

MINIACTION – PC CONNECTION

1. PROGRAMMING

We suggest to download MiniME communication software on our web site and use a 485 converter. Correct adapter is BRAINBOXES Model US-324.

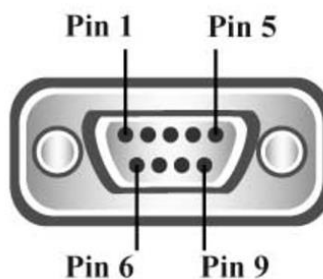
<http://www.brainboxes.com/product/us-324/1-port-rs422-485-usb-to-serial-adapter>

For the cable you must connect pin 1&6 of adapter to pin 2 of J1(Miniaction) and pin 2&7 of adapter to pin 1 of J1(Miniaction).

2. RS-422/485 SETTINGS (US-320, US-324, US-313, US-346, AND US-842 ONLY)

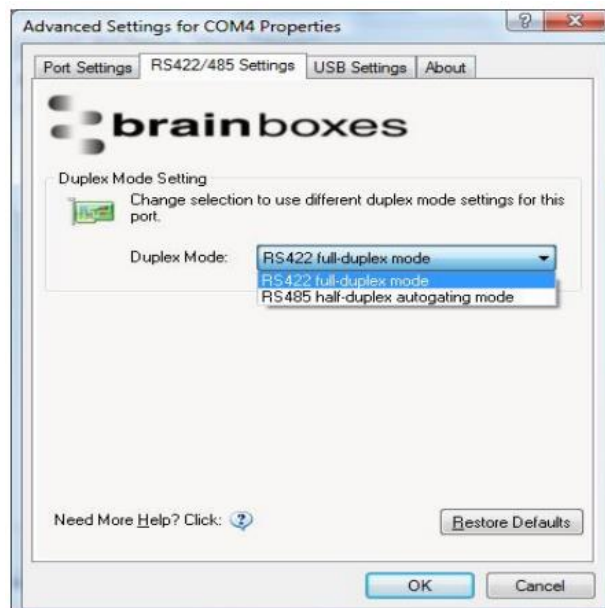
Pin 1	TXD-
Pin 2	TXD+
Pin 3	RTS-
Pin 4	RTS+
Pin 5	GND
Pin 6	RXD-
Pin 7	RXD+
Pin 8	CTS
Pin 9	CTS+

RS422/485 Pinout (9 Pin)



- To achieve RS-485 Half Duplex Communications, using two wires for communication, Pins 1&6 and 2&7 must be physically shorted together.
- Once your wiring is setup, you will also need to set the card to FULL or HALF Duplex mode in the software.

For RS-422/485 products only, there is an additional tab in the Advanced Settings to allow you to change duplex mode.



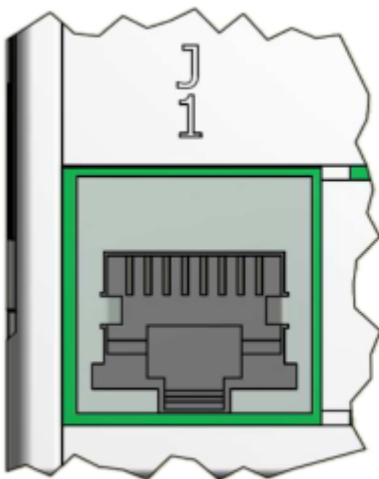
- The drop down list allows users to choose the desired RS-422/485 operations mode.
- Select “RS-422 full duplex mode” for Full Duplex communications.
- Select “RS-485 half duplex autogating mode” for Half Duplex communications.
- Restore Defaults: Pressing this button will reset all settings on this Property Page back to the factory defaults of this device. The default settings for this Property Page are “RS-422 full duplex mode”.

Background Information:

- DTR/DSR Handshaking is not available on 422/485 devices.
- The factory default RS-422/485 setting is full duplex mode.
- The RS-485 standard talks about the differential pair as ‘Data A’ and ‘Data B’ but line driver chip manufacturers use the labels ‘Data+’ and ‘Data-’.
- ‘Data A’ is the inverting pin ‘Data-’ and ‘Data B’ is the non-inverting pin ‘Data+’
- If you can’t get the connection to work it may be because you have mistakenly connected the lines the wrong way round.

3. FIELBUS

The servo drive is equipped with an RJ45 connector (J1) on the front panel. The connector is used to connect the device to a MODBUS RTU fieldbus. The pin configuration is shown in the following illustration.



RS485 connector J1	
pin	signal
1	DATA+
2	DATA-
3	GND
4	NC
5	NC
6	NC
7	NC
8	NC