

Changing the Baud Rate and Parity on an R70SR Serial Data Radio



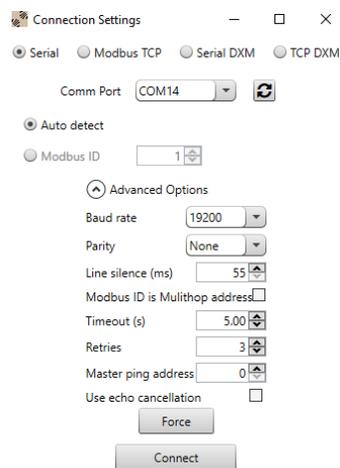
Change the Baud Rate and Parity

The R70 Serial Radios ship with the baud rate set to 19200 and the parity set to none. The baud rate can be changed to 9600 by moving DIP switch 1 to the ON position. If a different baud rate, or a parity other than none is needed, use the MultiHop Configuration software to make that change.

A **BWA-UCT-900** cable is required to connect the R70SR to the computer with the software installed.

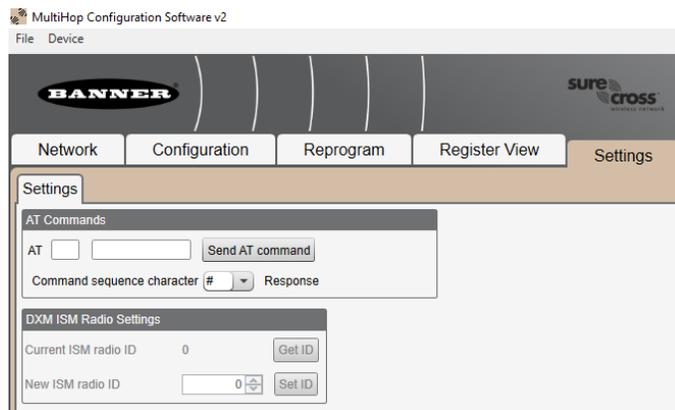
1. Verify all DIP switches on the R70SR are set to the default OFF position.
2. Plug the **BWA-UCT-900** cable into power, the R70SR, and to a computer (USB connection) with the configuration software installed.
3. Launch the MultiHop Configuration Software.
4. On the configuration software: Go to the **Device** menu and select **Connection Settings**.
5. Check **Serial**. Select the correct **Comm Port**. Select **Modbus ID** and verify the **Modbus ID** is set to 1.
6. Expand the **Advanced Options**.

Figure 1. Connection settings pop-up screen



- a) Verify the baud rate is set to 19200 and parity is set to none.
 - b) Click **Force** to connect the R70SR Serial Radio to the software.
7. Go to the **Settings** screen.

Figure 2. Settings screen



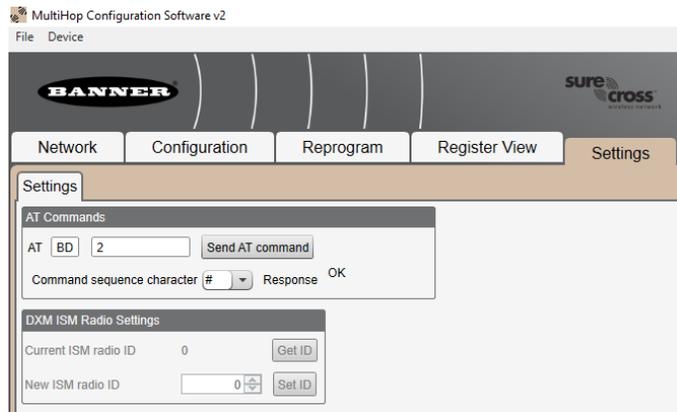
If the radio is connected properly, the **AT Commands** are accessible to send commands to the radio to change the baud rate and parity.

- To change the baud rate, enter **BD** into the first text box under the **AT Commands** section. Enter in the AT command value for baud rate in the second text box.

AT Command Value for Baud Rate	Baud Rate
4	1200
B	2400
1	9600
0	19200
2	38400
5	57600
7	115200

- Click **Send AT command**.

Figure 3. Baud rate change settings



The software sends the command to the R70 Serial Radio. After it is finished, the **Response** comes back as **OK**. To verify the baud rate change is successful, read the value from the R70SR Serial Radio. To read the baud rate from the R70SR, leave the second text box blank and click **Send AT Command**. The **Response** is the baud rate.

- To change the parity, enter **NB** into the first text box under the **AT Commands** section. Enter in the AT command value for parity in the second text box.

AT Command Value for Parity	Parity
0	None
1	Odd
2	Even

- Click **Send AT command**.
The software sends the command to the R70SR Serial Radio. After it is finished, the **Response** comes back as **OK**. To read the parity from the R70SR, leave the second text box blank and click **Send AT Command**. The **Response** is the parity.
- On the R70SR Serial Radio, move DIP switch 1 to the ON position, then cycle the power.
After the R70SR Serial Radio reboots, it will be using the new baud rate and parity that were configured using the AT Commands. When DIP switch 1 is in the OFF position, the baud rate and parity are set to 19200 and none.