Micriμm

CY8CKIT-050 Example Projects for μC/OS-III & μC/Probe

Feature: LED blink
This feature can be tested without the need of any additional Micriμm product. Once the Start Task begins, LEDs 3 and 4 will blink.

IDE(s): PSoC Creator 2.1 Component Pack 4 v2.1.0.607

μC/OS III Version: v3.03.01
μC/CPU Version: v1.29.01
μC/LIB Version: v1.37.00

FOR: Cypress CY8CKIT-050 CY8C5568AXI-060 Development Kit

Included 3rd Party Libraries: PSoC Creator Generated Source Files

[WARNING]: Make sure to open the project using the mentioned IDE(s) version or later.

PSoC Creator Startup:

- Open the project up in PSoC Creator 2.1
  - Found in 'File' -> 'Open' -> 'Project/Workspace'
  - Find the directory and workspace where the project is located (Ex: Micrium\Software\EvalBoards\Cypress\CY8CKIT-050\PSoC\uCOS-III\uCOS-III.cywrk)
- Compile the project.
  - This can be found in 'Build' -> 'Build uCOS-III' or the shortcut (Shift + F6)
    - PSoC will produce 'Generated_Source' code for the board.
    - Should 'Make' with 0 Warnings and 0 Errors.
      - If 3 warnings show up, no need to worry the project will run correctly, just compile once more.
- Have the board connected via USB connection (J1) to computer **before** downloading project to board.
  - The (J1) connection should provide power to the board as well as program the board.
  - You can also use the MiniProg3 component located in (J3).
    - Provide either external power to the board, or change settings to provide power from the MiniProg3.
- Once the board is connected, 'Download and Debug' the project onto the board.
  - Found in 'Debug' -> 'Debug' or the shortcut (F5)
- Once the project has finished downloading 'Run' the project.
  - Found in 'Debug' -> 'Resume Execution' or the shortcut (F5)
- To disconnect from the debugging session 'Stop Debugging' can be found under 'Debug' as well.

[NOTE]: Connect Ports P0_5 & P0_4 to the RX & TX ports accordingly. The Serial Port uses external port connections to communicate. No complete internal Wiring for Serial Port.