



User Guide for PSoC® 4 MCUs with AliOS Things SDK

Please visit the following link to download the IDE tool PSoC[®] Creator[™] 4.2 for Cypress PSoC MCUs:

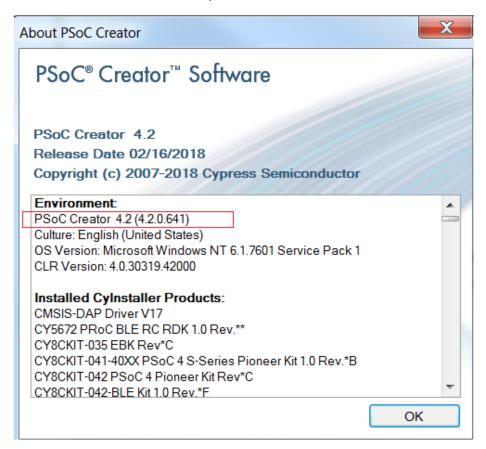
www.cypress.com/psoccreator

PSoC® Creator™ Integrated Design Environment (IDE)





2. Install PSoC Creator 4.2 IDE tool, please check and make sure the version is 4.2.0.641







- 3. Get the PSoC AliOS-Things SDK file "alios-v1.3.0.zip", and uncompress it. (Note: The SDK file alios-v1.3.0.zip is based on AliOS-Things 1.3.0 version) https://github.com/alibaba/AliOS-Things/releases/tag/v1.3.0
- 4. Open the folder "alios-v1.3.0" and go to the path projects/Creator, you can find a folder "CY8CKIT-149" which is a development kit of Cypress' PSoC 4 MCUs.



To find more information on this kit, such as hardware design files schematic, PCB layout and software installation package for the development kits, please check CY8CKIT-149

Reminder: Please download and install the software package of dev kit before setting up the hardware system.

Connect MicroUSB cable from PC to the dev kit CY8CKIT-149 as below, it needs a couple
minutes for the driver install on Windows system, and then you can find the KitProg2 USBUART COM port information as below in DEVICE MANAGER of your Windows OS.





 Double click to open the file rhinorun.cywrk in the path projects\Creator\CY8CKIT-149\rhinorun.cydsn





▶ TopDesign	2018/8/7 14:29	File folder
ம் cyapicallbacks.h	2018/7/20 13:40	C/C++ Header
☐ main.c	2018/7/20 13:40	C Source
rhinorun.cydwr	2018/7/20 13:40	CYDWR File
rhinorun.cyprj	2018/8/3 17:51	PSoC Creator Project
rhinorun.cywrk	2018/8/3 17:38	PSoC Creator Workspace

This is the project file that runs AliOS-Things RTOS kernel rhino.

7. In the PSoC Creator IDE tool, find the "Program" button as below to compile and download the program HEX file.

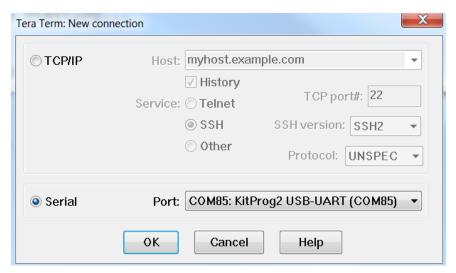


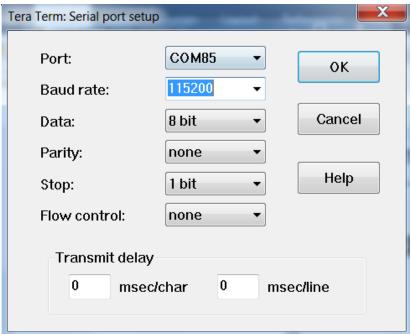




8. Open one Serial port terminal tool like **Tera Term**, set the baud rate to 115200, Data 8bit, Parity None and Stop 1bit.

Here is one Tera Term tool download link: http://ttssh2.osdn.jp/









9. The result of the program for Rhino kernel is shown as below:

```
demo_task here!
rhino memory is 1589!
hello world! count 0
hello world! count 1
hello world! count 2
hello world! count 3
hello world! count 5
hello world! count 6
hello world! count 7
hello world! count 8
hello world! count 9
hello world! count 9
```

Reference Files and Links

- 1. http://www.cypress.com/products/32-bit-arm-cortex-m0-psoc-4
- 2. http://www.cypress.com/products/psoc-creator-integrated-design-environment-ide
- 3. http://www.cypress.com/documentation/other-resources/psoc-creator-user-guide