

# SW requirements for do the STM Hands-On during the STDay 2016

## PC must have Windows 7

For use the: [STM32L4-Discovery](#)

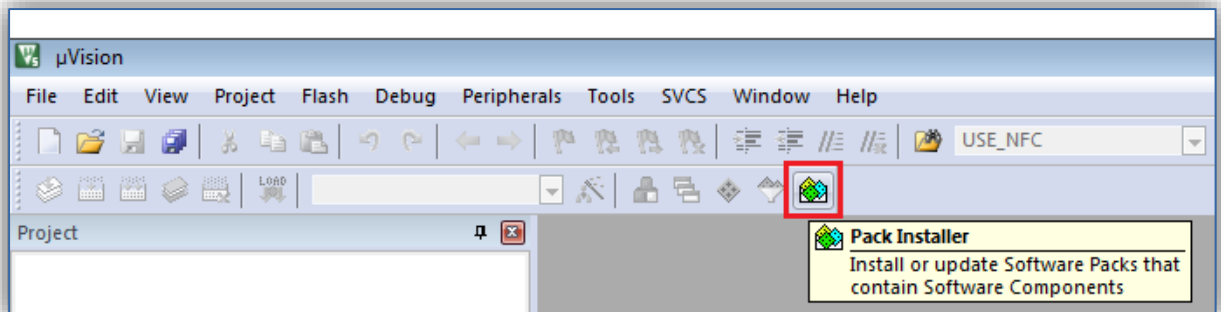
For use the: [IoT - Remote your Sensors via WiFi and IBM BlueMix](#)

### **NOTE:**

If you have already installed the tools highlighted below, make sure to have the last version installed.

**For do the hands-on n.1 please install the tools shown below**

- Compiler: [KEIL](#).  
Download and install it, **don't change the default path**.  
After the installation run KEIL and select the: **Pack Installer** (see below).

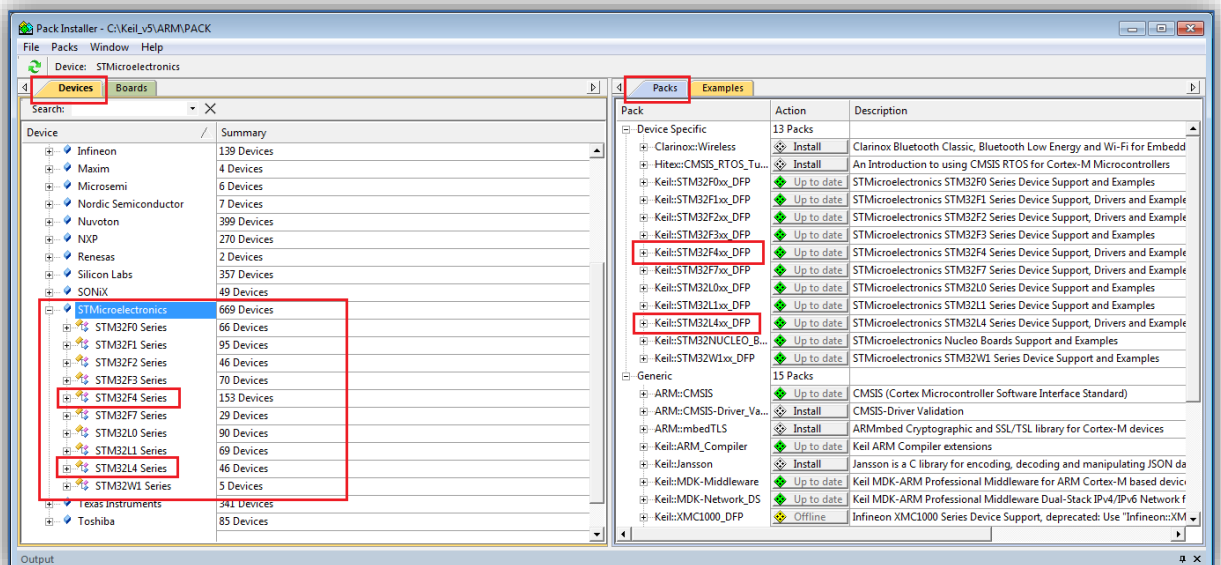


From the window that appears select and install:

**STM32F4 Series**

**STM32L4 Series**

see below.



**IMPORTANT:**

For test KEIL installation see [here](#).

- [CUBE-MX](#)

Download and install it, **don't change the default path.**

CUBE-MX request **JAVA** installed on your PC.

Get Software <span>Top</span>			
Part Number	Version	Marketing Status	Order From ST
STM32CubeMX	4.13.0	Active	<a href="#">Download</a>

- [STM32L4 Hal Library](#)

Download and UnZip it on C:\ST2016

Get Software <span>Top</span>			
Part Number	Version	Marketing Status	Order From ST
STM32CubeL4	1.3.0	Active	<a href="#">Download</a>

- [ST-LINK-UTILITY](#)

Download and install it, **don't change the default path.**

Part Number	Version	Marketing Status	Order From ST
STSW-LINK004	3.8.0	Active	<a href="#">Download</a>

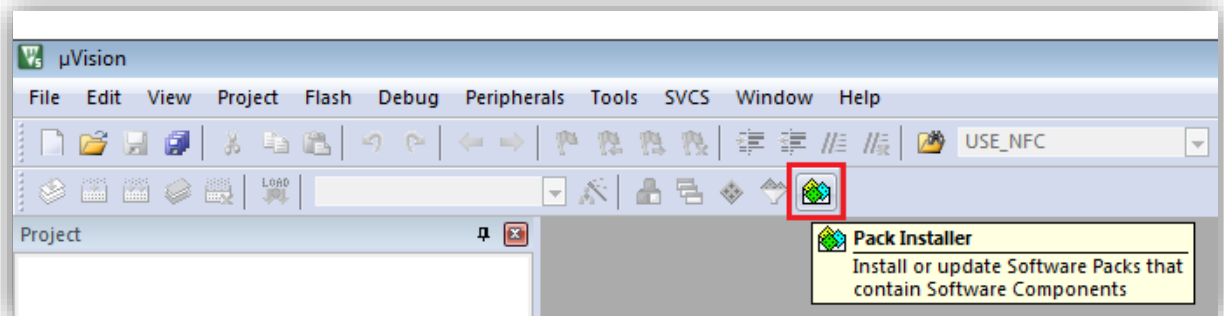
- **STM Virtual COM Port Driver** that is [here](#).

Download and install it.

Part Number	Version	Marketing Status	Order From ST
STSW-STM32102	1.4.0	Active	<a href="#">Download</a>

## For do the hands-on n.2 please install the tools shown below

- Compiler: [KEIL](#).  
Download and install it, **don't change the default path**.  
After the installation run KEIL and select the: **Pack Installer** (see below).

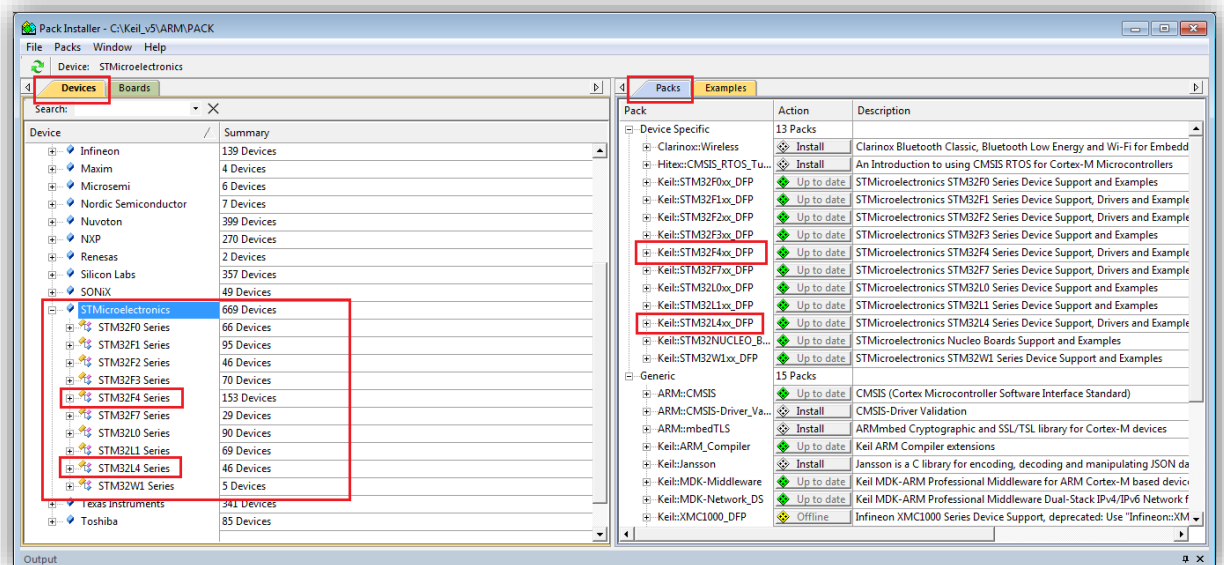


From the window that appears select and install:

**STM32F4 Series**

**STM32L4 Series**

see below.



### **IMPORTANT:**

For test KEIL installation see [here](#).

- **Serial line monitor** (e.g. [Termite](#) or [TeraTerm](#)).  
Download and install it.
- **Modern web browser** (e.g. [Chrome](#)).  
Download and install it.

- **STM32 Software for this demo** is [here](#) (FP-CLD-BLUEMIX1).

Get Software <span>Top</span>			
Part Number	Version	Marketing Status	Order From ST
FP-CLD-BLUEMIX1	1.0.0	Active	<a href="#">Download</a>

- UnZip it on C:\ST2016
  - Documentation of this software is [here](#).
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- **STM Virtual COM Port Driver** that is [here](#).  
Download and install it.

Part Number	Version	Marketing Status	Order From ST
STSW-STM32102	1.4.0	Active	<a href="#">Download</a>


## Test KEIL installation

For testing your KEIL installation download this examples and test both.

### [L4.7z](#)

Unzip into **C:\ST2016\L4**

Go in the directory: **C:\ST2016\L4\MDK-ARM** and double click on: **L4.uvprojx**

Compile clicking on the icon:  (rebuild)


You must see something like below.

```
Build Output
assembling startup_stm321476xx.s...
compiling stm3214xx_hal_rcc_ex.c...
linking...
Program Size: Code=5004 RO-data=488 RW-data=8 ZI-data=512
"L4\L4.axf" - 0 Error(s), 0 Warning(s).
Build Time Elapsed: 00:00:28
```

### [F4.7z](#)

Unzip into **C:\ST2016\F4**

Go in the directory: **C:\ST2016\F4\MDK-ARM** and double click on: **F4.uvprojx**

Compile clicking on the icon:  (rebuild)

You must see something like below.

```
Build Output
assembling startup_stm32f401xe.s...
compiling system_stm32f4xx.c...
compiling stm32f4xx_hal_msp.c...
linking...
Program Size: Code=3800 RO-data=452 RW-data=8 ZI-data=512
"F4\F4.axf" - 0 Error(s), 0 Warning(s).
Build Time Elapsed: 00:00:15
```