

工業無線傳輸模組



單點對單點模組
DX70



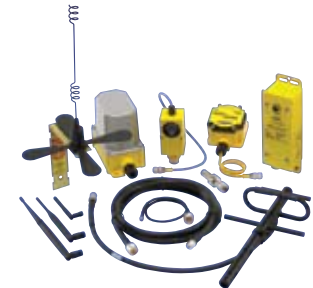
單點對多點模組
DX80



本質安全型模組
DX99



多點資料傳輸模組
MultiHop Data Radio










附件

- 通用型感測器
- 光纖放大感測器
- 特殊用途感測器
- 量測與檢測型感測器
- 視覺感測器
- 工業無線傳輸模組**
- 工業級指示燈
- 安全光幕
- 安全雷射區域掃描器
- 安全控制器與模組
- 安全雙手控制模組
- 安全插銷開關
- 安全急停產品

- 工業無線傳輸模組**
- DX70
- DX80
- DX99

SureCross™ Wireless Family Features

MultiHop Radio IP67	DX80 IP67	DX80..C IP20 CID2	DX80 IP67	DX80..C IP20 CID2	DX99 IP67 CID1	DX70 IP67
						
FlexPower: 10 to 30V dc Battery Solar	Gateways FlexPower: 10 to 30V dc Solar		Nodes FlexPower: 10 to 30V dc Battery Solar		Intrinsically Safe Nodes FlexPower: Battery	Power: 10 to 30V dc
Data: RS-232 RS-485 Ethernet (900 MHz only)	I/O: Discrete Analog Networks: Modbus RTU Master & Slave EtherNet/IP Modbus TCP/IP		I/O: Discrete Analog Counter Temp — Thermocouple RTD Temp and relative humidity		I/O: Discrete Analog Temp — Thermocouple RTD	I/O: Discrete Analog

SureCross™ DX70 單點對單點模組

- DX70無線傳輸模組提供使用者經濟簡便的解決方案
- DX70無線傳輸模組，在同一頻道上為一台通道模組與一台節點模組雙向傳輸
- 利用跳頻技術（FHSS）分時多工（TDMA），可於工業環境中穩定傳輸I/O資料
- DX70模組支援數位訊號、類比訊號雙向傳輸
- 擁有堅固且達IP67防水等級的外殼



無線模組應用於無人搬運車

DX70 Point-to-Point

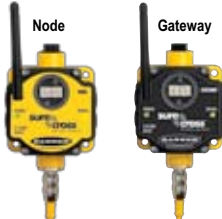


無線模組應用於旋轉平台



無線模組應用於空調系統

DX70, 10-30V dc

	頻率	I/O	通道模組型號	節點模組型號
	2.4 GHz	Discrete: Four selectable inputs, four PNP outputs Analog: Two selectable inputs, two 0-20 mA outputs	DX70G2X6S4P4M2M2	DX70N2X6S4P4M2M2
	2.4 GHz	Gateway Discrete: Four selectable inputs, eight PNP outputs Node Discrete: Eight selectable inputs, four PNP outputs	DX70G2X6S4P8	DX70N2X6S8P4
			* 此型號無Link Loss功能	

SureCross™ DX80 單點對多點模組

- 工業無線 I/O 網路，能夠在嚴酷的環境下執行，可節省昂貴的線材費用
- 基本的網路包括通道系統控制和一個或多個節點，可達到遠端監視和遠端控制 I/O
- 節點模組設置容易，便可與通道模組傳遞資料
- 通道模組與節點模組為雙向傳輸
- 利用跳頻技術 (FHSS) 分時多工 (TDMI)，可於工業環境中穩定傳輸 I/O 資料
- FlexPower™ 模組支援 PC+10~30V，太陽能板、電池模組
- 擁有堅固且達 IP67 防水等級的外殼

- 通用型感測器
- 光纖放大型感測器
- 特殊用途感測器
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DX85 Modbus RTU Remote I/O
Used to expand I/O capacity when connected to a Data Radio or Gateway

User Configuration Tool RS-485 to USB Adapter Cable

BWA-HW-006 RS-485 to USB adapter cable is used to connect the DX80 Gateway to a computer. Download your free configuration software at bannerengineering.com/wireless



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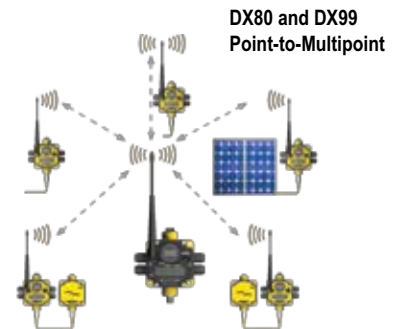
通道模組 (Gateway)

- 通道模組為無線網路系統的主站
- 具有 Modbus RTU 485 通訊協定
- 具有數位及類比等多種 I/O 點
- IP20 型式通過 Class I Div 2 areas 場合使用


節點模組 (Node)

- 節點模組為無線網路系統的分站
- 具有多種電源選擇
- 具有數位及類比等多種 I/O 點
- IP20 型式通過 Class I Div 2 areas 場合使用



DX80 通道模組與節點模組




DX80 EtherNet/IP and Modbus TCP 通道模組

	頻率	I/O	型號
 DX80P2T6S DX80P9T6S DX83	2.4 GHz	DX80 GatewayPro Modbus/TCP to EtherNet/IP protocol converter	DX80P2T6S
	No Radio	Protocol Conversion: Modbus RTU to Modbus TCP/IP or EtherNet/IP	DX83T
		Advanced user configuration model	DX83A

DX80 Modbus RTU Gateway 通道模組, 10–30V dc



	頻率	防水等級	I/O	型號
 DX80 IP67	2.4 GHz	IP67	Discrete: Six selectable inputs, six PNP outputs	DX80G2M6S6P6
		IP20		DX80G2M6S6P6C
	2.4 GHz	IP67	Discrete: Six selectable inputs, six NPN outputs	DX80G2M6S6N6
		IP20		DX80G2M6S6N6C
	2.4 GHz	IP67	Analog: Four inputs, four outputs 0-20 mA	DX80G2M6S0P0M4M4
		IP20		DX80G2M6S0P0M4M4C
 DX80..C IP20 External Terminal Strips CID2 certified	2.4 GHz	IP67	Analog: Four inputs, four outputs 0-10V	DX80G2M6S0P0V4V4
		IP20		DX80G2M6S0P0V4V4C
	2.4 GHz	IP67	Discrete: Four selectable inputs, four PNP outputs Analog: Two inputs, two outputs 0-20 mA	DX80G2M6S4P4M2M2
		IP20		DX80G2M6S4P4M2M2C
	2.4 GHz	IP67	Discrete: Four selectable inputs, four PNP outputs Analog: Two inputs, two outputs 0-10V	DX80G2M6S4P4V2V2
		IP20		DX80G2M6S4P4V2V2C
	2.4 GHz	IP67	Discrete: Eight selectable inputs, four PNP outputs (When your wireless network does not include a host system, eight input/four output Gateway must be mapped to the four input/eight output node.)	DX80G2M6S8P4
		IP20		DX80G2M6S8P4C
	2.4 GHz	IP67	Discrete: Four selectable inputs, eight PNP outputs (When your wireless network does not include a host system, the four input/eight output Gateway must be mapped to the eight input/four output node.)	DX80G2M6S4P8
		IP20		DX80G2M6S4P8C

DX80 Performance Gateway 通道模組

	頻率	I/O		型號
	2.4 GHz	Discrete : 12 PNP (Inputs+Outputs=12 max)		DX80G2X2S-P8
	2.4 GHz	Discrete : 4 PNP Inputs , 4 PNP Outputs	Analog : 2 Inputs , 2 Outputs(0-20mA or 0-10v)	DX80G2M2S-P2
	2.4 GHz	No I/O		DX80G2M2S-P


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 安全急停產品

DX80 Nodes 節點模組, 10 – 30 Vdc—Analog and Discrete


	頻率	防水等級	I/O	型號
	2.4 GHz	IP67	Discrete : Four selectable inputs, four PNP outputs Analog : Two inputs, two outputs (0-20 mA)	DX80N2X6S4P4M2M2
		IP20		DX80N2X6S4P4M2M2C
	2.4 GHz	IP67	Discrete : Four selectable inputs, four PNP outputs Analog : Two inputs, two outputs (0-10V)	DX80N2X6S4P4V2V2
		IP20		DX80N2X6S4P4V2V2C

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DX80
 DX99



DX80 Nodes 節點模組, FlexPower—Analog and Discrete

	頻率	防水等級	I/O	型號
	2.4 GHz	IP67	Discrete : Two selectable inputs, two NMOS sinking outputs Analog : Two inputs (0-20 mA, depending on configuration) Switched Power Outputs	DX80N2X2S2N2M2
		IP20		DX80N2X2S2N2M2C
	2.4 GHz	IP67	Discrete : Two selectable inputs, two NMOS sinking outputs Analog : Two 0-10V inputs (depending on configuration) Switched Power Outputs	DX80N2X2S2N2V2
		IP20		DX80N2X2S2N2V2C



FlexPower™ Nodes 節點模組 with Switched Power Outputs

	頻率	防水等級	I/O	型號
	2.4 GHz	IP67	Discrete: Two selectable inputs, one NMOS sinking output Analog: One input (0-20 mA) Switched Power Outputs Battery integrated into the housing	DX80N2X1S2N1M1
	2.4 GHz		Discrete: Two selectable inputs, one NMOS sinking output Analog: One input (0-10 V) Switched Power Outputs	DX80N2X1S2N1V1

DX80 Nodes 節點模組, 10-30V dc—Discrete


	頻率	防水等級	I/O	型號
	2.4 GHz	IP67	Discrete: Six selectable inputs, six PNP outputs	DX80N2X6S6P6
		IP20		DX80N2X6S6P6C
	2.4 GHz	IP67	Discrete: Six selectable inputs, six NPN outputs	DX80N2X6S6N6
		IP20		DX80N2X6S6N6C
	2.4 GHz	IP67	Discrete: Eight selectable inputs, four PNP outputs (When your wireless network does not include a host system, the eight input/four output node must be mapped to the four input/eight output Gateway.)	DX80N2X6S8P4
		IP20		DX80N2X6S8P4C
	2.4 GHz	IP67	Discrete: Four selectable inputs, eight PNP outputs (When your wireless network does not include a host system, the four input/eight output node must be mapped to the eight input/four output Gateway.)	DX80N2X6S4P8
		IP20		DX80N2X6S4P8C

DX80 Nodes 節點模組, 10-30V dc—Analog

	頻率	防水等級	I/O	型號
 DX80 Node IP67	2.4 GHz	IP67	Analog: Four inputs, four outputs (0-20 mA)	DX80N2X6S0P0M4M4
		IP20		DX80N2X6S0P0M4M4C
 DX80 Node IP20 (CID2 certified)	2.4 GHz	IP67	Analog: Four inputs, four outputs (0-10V)	DX80N2X6S0P0V4V4
		IP20		DX80N2X6S0P0V4V4C


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DX80 Couter Nodes 計數器型節點模組, FlexPower Nodes


	頻率	防水等級	I/O	計數器輸入	型號
 DX80N9X1S2A1	2.4 GHz	IP67	Discrete: Two selectable inputs, two NMOS sinking outputs Counter: Two selectable inputs	User selectable 10 kHz event counter(s) 25 kHz frequency counter(s)	DX80N2X2S4A2
		IP20			DX80N2X2S4A2C
	2.4 GHz	IP67	Discrete: One selectable inputs, one NMOS sinking output Counter: One selectable input Battery integrated into the housing		DX80N2X1S2A1

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DX80 Performance Nodes 節點模組

	頻率	I/O		型號
	2.4 GHz	Discrete : 12 NPN (Inputs=12 max) , 12 NMOS (Outputs=12 max)		DX80N2X2S-P7
	2.4 GHz	Discrete : 12 PNP (Inputs=12 max) , 12 PNP (Outputs=12 max)		DX80N2X2S-P8
	2.4 GHz	Discrete : 4 PNP Inputs , 4 PNP Outputs	Analog: 2 Inputs , 2 Outputs(4-20mA or 0-10v)	DX80N2X2S-P2
	2.4 GHz	Discrete : 2 NPN Inputs , 2 NMOS Outputs	Thermocouple : 4 Inputs	DX80N2X2S-P3
	2.4 GHz	PT100 (RTD) (3 wires) : 4 Inputs		DX80N2X2S-P4


太陽能型 DX80 節點模組 Nodes





	頻率	I/O	型號
DX80N9X2S-CS1 and BWA-SOLAR-001 	2.4 GHz	Discrete Inputs: Two selectable Switch Power: One continuous Analog Inputs: Two 0–20 mA Thermistor: One Battery Status: One Discrete Output: One NMOS sinking	DX80N2X2S-CS1

溫度型 DX80 節點模組, FlexPower Nodes


	頻率	防水等級	I/O	型號
DX80N2X2S2N2TC 	2.4 GHz	IP67	Thermocouple: Three inputs, one thermistor CJC input Discrete: Two selectable inputs, two NMOS sinking outputs	DX80N2X2S2N2T
		IP20		DX80N2X2S2N2TC
	2.4 GHz	IP67	RTD: Four three-wire inputs	DX80N2X2S0P0R
		IP20		DX80N2X2S0P0RC

溫濕度型 DX80 節點模組, FlexPower Nodes

	頻率	防水等級	I/O	型號
	2.4 GHz	IP67	Two temp/RH FlexSensor inputs	DX80N2X2S2S
	2.4 GHz	IP67	One temp/RH FlexSensor inputs	DX80N2X1S1S







FlexSensor 專用感測器	
T30UFDNCQ Discrete, ultrasonic, 3 m range	
M12FTH1Q Temperature and relative humidity sensor ±2%	
M12FTH2Q Temperature and relative humidity sensor ±3.5% (Both offer NIST traceability)	
QS30WEQ (emitter) QS30WRQ (receiver) Photoelectric pair up to 100' range	

M-GAGE™ DX80 節點模組

	頻率	防水等級	描述	型號
 <p>DX80N2X1W0P0ZR</p>	2.4 GHz	IP67	M-GAGE sensor with an internal antenna and a battery integrated into an easy to embed Node housing	DX80N2X1W0P0ZR

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DX85 Modbus RTU Remote I/O

	防水等級	I/O	型號
 <p>DX85</p>	IP67	Discrete: Six PNP inputs, six PNP outputs	DX85M6P6
	IP20		DX85M6P6C
 <p>DX85</p>	IP67	Analog: Four inputs, four 0-20 mA outputs	DX85M0P0M4M4
	IP20		DX85M0P0M4M4C
 <p>DX85</p>	IP67	Discrete: Four PNP inputs, four PNP outputs Analog: Two inputs, two 0-20 mA outputs	DX85M4P4M2M2
	IP20		DX85M4P4M2M2C
 <p>DX85..C</p>	IP67	Discrete: Eight PNP inputs, four PNP outputs (When your wireless network does not include a host system, the eight input/four output devices must be mapped to the four input/eight output devices.)	DX85M8P4
	IP20		DX85M8P4C
 <p>DX85..C</p>	IP67	Discrete: Four sourcing inputs, eight sourcing outputs (When your wireless network does not include a host system, the four input/eight output devices must be mapped to the eight input/four output devices.)	DX85M4P8
	IP20		DX85M4P8C
 <p>DX85..C</p>	IP67	Discrete I/O: Up to 12 sinking inputs or up to 12 NMOS sinking outputs (for a total of 12 I/O)	DX85M-P7
	IP67		Discrete I/O: Up to 12 sourcing inputs or up to 12 sourcing outputs (for a total of 12 I/O)

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SureCross™ DX99

本質安全型模組


- DX99是最先進的無線通訊技術，結合了FlexPower和本質安全的技術
- DX99各模組皆通過防爆測試認證Class I Division 1 and ATEX Zone 0 locations
- DX99 FlexPower節點模組外殼材質為金屬和聚碳酸酯
- DX99 支援數位訊號、類比訊號並可外接熱電偶，PT100測溫棒



DX99 本質安全型模組- 聚碳酸酯外殼

	頻率	放大電壓	安全認證	I/O	型號
	2.4 GHz	18V	Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1; Ex ia IIC T4 AEx ia IIC T4 LCIE/ATEX Zone 0 (Group IIC) and Zone 20 (Group II) II 1 GD Ex ia IIC T4 Ex iaD 20 IP68 T82°C	Discrete: Two selectable inputs Analog: Two inputs (0-20 mA)	DX99N2X2S2N0M2X0D2
	2.4 GHz	10V		DX99N2X2S2N0M2X0D1	
	2.4 GHz	18V		Discrete: Two selectable inputs Analog: Two inputs (0-10 mA)	DX99N2X2S2N0V2X0D2
	2.4 GHz	10V		DX99N2X2S2N0V2X0D1	
	2.4 GHz	N/A		Discrete: Two selectable inputs Thermocouple: Three inputs, one thermistor CJC input	DX99N2X2S2N0T4X0D0
	2.4 GHz	N/A		RTD: Four three-wire inputs	DX99N2X2S0N0R4X0D0
	2.4 GHz	N/A		2 Bridge inputs 2 Discrete Sinking inputs	DX99N2X2S0N0B2X0D0

DX99 本質安全型模組- 金屬外殼

	頻率	放大電壓	安全認證	I/O	型號
 <p>DX99N9X1S2N0M2X0B1</p>	2.4 GHz	10V	Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1; Ex ia IIC T4 AEx ia IIC T4	Discrete: Two inputs Analog: Two 0-20 mA inputs	DX99N2X1S2N0M2X0B1
		18V			DX99N2X1S2N0M2X0B2
		10V		Discrete: Two inputs Analog: Two 0-10V inputs	DX99N2X1S2N0V2X0B1
		18V			DX99N2X1S2N0V2X0B2
	2.4 GHz	—		Thermocouple: Three inputs, one thermistor input Discrete: Two NPN inputs	DX99N2X1S2N0T4X0B0
	2.4 GHz	—		RTD: Four inputs	DX99N2X1S0N0R4X0B0

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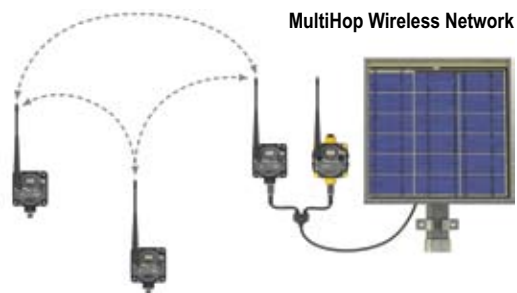
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SureCross™ DX80 MultiHop Data Radio 多點資料傳輸模組

- MultiHop 輸入電源包含+10 to 30vdc, solar and battery power
- 序列埠通訊，使用者可選RS-232或RS-485
- MultiHop可做為中繼站，增加通訊距離
- SureCross MultiHop可規劃為網路式結構
- DIP開關可選擇運作模式:主站、分站、中繼站
- 內含現場信號品質測試 (SITE SURVEY) 可評估現場通訊狀況，測試結果可快速顯示於面板上，進而更換高增益天線優化通訊品質
- FHSS (跳頻技術)，可有效降低頻道的干擾
- 內含I/O通訊，建構在Modbus通訊平台
- 內含I/O的模組，可依型號選擇：數位，類比，溫度，流量



資料傳輸模組



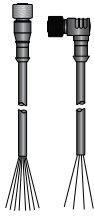
DX85 Modbus RTU Remote I/O
Used to expand I/O capacity when connected to a Data Radio or Gateway

DX80 資料傳輸模組

MultiHop Data Radio 2.4 GHz, each model has RS485 Modbus RTU and can be setup as a Master, Slave or Repeater		
Model	頻率	I/O
DX80DR2M-H	2.4GHz	/
DX80DR2M-H1	2.4GHz	Inputs: Four sinking discrete, two 0 to 20 mA analog, one thermistor, one sinking counter Outputs: Two NMOS discrete, two switch power Serial interface: RS-485
DX80DR2M-H2	2.4GHz	Inputs: Four sourcing discrete, two 0 to 20 mA analog Outputs: Four sourcing discrete, two 0 to 20 mA analog Serial interface: RS-485
DX80DR2M-H3	2.4GHz	Inputs: Two sinking discrete, four thermocouple, one thermistor (internal) Outputs: Two NMOS discrete Serial interface: RS-232
DX80DR2M-H4	2.4GHz	Inputs: Four 3-wire Pt100 RTDs Serial interface: RS-232
DX80DR2M-H12	2.4GHz	Inputs: Two sinking discrete, two 0 to 20 analog, one thermistor, one SDI-12 or Counter Outputs: Two NMOS discrete Switch Power: Two Serial interface: RS-232

專用連接線

歐式快速接頭		
Threaded 5-Pin		
長度	直線型	直角型
0.5 m	MQDC1-501.5	—
2 m	MQDC1-506	MQDC1-506RA
5 m	MQDC1-515	MQDC1-515RA
9 m	MQDC1-530	MQDC1-530RA



支架

DX80	DX99	
SMBDX80DIN	BWA-HW-019	BWA-HW-020

FlexPower 附件

敘述	型號
 FlexPower Battery 6-pack delivers and manages dc voltage from six 3.6V lithium D cell batteries. Replacement battery pack: BWA-BATT-002	DX81P6
 FlexPower Battery Supply Module delivers and manages dc voltage from one 3.6V lithium D cell battery. Replacement battery: BWA-BATT-001	DX81
 FlexPower Battery Supply Module delivers and manages dc voltage from one 3.6V lithium D cell battery and used to power the polycarbonate housed Intrinsically Safe DX99 devices.	DX81H
 FlexPower Solar Supply includes solar panel, controller, and rechargeable battery pack. Replacement battery pack: BWA-BATT-003	BWA-SOLAR-001

FlexPower 專用感測器

敘述	型號
 The low-power MINI-BEAM is designed to work with the FlexPower Nodes.	Retro: SM312LPQD-78447 Diffuse: SM312DQD-78419
 A long-range ultrasonic sensor designed to work with the FlexPower Nodes.	QT50ULBQ6-75390

See page 405 for serial sensor optimized for FlexPower.

FlexPower K50 指示燈

敘述	型號
 K50 EZ-LIGHT, 3 color, with push button	K50FGYRPB1Q

保護外箱

敘述	型號	
	Enclosure Fiberglass Hinged 14"x12"x8"	BWA-EF14128
	Enclosure Fiberglass Hinged 10"x8"x6"	BWA-EF1086
	Enclosure Fiberglass Hinged 8"x6"x6"	BWA-EF866
	Panel, 14 x 12	BWA-PA1412
	Panel, 10 x 8	BWA-PA108
	Panel, 8 x 6	BWA-PA86
	Pole Mount, 12 inch	BWA-PM12
	Pole Mount, 8 inch	BWA-PM8
Pole Mount, 6 inch	BWA-PM6	

繼電器盒

敘述	型號
Interface Relay Box, 18-26V dc inputs, isolated relay outputs	IB6RP

FlexSensor Models*	
 T30UFDNCQ Discrete, ultrasonic, 3 m range	 QS30WEQ (emitter) QS30WRQ (receiver) Photoelectric pair up to 100' range
 M12FTH1Q Temperature and relative humidity sensor ±2%	 M12FTH2Q Temperature and relative humidity sensor ±3.5% (Both offer NIST traceability)


* FlexSensors are used with the DX80 Temp and Relative humidity Node

通用型感測器
光纖放大型感測器
特殊用途感測器
量測與檢測型感測器
視覺感測器
工業用無線傳輸模組
工業級指示燈
安全光幕
安全雷射區域掃描器
安全控制器與模組
安全雙手控制模組
安全插鎖開關
安全急停產品


工業無線傳輸模組
DX70
DX80
DX99

天線專用連接線


LMR400 N Male to N Female	
長度	Straight Model
3 m	BWC-4MNFN3
6 m	BWC-4MNFN6
15 m	BWC-4MNFN15
30 m	BWC-4MNFN30




RP-SMA to RP-SMA Bulkhead	
長度	Straight Model
0.2 m	BWC-1MRSFRSB0.2
1 m	BWC-1MRSFRSB1
2 m	BWC-1MRSFRSB2
4 m	BWC-1MRSFRSB4






RP-SMA Male to N Male	
長度	Straight Model
0.5 m	BWC-1MRSMN05
2 m	BWC-1MRSMN2








天線專用轉接線

敘述	型號
 Antenna Feed through, SS, 1/2" NPT	BWA-HW-016
Antenna Feed through, SS, 3/4" NPT	BWA-HW-017

突波吸收器

敘述	型號
 GHz surge suppressor with bulkhead N connector	BWC-LFNBMN
 GHz surge suppressor with bulkhead and RP-SMA	BWC-LMRSFRPB
 Surge suppressor, bulkhead, N-Type and dc Blocking	BWC-LFNBMN-DC

天線

敘述	型號
 2.4 GHz OMNI, 2 dBi, Rubber Swivel, RP-SMA Male	BWA-202-C
 2.4 GHz OMNI, 5 dBi, Rubber Swivel, RP-SMA Male	BWA-205-C
 2.4 GHz OMNI, 7 dBi, Rubber Swivel, RP-SMA Male	BWA-207-C
 2.4 GHz OMNI, 6 dBi, Fiberglass, 16 inches, Outdoor	BWA-206-A
 2.4 GHz OMNI, 8.5 dBi, Fiberglass, 24 inches, Outdoor	BWA-208-A

User Configuration Tool
RS-485 to USB
Adapter Cable*

BWA-HW-006 RS-485 to USB adapter cable is used to connect the DX80 Gateway to a computer. Download your free configuration software at bannerengineering.com/wireless

* MQDMC-401 adapter cable for connecting BWA-HW-006 to DX80...C housing models