



[ARCHIVES] MicroToolsKit library

Updated on December 29, 2018



MicroToolsKit library is organized as a namespace. It is intended for **Netduino**, **Fez Panda 3** or **Cobra 3** boards. It is downloadable on nuget.org. The source code is maintained and documented on GitHub.



Use MicroToolsKit package

1. Create a new Micro Framework (.NET v4.3) project, Netduino Application (Universal) for Netduino or Console Application for Fez Panda in Visual Studio 2015
2. Add MicroToolskit NuGet
 1. In Solution Explorer, right click on References and choose Manage NuGet Packages.
 2. Choose "nuget.org" as the Package source, click the Browse tab, search for MicroToolsKit, and click Install.

MicroToolsKit namespace

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-- | -----> Hardware
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-----| -----> IHM
-----|-----| -----> IHMSSI (personal IHM Class v1.4.1)
-----|-----| -----> KBD5T (DFRobot KeyBoard Module V2 Class v1.4.5) (to
come up)
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-----| -----> MotorDrivers
-----|-----| -----> MotorControlMD2x (MD25 : Dual 12Volt 2.8Amp H Bridge

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Motor Drive I²C Class v1.4.4 et +)

-----|-----|-----> [EasyStepperDriver](#) (Easy Driver Stepper Motor Driver Class v1.4.4 et +)

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-----|-----> **Displays**

-----|-----|-----> [ELCD162](#) (LCD 2x16 series drivers Class v1.4.3)

-----|-----|-----> [I2CLCD](#) (LCD 2x16 I²C driver Class v1.4.3)

-----|-----|-----> [ST7735](#) (1,8 SPI TFT display driver Class v1.4.5.1)

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-----|-----> **Sensors**

-----|-----|-----> [SRF08](#)(Ultra sonic range finder I²C Class v1.4.1 et +)

-----|-----|-----> [HMC6352](#) (Digital Compass I²C Class v1.4.1 et +)

-----|-----|-----> [TMP102](#) (Low-Power Digital Temp. Sensor With Two-Wire Serial Interface I²C Class v1.4.3 et +)

-----|-----|-----> [TSL2561](#) (LIGHT-TO-DIGITAL CONVERTER I²C Class v1.4.1 et +)

-----|-----|-----> [MLX90614](#) (Digital Non-Contact Infrared Thermometer I²C Class v1.4.3 et +)

-----|-----|-----> [ADXL345](#) (3-Axis, ±2 g/±4 g/±8 g/±16 g Digital Accelerometer I²C Class v1.4.5) (to come up)

-----|-----|-----> [ITG3200](#) (Triple-axis MEMS gyroscope I²C Class v1.4.5) (to come up)

-----|-----|-----> [BMP085](#) (Hight precision pressure sensor I²C Class v1.4.5) (to come up)

-----|-----|-----> [HMC5883L](#) (3-Axis Digital Compass I²C Class v1.4.5) (to come up)

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-----|-----> **IO**

-----|-----|-----> [PCF8574](#) (Remote 8-Bit I/O Expander for I²C Bus Class v1.4.3 et +)

-----|-----|-----> [MCP3424](#) (Mixed Signal - Sigma - Delta A/D Converters I²C Class v1.4.3 et +)

MicroToolsKit Update

Future release : Version 1.4.5.3 on January 2019

- Adding ADXL345, ITG3200, BMP085, KBD5T and HMC5883L classes
- Adding interrupt management in PCF8574 Class
- Adding exception if transaction failed in SRF08, TSL2561 and HMC6352 classes.
- Updating XML documentation

Version 1.4.5.2 release on August 8, 2018

- Add DrawPicture on ST7735R class
- Updating XML documentation

Version 1.4.5.1 release on August 8, 2018

- Add 1,8"SPI TFT display (ST7735R class)
- Updating XML documentation
- Change project site

Version 1.4.4 release on June 13, 2017

- Updating XML documentation, adding set registers and exception in MD25 class.
- Add set delay, mode and direction properties in EasyStepperDriver Class and more constructors and methods
- Add Time Out Transaction value in PCF8574 and MD25 classes.

Version 1.4.3 release on March 2, 2017

- Adding MCP342x class
- Adding MLX90614 class
- Adding exception in PCF8574 class (if transaction failed)
- Updating XML documentation.

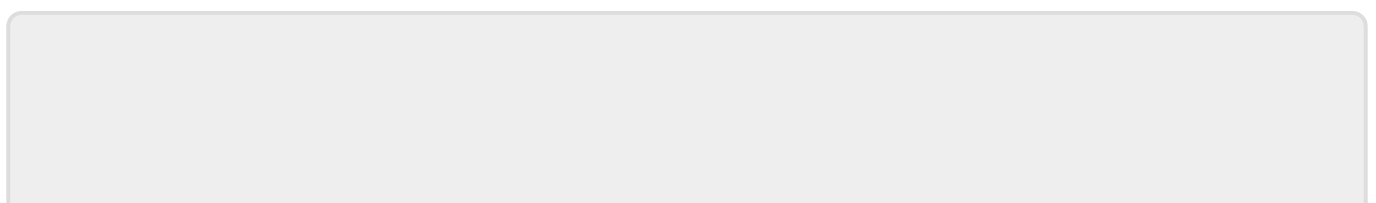
Version 1.4.2 release on February 13, 2017

- Updating TMP102 class (all circuits I²C are working together)
- Updating TSL2561 class (integration time is 13ms by default.
- Updating XML documentation.

Version 1.4.1 release on December 24, 2016

- Bug fixed

Version 1.3.1 release on December 23, 2016



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