



Getting Started with CY8C4149AZE-S598 Development Platform – **RDK4**

Registration & Download





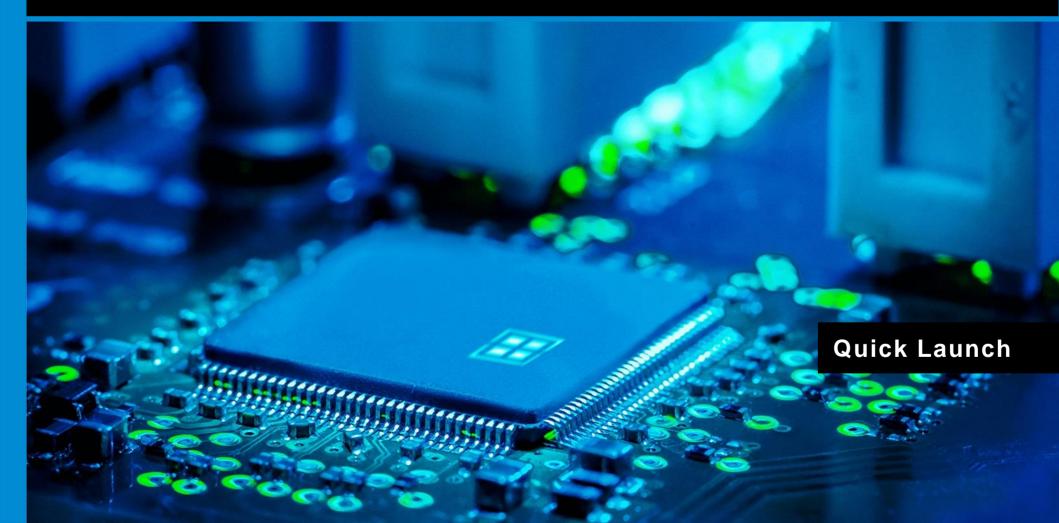
1.) Register or/and login to the Infineon website, press on "myInfineon" tab.

https://www.infineon.com

2.) Download and install the latest <u>ModusToolbox™</u> software.

3.) [Optional] Download and install yours prefered terminal emulator, for example: Putty, Tera Term, etc.





Connect the RDK4

socket with a

marking "KitProg3"



Connect the RDK4 to your PC.



Connect the RDK4

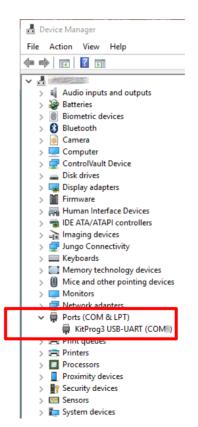


Check if the RDK4 is ready.



"DEBUG" Yellow LED must shine constantly.





The "KitProg3" must be seen in the "Device Manager" window.

Working with the ModusToolbox and Rutronik PC



If you are working with your personal PC, (not the Rutronik provided Laptop PC) please skip this setup.

Open the File \rightarrow New \rightarrow "ModusToolbox Application" \rightarrow Settings \rightarrow Proxy server settings and enter the proxy address: http://iwsva.rut.local:8080

Proxy server	settings - Project Creator 2.0	×	
○ Direct ⑥ Manual [http://iwsva.rut.local:8080 OK	Cancel	

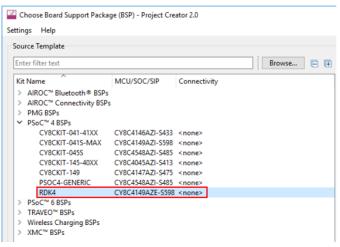


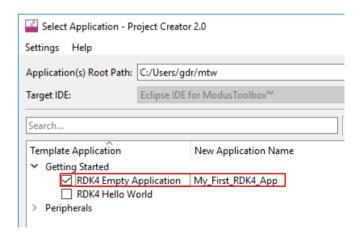




- 1.) Open the "Project Creator" tool: File → New → ModusToolbox™ Application
- 2.) Select the "RDK4" BSP. It is in PSoC™ 4 BSPs list.
- 3.) Click on "Next".
- 4.) Select a "RDK4 Empty Application" in a "Getting Started" category. Name it "My First RDK4 App".
- 5.) Click on "Create".

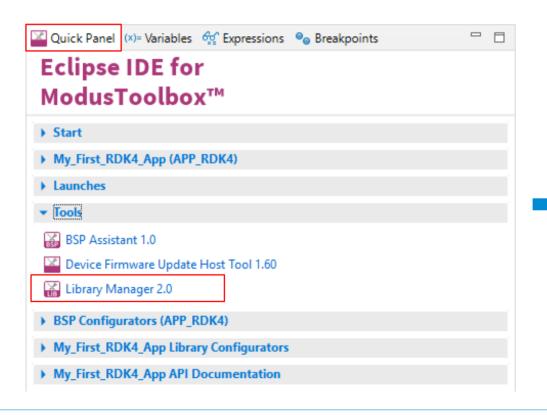


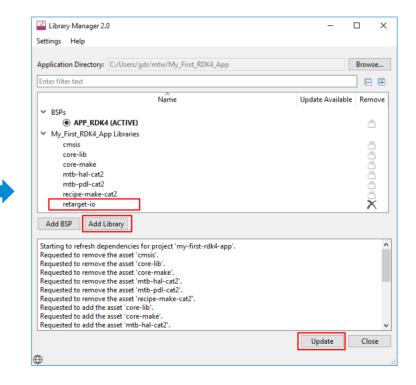






6.) Include the "retarget-io" library in a "Library Manager" tool and press "Update".





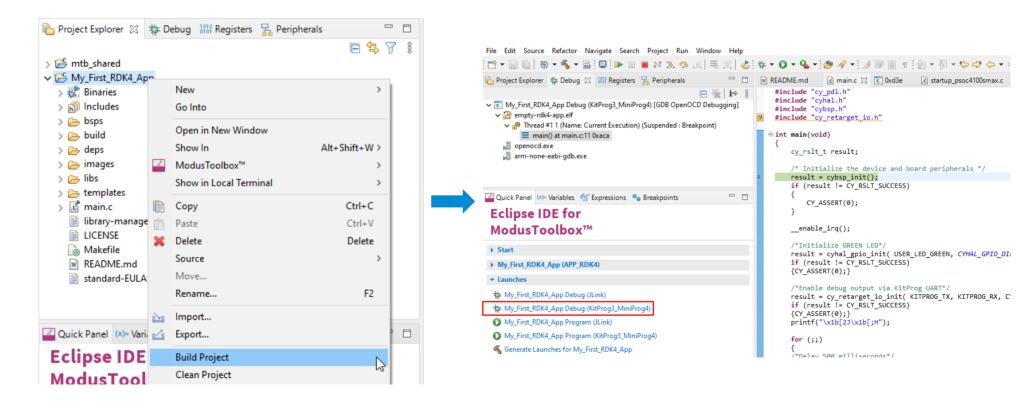


7.) Copy/Paste and save the code example to the "main.c" file.

```
#include "cv pdl.h'
#include "cvhal.h"
#include "cybsp.h"
#include "cy_retarget_io.h"
int main(void)
   cy rslt t result;
   /* Initialize the device and board peripherals */
   result = cvbsp init():
   if (result != CY RSLT SUCCESS)
        CY ASSERT(0);
   enable irq();
   /*Initialize GREEN LED*/
   result = cyhal_gpio_init( USER_LED_GREEN, CYHAL_GPIO_DIR_OUTPUT, CYHAL_GPIO_DRIVE_STRONG, CYBSP_LED_STATE_OFF);
   if (result != CY RSLT SUCCESS)
   {CY ASSERT(0);}
   /*Enable debug output via KitProg UART*/
   result = cy_retarget_io_init( KITPROG_TX, KITPROG_RX, CY_RETARGET_IO_BAUDRATE);
   if (result != CY RSLT SUCCESS)
   {CY ASSERT(0);}
   printf("\x1b[2J\x1b[;H");
   for (;;)
   /*Delay 500 milliseconds*/
   Cy SysLib Delay(500);
   printf("Powered by RUTRONIK.\r\n");
   cyhal gpio toggle(USER LED GREEN);
```

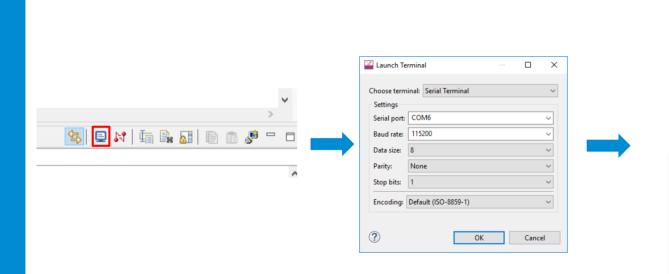


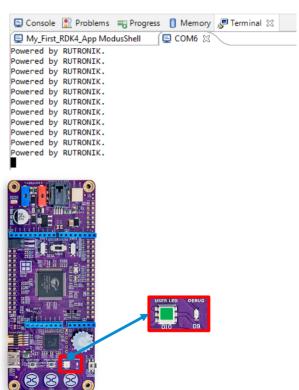
8.) Build and Debug the active project.





The final result is a blinking GREEN LED on the RDK4 board and text on the terminal window:





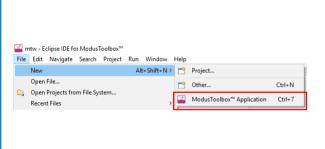


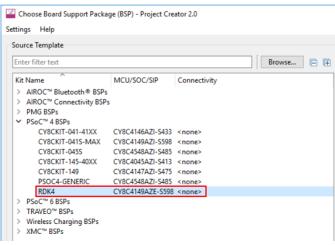


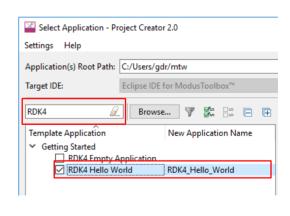
Importing firmware examples with "Project Creator" tool



- 1.) Open the "Project Creator" tool: File → New → ModusToolbox™ Application
- 2.) Select the "RDK4" BSP. It is in PSoC™ 4 BSPs list.
- 3.) Click on "Next".
- 4.) Write a "RDK4" in a Search... window. Select the example from given categories list.
- 5.) Click on "Create".







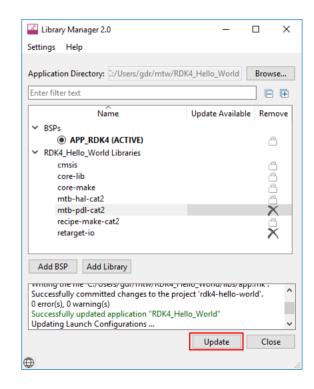
Importing firmware examples with "Project Creator" tool



6.) After project creation is finished - update libraries with "Library Manager" tool.

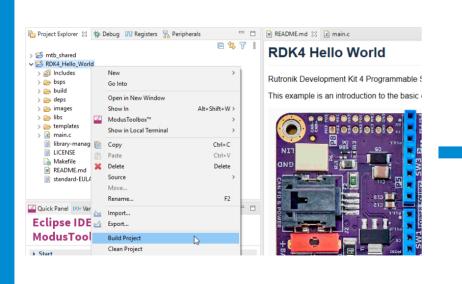


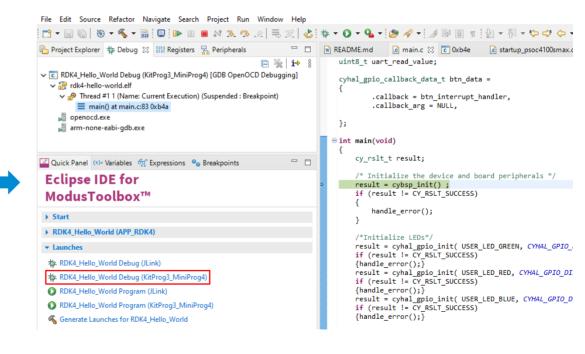






7.) Build and Debug the active project.

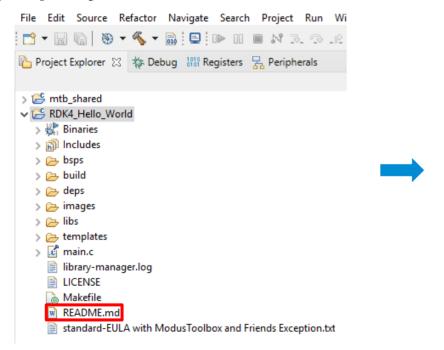




RDK4 README.md



Check the README.md file before starting to explore the code example. You may find important hints or what else is needed to have firmware running properly.









Gintaras Drukteinis

Technical Support

Phone: +370 372 45568

eMail: gdr@rutronik.com