Cables

Part No.	Model No.	Other Splitter Cables
13250	BWA-DRSPLITTER	Splitter cable, DB9 Female (RS232) trunk to 5-pin Euro-style male and female
13805	CSRB-M1253.28M1253.28M1253.28	Splitter cable, for dual power sources, 5-pin Euro female to 2 5-pin Euro males

Ethernet Cables

Part No.	Model No.	Description
77669	BWA-E2M	Ethernet cable, RSCD RJ45 440, 2M
78469	BWA-E8M	Ethernet cable, RSCD RJ45 440, 8M
78467	BWA-EX2M	Ethernet cable, crossover, RSCD RJ45CR 440, 2M

Euro-Style Cables

Part No.	Model No.	Description
78382	BWA-QD5.5	Prewired 5-pin Euro connector, 1/2-14 NBSM
78383	BWA-QD8.5	Prewired, 8-pin Euro connector, 1/2-14 NBSM
78384	BWA-QD12.5	Prewired 12-pin Euro connector, 1/2-14 NBSM
58912	FIC-M12F4	Euro-Style Field-Wireable Connector 4-pin Female Straight
62837	DEUR-506.6C	Cable, 5-pin Euro-style, double ended, male/female, 2m
72333	DEE2R-51D	Cable, 5-pin Euro-style, double ended, male/female, 0.3m
72334	DEE2R-53D	Cable, 5-pin Euro-style, double ended, male/female, 1m
72636	DEE2R-58D	Cable, 5-pin Euro-style, double ended, male/female, 2.4m
71038	MQDC1-501.5	Cable, 5-pin Euro-style, single ended, female, 0.5m
12597	MQDMC-401	Cable, 5-pin Euro-style, single ended, male, 0.5m, longer pigtails for connecting to the DX80...C
51127	MQDC1-506	Cable, 5-pin Euro-style, single ended, female, 2m
47812	MQDC1-515	Cable, 5-pin Euro-style, single ended, female, 5m
47814	MQDC1-530	Cable, 5-pin Euro-style, single ended, female, 9m
51128	MQDC1-506RA	Cable, 5-pin Euro-style, single ended, female, right-angle, 2m
47813	MQDC1-515RA	Cable, 5-pin Euro-style, single ended, female, right-angle, 5m
47815	MQDC1-530RA	Cable, 5-pin Euro-style, single ended, female, right-angle, 9m

Right-angle cordsets are not compatible with the DX70 devices.

When facing the Node or Gateway toward you, and the quick disconnect connection is facing down, the right-angle cables exit to the right.

Miscellaneous Cables

Part No.	Model No.	Description
79985	BWA-RIBBON-001	Ribbon cable, 20-pin DBL socket
10200	BWA-HW-010	Cable, FlexPower Current Monitoring

Hardware Packs and Replacement Parts

Part No.	Model No.		Items
76907	BWA-HW-001	Mounting Hardware Kit	Screw, M5-0.8 x 25mm, SS (4) Screw, M5-0.8 x 16mm, SS (4) Hex nut, M5-0.8mm, SS (4) Bolt, #8-32 x 3/4", SS (4)
76906	BWA-HW-002	DX80 Access Hardware Kit	Plastic threaded plugs, PG-7 (4) Nylon gland fittings, PG-7 (4) Hex nuts, PG-7 (4) Plug, 1/2" NPT Nylon gland fitting, 1/2" NPT
76910	BWA-HW-003	PTFE Tape	
16328	BWA-HW-004	Replacement Seals	O-ring, rotary access cover, PG21 (2) O-ring, body gasket (2) Access cover, rotary, clear plastic (2)
83244	BWA-HW-009	Solar Assembly Hardware Pack	Includes brackets, bolts, set screws
79438	BWA-CG.5-10	Cable Glands, 1/2-inch NPT	10 pieces, cordgrips for cable diameters 0.17" to 0.45"
79984	BWA-HP.5-10	Dummy Hole Plugs, 1/2-inch NPT	10 pieces
81233	BWA-HW-007	Housing Kit, DX80	DX80 top and bottom (10)
80850	BWA-HW-008	Housing Kit, DX81	DX81 top and bottom (10)
77161	SMBDX80DIN	Bracket assembly, DIN rail, flat mount	
81930	FTH-FIL-001	Temperature and Humidity Sensor	Aluminum Grill Filter Cap (default filter cap)
81931	FTH-FIL-002	Filters	Stainless Steel Sintered Filter, 10 micrometer porosity
10283	BWA-HW-011	Terminal Block Headers, IP20, 2 pack	
10878	BWA-HW-012	DX99 Antenna Extension Pack	Screw, M4-0.7 x 20, pan head, black steel Flexible Antenna Cable, 12", SMA male to SMA female