

SureCross RS-485 to USB Adapter Cable



Datasheet



The BWA-UCT-900 is shown.

- Connects a SureCross Gateway or MultiHop Radio to a Windows PC USB port
- Cable BWA-HW-006 supplies power for one DX80 Gateway or one MultiHop Radio operating at 250 mW
- Cable BWA-UCT-900 supplies power for one DX80 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 or MultiHop Configuration Tool software free from Banner Engineering's Wireless I/O Products website

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.

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	

To be used with the DX80...C models, these adapter cables requires cable model MQDMC-401.

4-pin Euro-Style Connection (Female)

	No.	Wire Color	DX80 Wiring	DX80...C Wiring
	1	Brown	10 to 30 V dc	V+
	2	White	RS485 / D1 / B / +	Tx
	3	Blue	dc common (GND)	V-
	4	Black	RS485 / D0 / A / -	Rx

Connecting dc power to the communication pins will cause permanent damage.



Specifications

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
 Humidity: Up to 95% Non-condensing

USB

Connector: USB type A plug
 Standard: 2.0

RS-485 (BWA-HW-006)

2-wire; 9.6k, 19.2k, or 38.4k; 8 data bits; 1 stop bit; no parity
 Connector: Euro-style connector compatible with Banner wireless Gateway and Data Radio devices

Banner Compatible Devices

DX80G*, DR9M, DR2M models.
 (Cable BWA-HW-006 will not power a MultiHop radio in 1 Watt mode. Use cable BWA-UCT-900 to supply power to 1 Watt radios. To use cable 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.)

Warnings

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