

## Datasheet



Figure 1. BWA-UCT-900 and MQDMC-401

- Connects a Sure Cross Gateway, a MultiHop Radio, or an RS-485 sensor to a Windows PC USB port
- BWA-HW-006 supplies power to one Gateway, one MultiHop Radio operating at 250 mW, or one RS-485 sensor
- BWA-UCT-900 supplies power for one Gateway or one MultiHop Radio operating at 1 Watt
- Supports baud rates of 9600, 19200, and 38400
- Converts USB to RS-485 (2-wire) with a Euro-style connector
- Supports Windows XP and Vista
- Download the User Configuration Tool, MultiHop Configuration Tool, or Sensor Configuration Tool software free from Banner Engineering's Wireless I/O Products website
- Includes cordset MQDMC-401 for use with the DX80...C models

Do not use BWA-HW-006 to connect a Performance Gateway or MultiHop Radio operating in 1 Watt mode. Always configure the Performance and MultiHop models to operate in 250 mW mode before connecting them to your computer to avoid damaging your USB port.

To supply power to 1 Watt radios during configuration, use cable BWA-UCT-900.

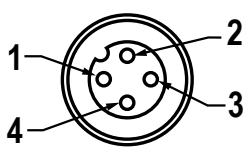
When plugging this cable into your computer for the first time, give the cable 1 to 2 minutes to check your computer for the proper driver, download the driver, then install it. Plug the cable into your Gateway; the cable should supply enough power to the Gateway to configure it.

For additional information, updated documentation, and accessories, refer to Banner Engineering's website, [www.bannerengineering.com/surecross](http://www.bannerengineering.com/surecross).

Models	Adapter	Length
BWA-HW-006	RS-485 to USB	1 meter
BWA-UCT-900	RS-485 to USB, with wall plug to power 1 Watt radios during configuration	

Both cordsets include cordset model MQDMC-401 for use with the DX80...C models.

## 4-pin M12/Euro-style Female Connection

	Pin	Wire Color	DX80 Wiring	DX80...C Wiring
	1	Brown	10 to 30 V dc	V+
	2	White	RS-485 Tx +	Tx
	3	Blue	dc common (GND)	V-
	4	Black	RS-485 Rx -	Rx
Connecting dc power to the communication pins will cause permanent damage.				



## Specifications

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### Input Power

BWA-HW-006: 5 V dc from USB port  
 BWA-UCT-900: 5 V dc from USB port; 100 to 240 V ac from the plug-in wall transformer

### Output Power

BWA-HW-006: 10 V dc power output for a single device transmitting at 250 mW or less  
 BWA-UCT-900: 24 V dc power output for a single device transmitting at 1 Watt

### Operating Parameters

Temperature: -40 °C to +80 °C (-40 °F to +176 °F)  
 Humidity: Up to 95% non-condensing

### USB

Connector: USB type A plug  
 Standard: 2.0

### RS-485

2-wire; 9.6k, 19.2k, or 38.4k; 8 data bits; 1 stop bit; no parity  
 Connector: M12/Euro-style connector compatible with Banner wireless Gateways and data radios

### Banner Compatible Devices

DX80G\*, DR9M, DR2M models  
 M12FTH3Q Temperature and Humidity Sensor; M12FT3Q Temperature Sensor; GPS50M GPS Sensor  
 BWA-HW-006 will not power a MultiHop radio in 1 Watt mode. Use BWA-UCT-900 to supply power to 1 Watt radios. To use BWA-HW-006 with a MultiHop radio, set the radio to operate at 250 mW.

### Length

1 meter (This cable can be extended up to 30 meters.)

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