

Freescalé MQX RTOS Example Guide

Lightweight event example

This document explains the lightweight event example, what to expect from the example and a brief introduction to the API.

The example

The lightweight event example code shows how a task waits for an event. This event can be set by any other process or interrupt in the system that can set the variable `lwevent`. The example simulates an ISR event using another simple task.

Running the example

The user only needs to do compilation of MQX libraries, ksdk library and the example without any further step.

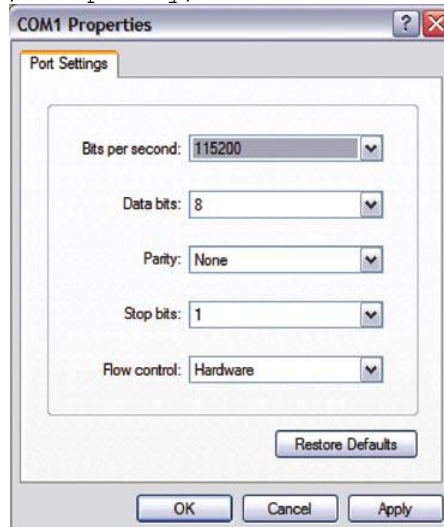
Connect a serial cable from the UART0 port of the board to the PC.

Start HyperTerminal on the PC (Start menu->Programs->Accessories->Communications).

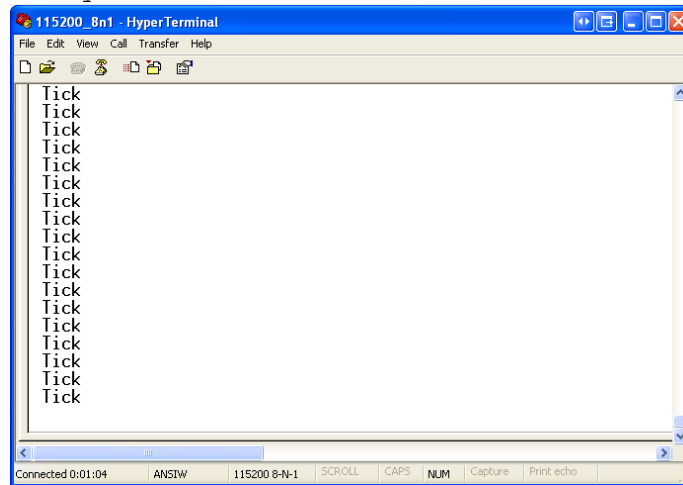
Make a connection to the serial port that is connected to the board (usually will be COM1).



Set it for 115200 baud, no parity, 8 bits and click OK.



After the board is flashed the HyperTerminal will start printing the "Tick" message every certain time.



Explanation of the example

The example application creates two tasks. The `service_task` task creates a lightweight event group and enters a loop in which it waits for an event bit. When the appropriate `lwevent` bit is set, it clears it and prints "Tick.". The `simulated_ISR_task` task periodically sets the corresponding `lwevent` bit with a delay in between (no connection is opened to a `lwevent` group).

