Updating WBZ451 Curiosity board Kit Info to work with MPLAB x IDE/IPE v5.50 and above

Description

WBZ451 Curiosity Board has an on-board debugger (PKOB4). For users to be able to use PKOB4 for debug and programming purposes with IDE/IPE v 5.50 and above, users must update the kit information saved on the PKOB4.

After updating the kit information, device name (DEVNAME) saved on the PKOB4 will change from "PIC32CX1012BZ25048" to "WBZ451". Application Examples prior to EA3.1 release were developed with device name as "PIC32CX1012BZ25048". From EA3.1 release and above all application examples have the device name set to "WBZ451". WBZ451 is a RF module based on "PIC32CX1012BZ25048" Soc. All GPIO's, Analog and Digital Peripherals available on the Soc are also available on the RF module.
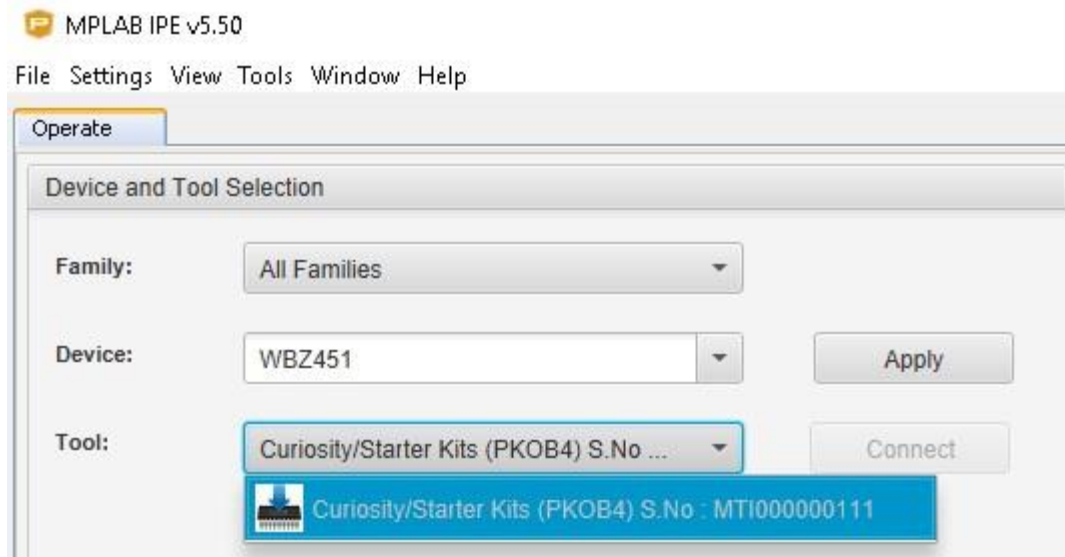
Determine if kit information needs to be updated on your kit?

1. Find the serial no of the board, follow procedure mentioned below
2. **Kits with serial no: 599 and below should be updated**
3. Kits with serial no: 600 and above are already updated with the right kit information. Users do not need to go through this procedure, for example a board with the below serial number does not need any update. Since its serial number is "220200033" which is above serial no:599

Procedure to get serial no of board:

1. Connect the WBZ451 Curiosity Board to the PC by plugging in Micro USB Cable to J7
2. Open "MPLAB x IPE"
3. The serial no of board connected can be found by selecting "Tool:" option

MPLAB IPE v5.50

File Settings View Tools Window Help

Operate

Device and Tool Selection

Family: All Families

Device: WBZ451   Apply

Tool: Curiosity/Starter Kits (PKOB4) S.No ...   Connect

   Curiosity/Starter Kits (PKOB4) S.No : MTI000000111
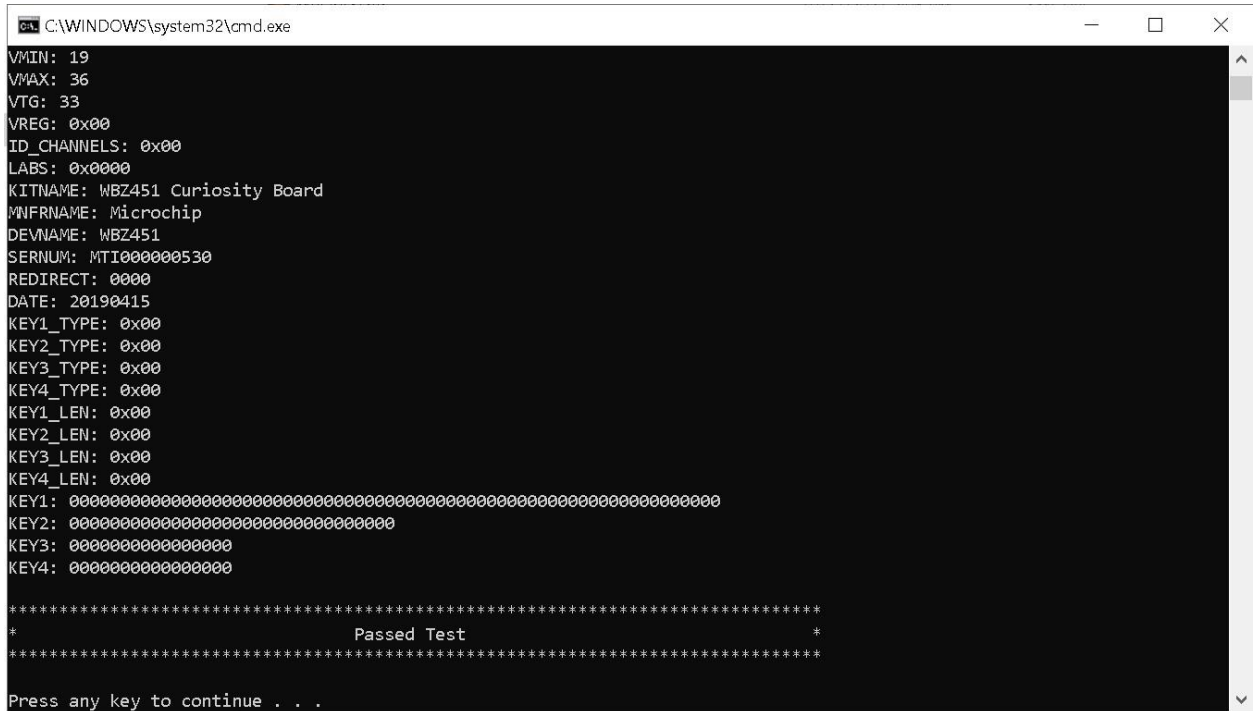
Procedure to update the kit information:

1. Download the files and folders link
2. Extract the downloaded folder and copy all the files and folders from the extracted folder to C:\<folder_name>\
3. A successful copy of all files and folders should look like this, in this example we choose <folder_name> as "microchip"

This PC > Local Disk (C:) > microchip

Name	Date modified	Type	Size
Prodtest	10/5/2021 4:15 PM	File folder	
support	10/5/2021 4:15 PM	File folder	
sys	10/5/2021 4:15 PM	File folder	
4_PkoB4_Program_Kit_Info	10/5/2021 4:08 PM	Windows Batch File	2 KB
4_PkoB4_Program_Kit_Info_log	10/5/2021 4:08 PM	Text Document	2 KB
100_PkoB4_Help	10/5/2021 4:08 PM	Windows Batch File	2 KB
board_config_defines-1.7.50	10/5/2021 4:08 PM	XML File	35 KB
WBZ451 Curiosity Board	10/5/2021 4:16 PM	XML File	3 KB

4. Close any instance of MPLAB x IDE/IPE that is open
5. Go to C:\<folder_name>\sys and run MPLABCOMM-3.45.00-windows-installer.exe in Administrator mode
   a. Installation can be verified if a folder called "3.45.00" is created in *C:\Program Files\Microchip\mplabcomm* location
6. Once installation is complete, Connect the WBZ451 Curiosity Board to the PC by plugging in Micro USB Cable to J7 (updates should be made 1 board at a time).
   a. Ensure that no other devices are connected to the PC at the time of execution

7. Execute C:\<folder_name>\4_PkoB4_Program_Kit_Info.bat
    a. Result will be displayed in the execution window for a "PASSED TEST"

```
VMIN: 19
VMAX: 36
VTG: 33
VREG: 0x00
ID_CHANNELS: 0x00
LABS: 0x0000
KITNAME: WBZ451 Curiosity Board
MNFRNAME: Microchip
DEVNAME: WBZ451
SERNUM: MTI000000530
REDIRECT: 0000
DATE: 20190415
KEY1_TYPE: 0x00
KEY2_TYPE: 0x00
KEY3_TYPE: 0x00
KEY4_TYPE: 0x00
KEY1_LEN: 0x00
KEY2_LEN: 0x00
KEY3_LEN: 0x00
KEY4_LEN: 0x00
KEY1: 0000000000000000000000000000000000000000000000000000000000000000
KEY2: 00000000000000000000000000000000
KEY3: 0000000000000000
KEY4: 0000000000000000


*****************************************************************************
*                              Passed Test                                  *
*****************************************************************************

Press any key to continue . . .
```

"Passed Test" in the log, denotes that the WBZ451 Curiosity Board can now be used with MPLAB x IDE/IPE v 5.50 and above

8. Remove USB connection to power toggle the board to get the new kit info to take effect