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Add MSP432 support to Arduino?

msp432    arduino




**By mgh,**  
January 10, 2019 in Energia - MSP

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**mgh**  
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Posted January 10, 2019

Does anyone know if MSP432 (black) can be added to the standard Arduino setup?

The reason: I've got an Adafruit Feather M0+ board working with Arduino, so the ARM Cortex-M compiler is "already there". I'm hoping maybe I could remove Energia (since I don't need the '430 support). If I add the JSON board file for the black MSP432 launch-pad, will the Arduino IDE get everything it needs to play with the MSP432?  
[https://energia.nu/packages/package\\_msp432\\_black\\_index.json](https://energia.nu/packages/package_msp432_black_index.json)

Also, is there a JSON file for the Tiva TM4C123 launch-pad? (same reason, have a Tiva, want to move everything over to one IDE).

Thanks!

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**Rei Vilo**  
Level 5



Members  
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Posted January 12, 2019

No, it is not possible as the Energia IDE includes specific features to support the multi-treading of the MSP432.

The black MSP432 is deprecated and no longer supported.

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**mgh**

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Posted January 12, 2019

Author



But I don't care about that multitasking - does anyone know if it would work otherwise?

Yes, I know the black MSP432 has been abandoned, but I'm not going to throw away perfectly good hardware.

Thanks for the response!

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**jazz**

Level 3



Members

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442 posts

LocationCroatia

Posted January 13, 2019



This is TI. Go back with your IDE version, and board should work just fine.

[http://processors.wiki.ti.com/index.php/XMS432\\_Support](http://processors.wiki.ti.com/index.php/XMS432_Support)

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veryalive



**Rickta59**

Level 4



Members

+ 589

1,135 posts

LocationEastern NC

Github Repository

Posted January 13, 2019



On 1/10/2019 at 7:51 PM, mgh said:



Also, is there a JSON file for the Tiva TM4C123 launch-pad? (same reason, have a Tiva, want to move everything over to one IDE).

Thanks!

not json but instructions given for linux

<https://github.com/RickKimball/tivac-core>

Assumes you have openocd and arm-none-eabi-gcc in your path. Probably won't work for windows. Probably will work for OSX.

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energia and Fmilburn



**energia**

Level 4



Members

+ 484

1,252 posts

Posted January 15, 2019



Although the Arduino IDE should be able to consume the Energia packages, there is a difference between the arduino-builder in Arduino and Energia which makes the msp432 package incompatible with the Arduino IDE. See the pull request here: <https://github.com/arduino/arduino-builder/pull/119>. I have it on my list to find a different solution and be able to use the stock arduino-builder at which point the Arduino IDE should be able to consume the Energia package.

For TivaC and MSP430, it is possible to use it in the Arduino IDE. Just put this in the preferences: [http://energia.nu/packages/package\\_energia\\_index.json](http://energia.nu/packages/package_energia_index.json). Then pull up the board manager and install TivaC support.

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mgh

Member



Members

+11

24 posts

Posted January 15, 2019

Author



Wow! Thank you Rick, thank you @energia! I'll try some of these this weekend.

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Rei Vilo

Level 5



Members

+695

2,124 posts

LocationFrance  
Github Repository

Posted January 16, 2019



If you want to use one single IDE for all the different boards, try

- [Visual Micro](#) (Windows only),
- [embedXcode](#) (macOS only),
- [PlatformIO](#) (Windows + macOS + Linux).

All come as *freemium*: free for basic features; one-time-fee or subscription for more advanced features.

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