

EPD Extension Kit Gen2 (EXT2) - Quick Start Guide: EXT2 QSG

- Understand your LaunchPad name (MSP-EXP430F5529LP, MSP-EXP432P401R or EK-TM4C123GXL) and EPD type & size (visit [model name definition](#)).
- Download project code and software

(A) [EPD Extension Board Gen2 \(EXT2\) project code and PDi Apps](#). You will be asked to fill out basic data. PDi Apps is for demonstrating with EXT2 kit and EPDs. Install this Apps utility in your computer.

(B) There are two ways to program the firmware into LaunchPad

(a) [UniFlash](#): for programming firmware into your LaunchPad. Install it in your computer. During installation, select the microcontroller of your LaunchPad. Ex. MSP-EXP430F5529LP to select “MSP430 Ultra Low Power”, MSP-EXP432P401R to select “MSP432 Ultra Low Power”, EK-TM4C123GXL to select both of “Tiva/Stellaris Cortex-M”



(b) CCS (Code Composer Studio): for advanced user to develop and debug with project code. Please install the correct driver library in advance. (refer to EXT2 User’s Guide at section 2.2.2)

- Adjust the jumper on LaunchPad

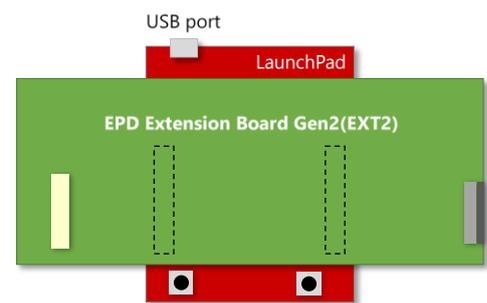
MSP-EXP430F5529LP	MSP-EXP432P401R	EK-TM4C123GXL
eZ-FET jumper:		
JP8:		PWR at DEBUG side

- Configuration of the DIP switch at the backside of EXT2 board by the driver type and EPD size



1 for ON (up), 0 for OFF (down), - for don't care.

Driver type and EPD size	S1	S2	S3	S4	S5	S6	S7	S8
(eTC) 1.44 2.0	0	0	0	0	0	0	1	-
(eTC) 1.9 2.6 2.71	0	0	0	0	0	0	0	-
(iTC) 2.15	1	0	1	0	0	0	0	-
(iTC) 2.71 2.87 4.2	0	1	0	1	0	1	0	-



- Staking EXT2 board on LaunchPad like the picture at right and connect USB cable to LaunchPad and your computer.
- Connect the EPD to the EXT2 board

Connecting with 40-pins eTC connector (J1)				Connecting with 26-pins iTC connector (J4)			
	Open the connector	Slide the FPC into connector	Close the connector		Open the connector	Slide the FPC into connector	Close the connector

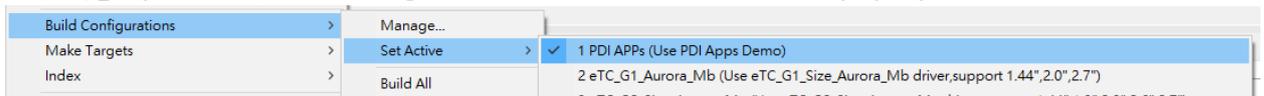
7. Load project and program firmware into LaunchPad

- For (a): by UniFlash

- (1) Install (a) and run it. Find [File] / [Open Configuration] / [Browse] from menu to select "EPD_Extension_Board_*LaunchPadName*.ccxml" under [Output] / [UniFlash] folder of (A).
- (2) After loading the configuration in UniFlash, select the [Programs] from tree view menu and click  button to select "*LaunchPadName.out*" file under [Output] folder of (A) into the list.
- (3) Click  button to start programming firmware into your LaunchPad.

- For (b): by CCS

- (1) Run CCS and load the (A) EXT2 project code
- (2) Right click on the project name of your connected LaunchPad and find 「PDI APPs (Use PDI Apps Demo)」 option at [Build Configurations] / [Set Active] from the pop-up submenu.



- (3) Click on the [Debug] button from the tool bar



Make sure there is no errors in the console. Click  Terminate button back to CCS Edit.

8. Run PDI_Apps , the LaunchPad should be detected and reported firmware version. Select correct panel size and panel type as your connected EPD. Selected the OTP if your EPD is iTC type.

9. Click  button to select the image folder as your EPD size. The images will be listed in the area. Double click on the image you want to show on EPD and click  button to update the image on EPD.

 [Leave your message](#) if you've gotten issue working with EXT2 after following User's Guide of EXT2 kit.