

# AC-MIO-RS232 TRANSCEIVER

## MODIFYING THE COMMUNICATION PARAMETERS

The AC-MIO-RS232 Transceiver allows the user to modify the serial communication parameters. These are selected with AT commands. The table below shows examples of how to use these commands.

It should be noted that these commands does not modify the powerline communication parameters. By modifying the baud rate with an AT command, only the communication baud rate between the host and the AC-MIO-RS232 are changed. The powerline communication between the two AC-MIO-RS232 devices remains unchanged.

Also, the changes are not permanent. Once the device is powered off, its configuration loses all changes and returns to default.

Command	Usage	Example	
		Command	Effect
BD	Modifies the baud rate of the serial communication.	ATBD2400	The baud rate is changed to 2400.
ST	Modifies the number of stop bits.	ATST2	The number of stop bits is set to 2.
DB	Modifies the number of data bits.	ATDB7	The number of data bits is set to 7.
PA	Modifies the parity. 0 = no parity 1 = odd parity 2 = even parity	ATPA2	The parity is set to Even.

The commands can be typed in with Hyper Terminal and must be followed by a carriage return or a line feed character.

### **Example: modifying the RS-232 baud rate with Hyper Terminal**

This section briefly shows how to modify the baud rate. When Hyper Terminal is opened and ready to transmit over the powerline, do the following:

- Write ATBD2400 and press *Enter*.
- Disconnect and open the *Properties* dialog box.
- Press the *Configure* button.
- Select 2400 in the *Bits Per Second* field.
- Return to the main window. The computer and the AC-MIO-RS232 device are now communicating at 2400 baud.

The same procedure applies for the other configuration parameters.

### **Configuration Restrictions**

The table below shows the ranges of configuration values supported by the AC-MIO-RS232 Transceiver.

Parameter	Supported Values
Baud rate	Hyper Terminal Baud Rates from 300 to 38400 baud.
Stop Bits	1 or 2
Data Bits	5 – 8
Parity	Odd, Even, None