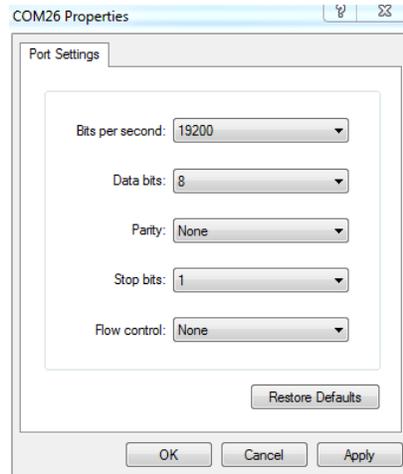
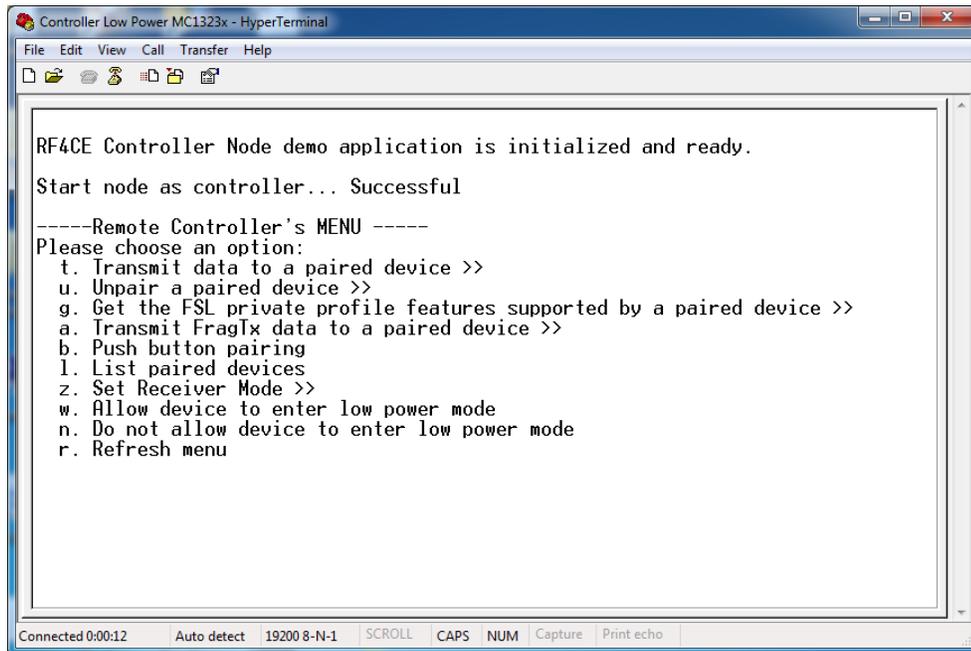


## Running RF4CE sample application

1. To begin, open the provided project with Code Warrior 10.3 IDE. After the project is opened, build and download the project into an MC13234 device (1323x-MRB-128K plus MC1323x-REM).
2. Open a HyperTerminal session. Configure the COM port as shown in the next figure:



3. After the program is downloaded, unplug the BDM programmer and reset the board. The following menu should appear in the HyperTerminal session.



4. As was discussed during this application note, before allowing the device to go to low power, you must turn off the receiver. To do this, select option 'z' in the HyperTerminal. Then select option 2 "Rx Off".

```
Controller Low Power MC1323x - HyperTerminal
File Edit View Call Transfer Help
RF4CE Controller Node demo application is initialized and ready.
Start node as controller... Successful

-----Remote Controller's MENU -----
Please choose an option:
t. Transmit data to a paired device >>
u. Unpair a paired device >>
g. Get the FSL private profile features supported by a paired device >>
a. Transmit FragTx data to a paired device >>
b. Push button pairing
l. List paired devices
z. Set Receiver Mode >>
w. Allow device to enter low power mode
n. Do not allow device to enter low power mode
r. Refresh menu

Please select an option:
1. Rx On
2. Rx Off
3. Intermittent Rx
Setting Rx to off...Successful

Connected 0:34:59 Auto detect 19200 8-N-1 SCROLL CAPS NUM Capture Print echo
```

- Now, a message “Setting Rx to off... Successful” appears, indicating that the receiver was turned off and it was set to idle mode. To ensure that device is in idle, you will see how the current consumption decreased to about 6 mA in the current meter. Now, the application is ready to enter to low-power mode.
- Select option “w.” The device will enter low-power mode (current consumption will be about 700 nA). Because the application was enabled to be woken up using RTI, SCI, or KBI interruption, it will be woken up after one of the three options is executed. RTI interrupt will be handled in about 5 seconds. If SCI interrupt or KBI interrupt is not handled, the device will be woken up after about 5 seconds.

```
Controller Low Power MC1323x - HyperTerminal
File Edit View Call Transfer Help
Start node as controller... Successful

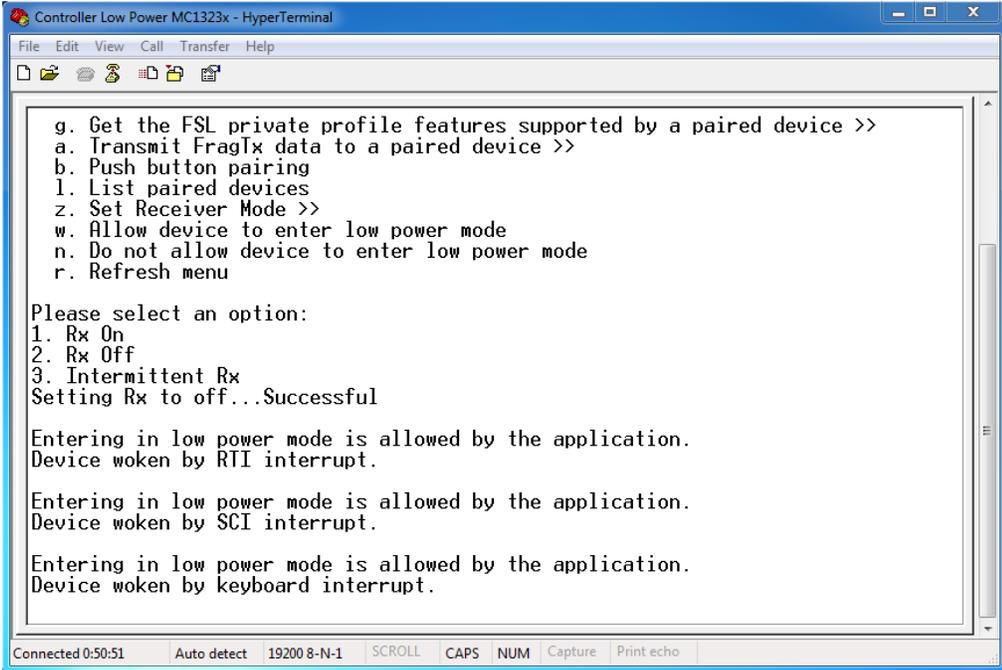
-----Remote Controller's MENU -----
Please choose an option:
t. Transmit data to a paired device >>
u. Unpair a paired device >>
g. Get the FSL private profile features supported by a paired device >>
a. Transmit FragTx data to a paired device >>
b. Push button pairing
l. List paired devices
z. Set Receiver Mode >>
w. Allow device to enter low power mode
n. Do not allow device to enter low power mode
r. Refresh menu

Please select an option:
1. Rx On
2. Rx Off
3. Intermittent Rx
Setting Rx to off...Successful

Entering in low power mode is allowed by the application.
Device woken by RTI interrupt.

Connected 0:45:07 Auto detect 19200 8-N-1 SCROLL CAPS NUM Capture Print echo
```

7. Each time that device has been woken up, there will be a message in the HyperTerminal window specifying the wake up source.



```
Controller Low Power MC1323x - HyperTerminal
File Edit View Call Transfer Help
g. Get the FSL private profile features supported by a paired device >>
a. Transmit FragTx data to a paired device >>
b. Push button pairing
  1. List paired devices
  z. Set Receiver Mode >>
w. Allow device to enter low power mode
n. Do not allow device to enter low power mode
r. Refresh menu

Please select an option:
1. Rx On
2. Rx Off
3. Intermittent Rx
Setting Rx to off...Successful

Entering in low power mode is allowed by the application.
Device woken by RTI interrupt.

Entering in low power mode is allowed by the application.
Device woken by SCI interrupt.

Entering in low power mode is allowed by the application.
Device woken by keyboard interrupt.

Connected 0:50:51  Auto detect  19200 8-N-1  SCROLL  CAPS  NUM  Capture  Print echo
```