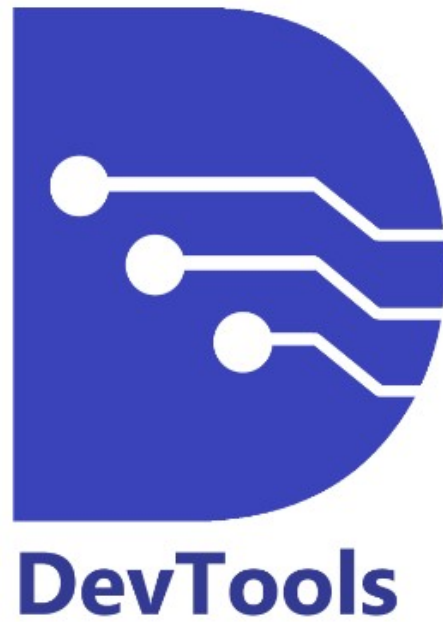


Journée

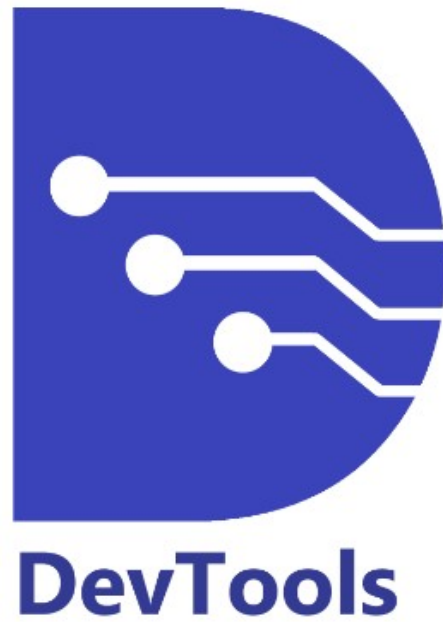
Prototypage rapide

des objets connectés

CapTronic & Easytech



Workbench for STM32



Projet FUI : IO32

aim

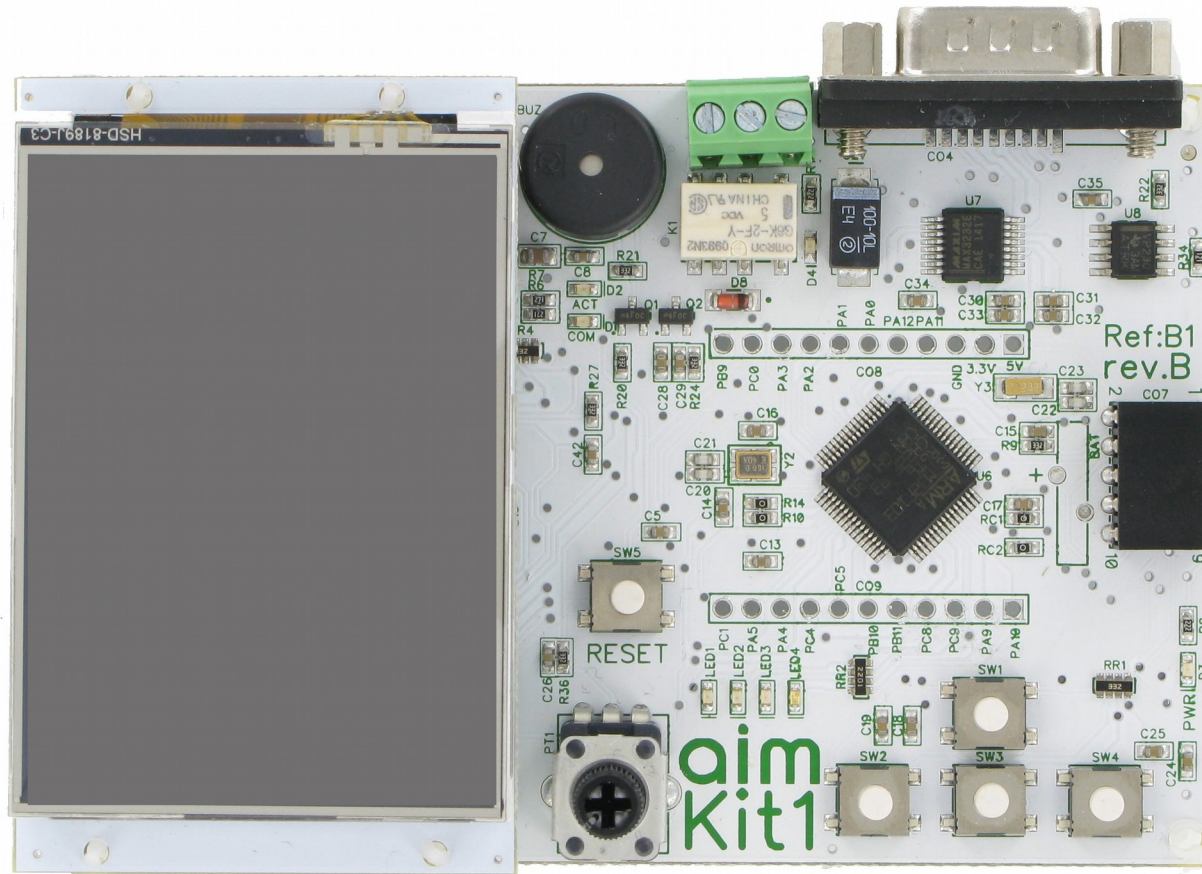
EASii
IC



DELTA DORE
EMS



AIM-Kit1 + DevTools



- F051
- F103
- F205
- F405
- F415
- L152

Developer cost



5

Developer cost



6

?

0,32 \$ for 32 bits

Developer



7

3 months at 32 €/h
16 800 €

Developer



3 months at 32 €/h
16 800 €

Micro-controller



8

52 500 chips

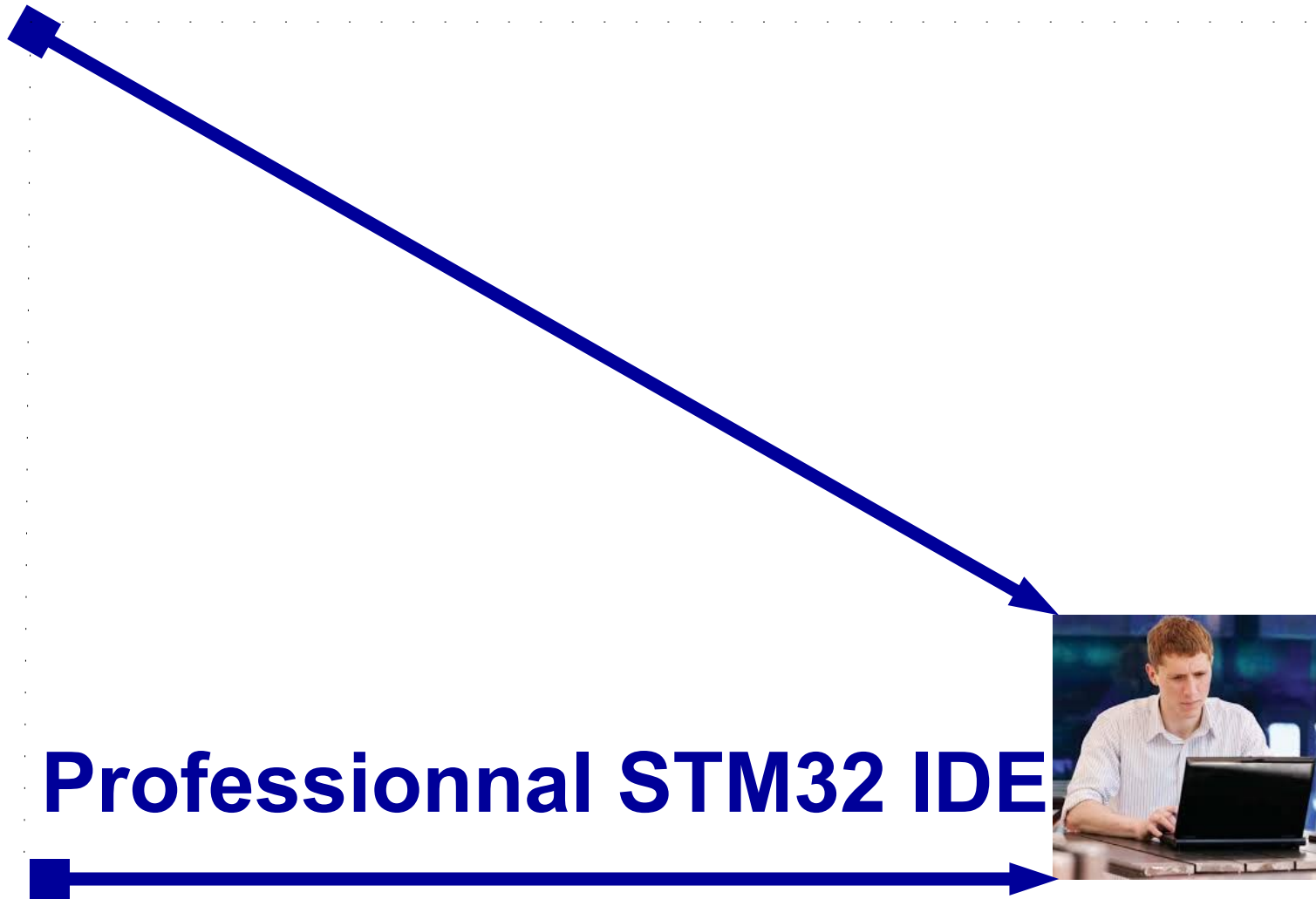
Using free STM32 IDE



Using DevTools



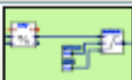
10



Professionnal STM32 IDE



 **Videos**

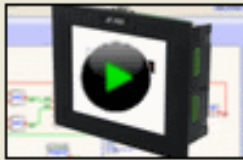
 **Examples**

Watch these videos: in a few minutes they will give you a good idea of all you can do with Agilia:



Introduction

This video gives an overview of Agilia's features.



The GUI Editor

Using the GUI editor, you can create your application's user interface in minutes.



Macros

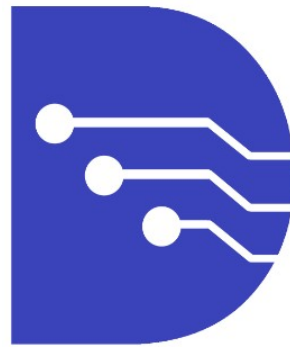
With macros, you can adapt Agilia to your needs by adding new features. This video takes you through process of creating your first macro.



Communication

Control your application from your PC. Have it send an email when a temperature reaches a certain limit. This video shows how Agilia can communicate with the outside world.

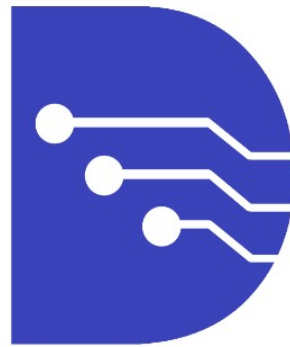
Designed to get you started quickly



DevTools

12

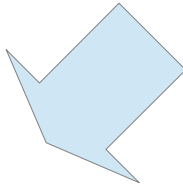
To provide all you need



DevTools

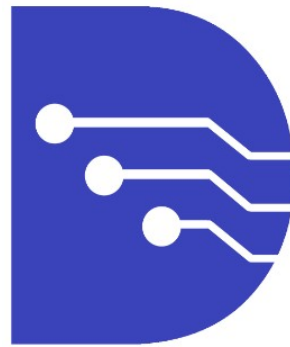
13

To provide all you need



μ OneTM

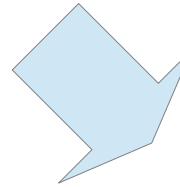
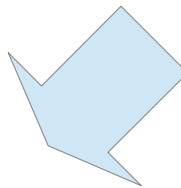
aim



DevTools

14

To provide all you need



μ OneTM

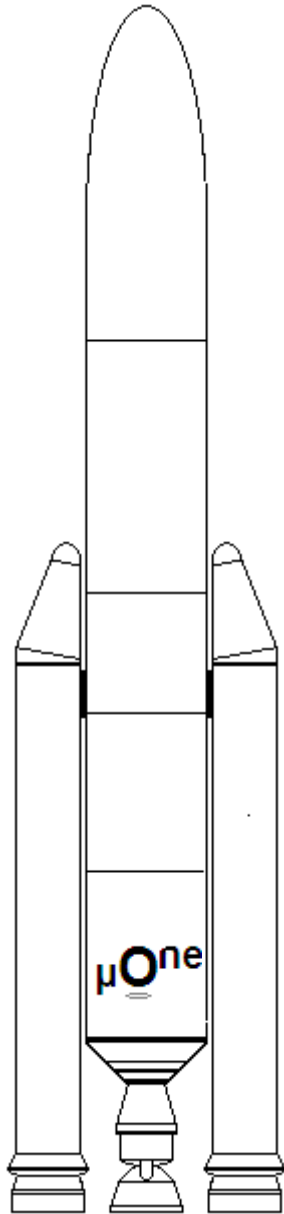
agiliaTM
INTUITIVE AUTOMATION

aim



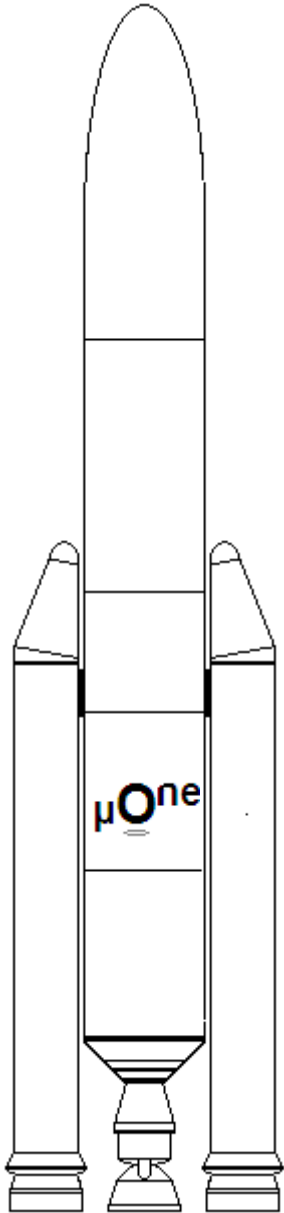
Eclipse plug-ins





◀ **Hardware Manager**

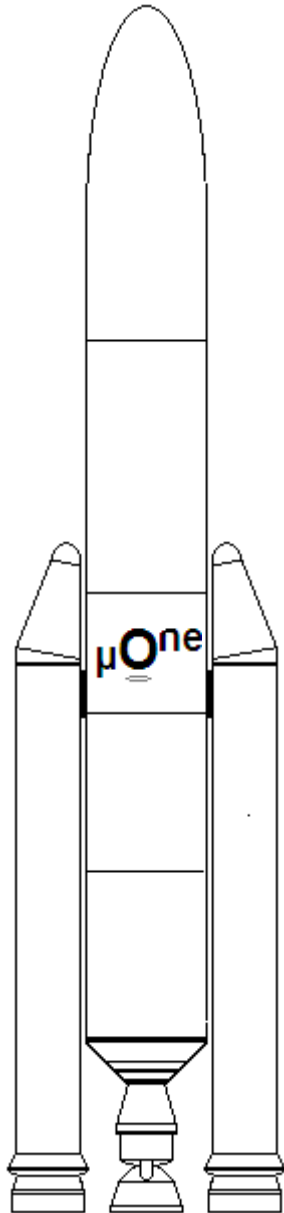
Eclipse plug-ins



← **System Manager**

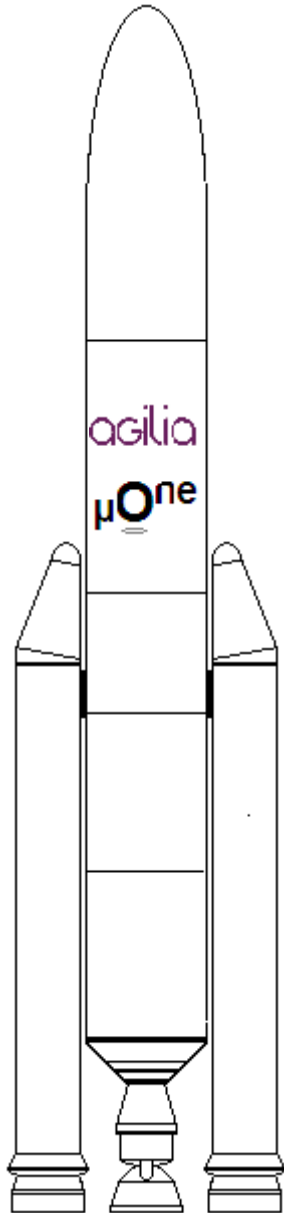
← Hardware Manager

Eclipse plug-ins



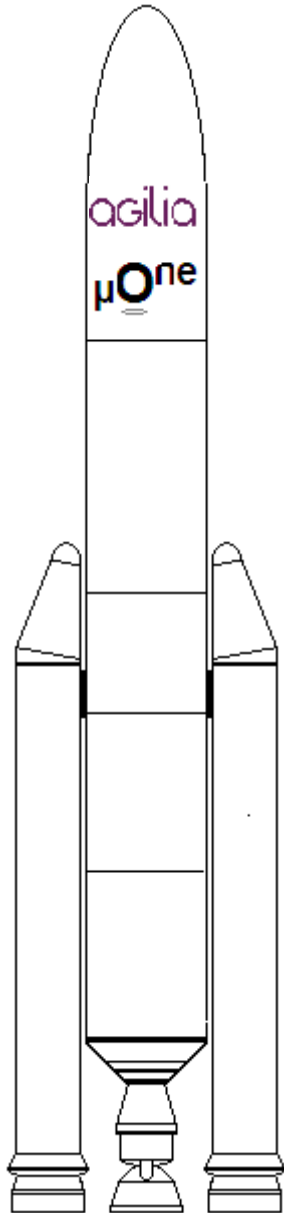
- ◀ **Resources Manager**
- ◀ System Manager
- ◀ Hardware Manager

Eclipse plug-ins



- ◀ **Application Manager**
- ◀ Resources Manager
- ◀ System Manager
- ◀ Hardware Manager

Eclipse plug-ins



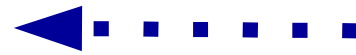
Website Manager



Application Manager



Resources Manager

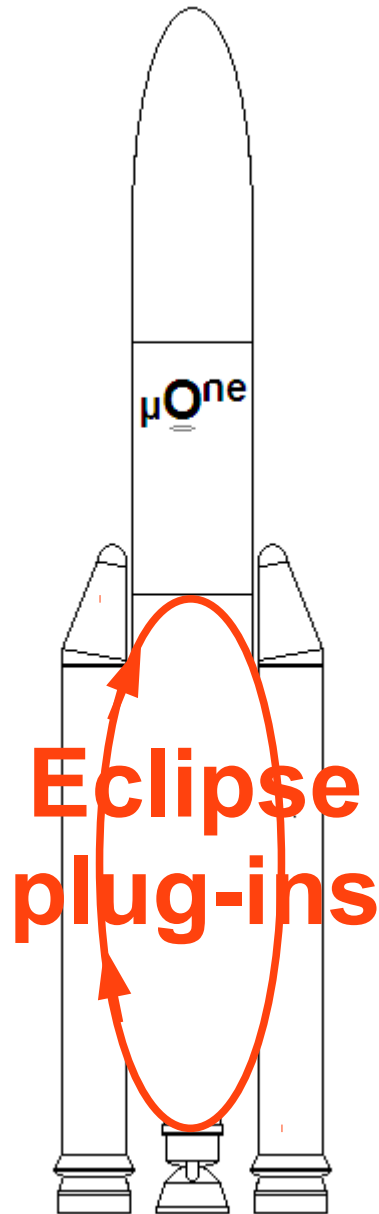


System Manager



Hardware Manager

Eclipse plug-ins



	Micro-controller pin configuration
	Reconfigure Clock Options
	Optimize Addresses
	Upload To Target
	Update Libraries
	Update Agilia Services
	Enable the IP Stack
	Generate AgCore target
	Update memory configuration
	Change System
	Create/Edit Thread in μRTS application
	Create/Edit Semaphore in μRTS application
	Update ethernet configuration
	Change Agilia communication link
	Change μRTS debug communication link



Debug - uRTSApplicationF407/threads/task3_thread.c - Eclipse SDK

File Edit Source Refactor Navigate Search Project Field Assist Run Window

Debug

uRTSApplicationF407 Debug (AIM) [AIM Launcher]

- uRTSApplicationF407
 - Thread [4] 4 (Running)
 - Thread [3] 3 (Suspended : Signal : SIGTRAP: T
 - task3_exec() at task3_thread.c:23 0x80202
 - 0x0
 - Thread [2] 2 (Running)
 - Thread [1] 1 (Running)
 - gdb

uRTSApplicationF407 Thread history

Thread History (double click on graph to update)

Threads

Time (ms)

uRTSApplicationF407 Peripheral Registers

Name

Peripherals

- RNG
- DCMI
- FSMC
- DBG
- DMA2
- DMA1
- RCC

registers:

CR

clock control register

0x03039983

fields:

- PLLI2SRDY PLLI2S clock ready flag 0
- PLLI2SON PLLI2S enable 0
- PLLRDY Main PLL (PLL) clock ready flag 1
- 1
- 0
- 0
- 1
- 1
- 10011001
- 10000
- 1
- 1
- 0x07405419
- 0x0000940a
- 0x00000000
- 0x00000000
- 0x00000000
- 0x00000000

uRTSApplicationF407 Thread Execution Times

Thread execution times (double click on graph to update)

Time (ms)

Threads

Main task2 task3 task4

842449 8280 8260 8260

uRTSApplicationF407 Console

uRTSApplicationF407 Debug (AIM)

```
0 0 1 cdad1 2 2058 3 2044 4 2044
2710 19a27f

4 3 15d39 1794b1 1 3 15d39 169081 2 0 15d9d 199c90 3 3 15d9d 1898e6 4 3 15d9d 179514 1 3 15d9d 169112 2 0 15e01 199c90 3 3 15e01 18989f 4 3 15e01 17949d 1 3 15e01 16906d
none

2000a078 2000a0e0 20005020
```

uRTSApplicationF407 Outline

- initThreads.h
- flashLED.h
- task3_exec() : THREAD

uRTSApplicationF407 Registers

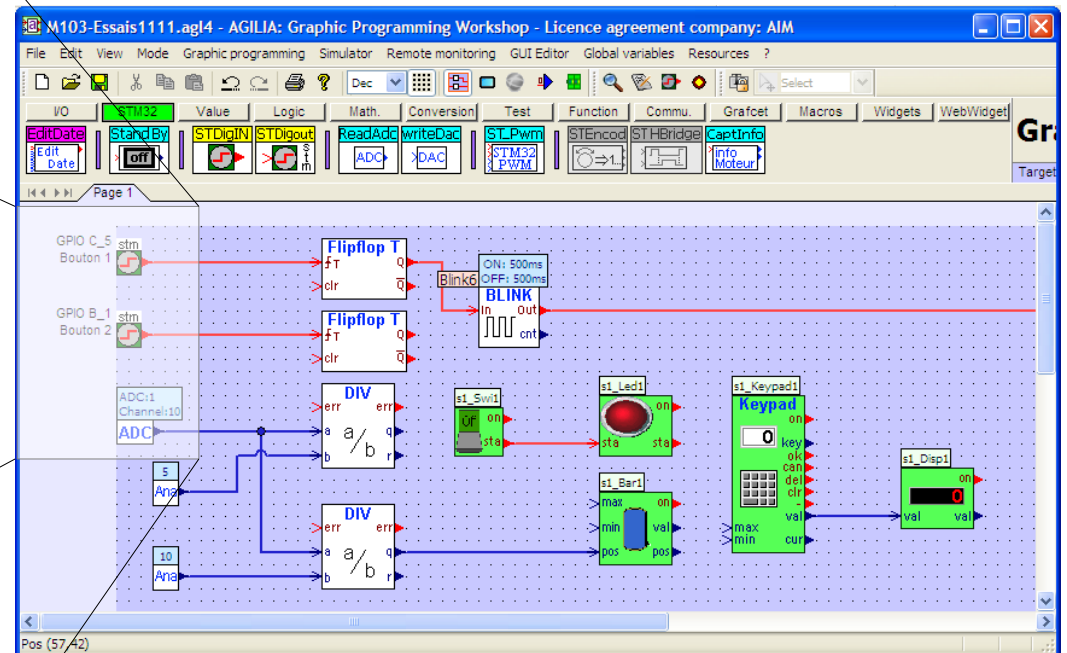
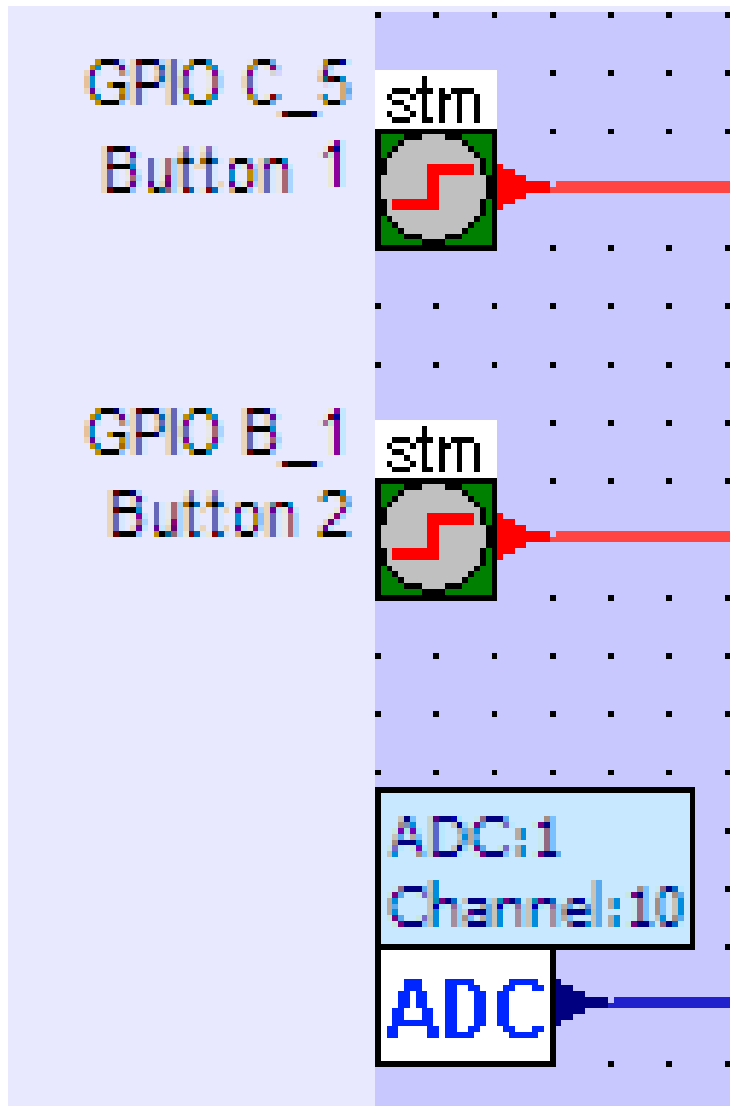
Condition Count Path

ffffff==0 1 /uRTSApplicationF407/threads/ta...

Eclipse plug-ins



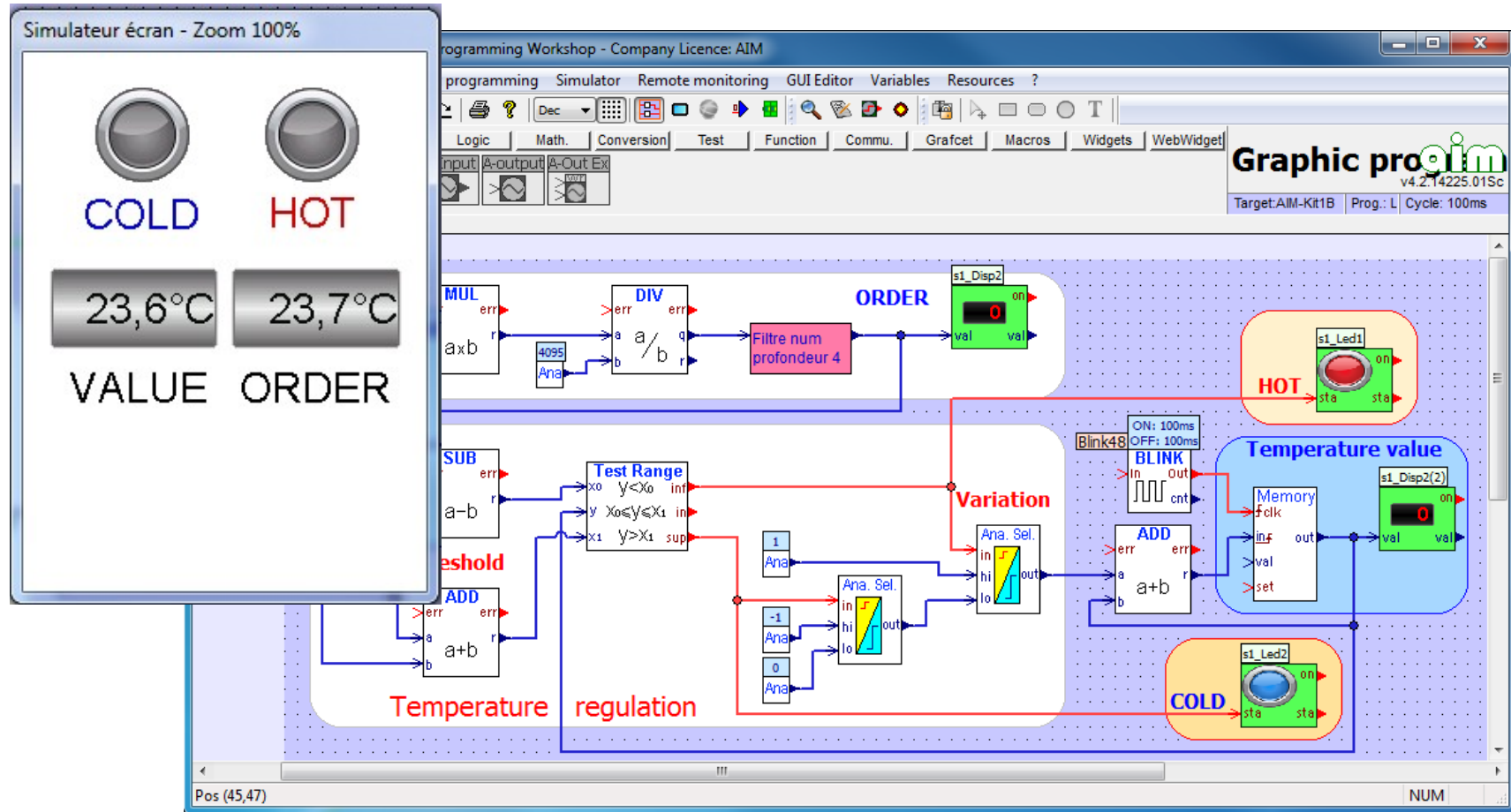
Graphic programming



GPIO STM32

Simulator

agilia™
INTUITIVE AUTOMATION



25

Simulator and remote monitoring
to save you time

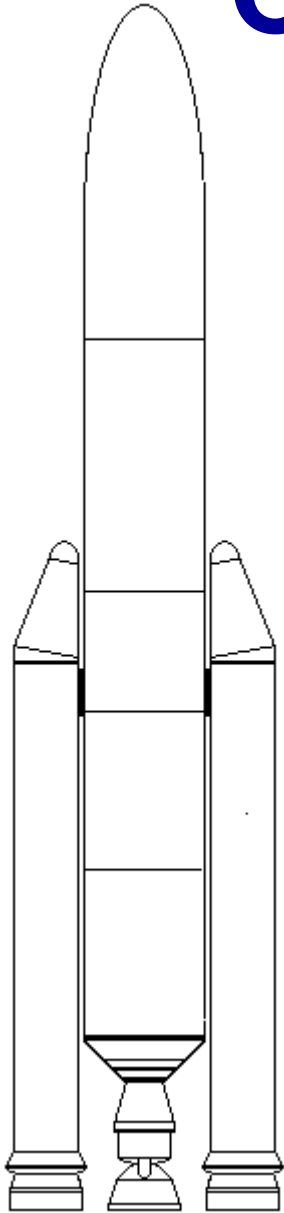
aim

Designed to be intuitive

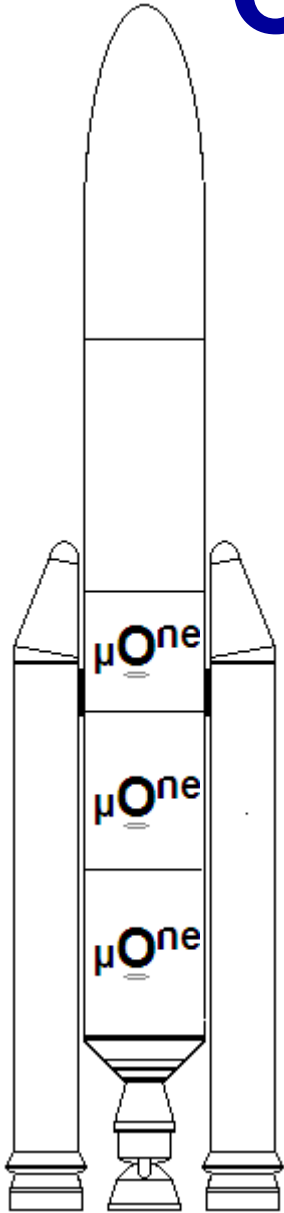
26

- GUI : Graphic User Interface
- WUI : Web User Interface
- SMTP, HTTP ...
- GPRS, SMS ...
- SPI, I²C, SDIO,
- ModBus / RTU / TCP...
-

Concept



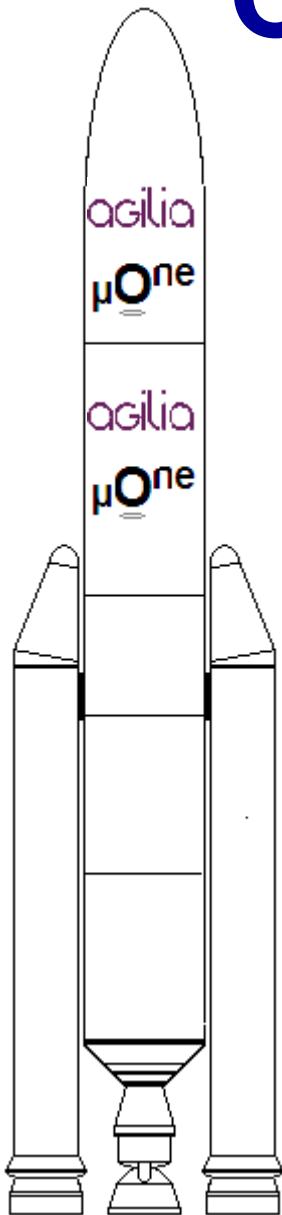
Concept



You create and
configure your
STM32 target with
μOne

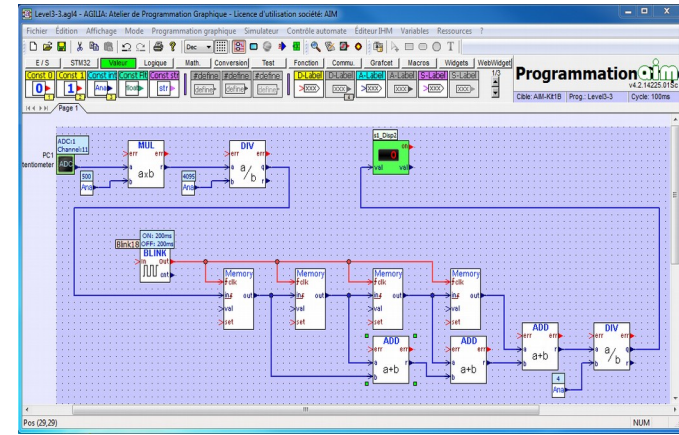


Concept



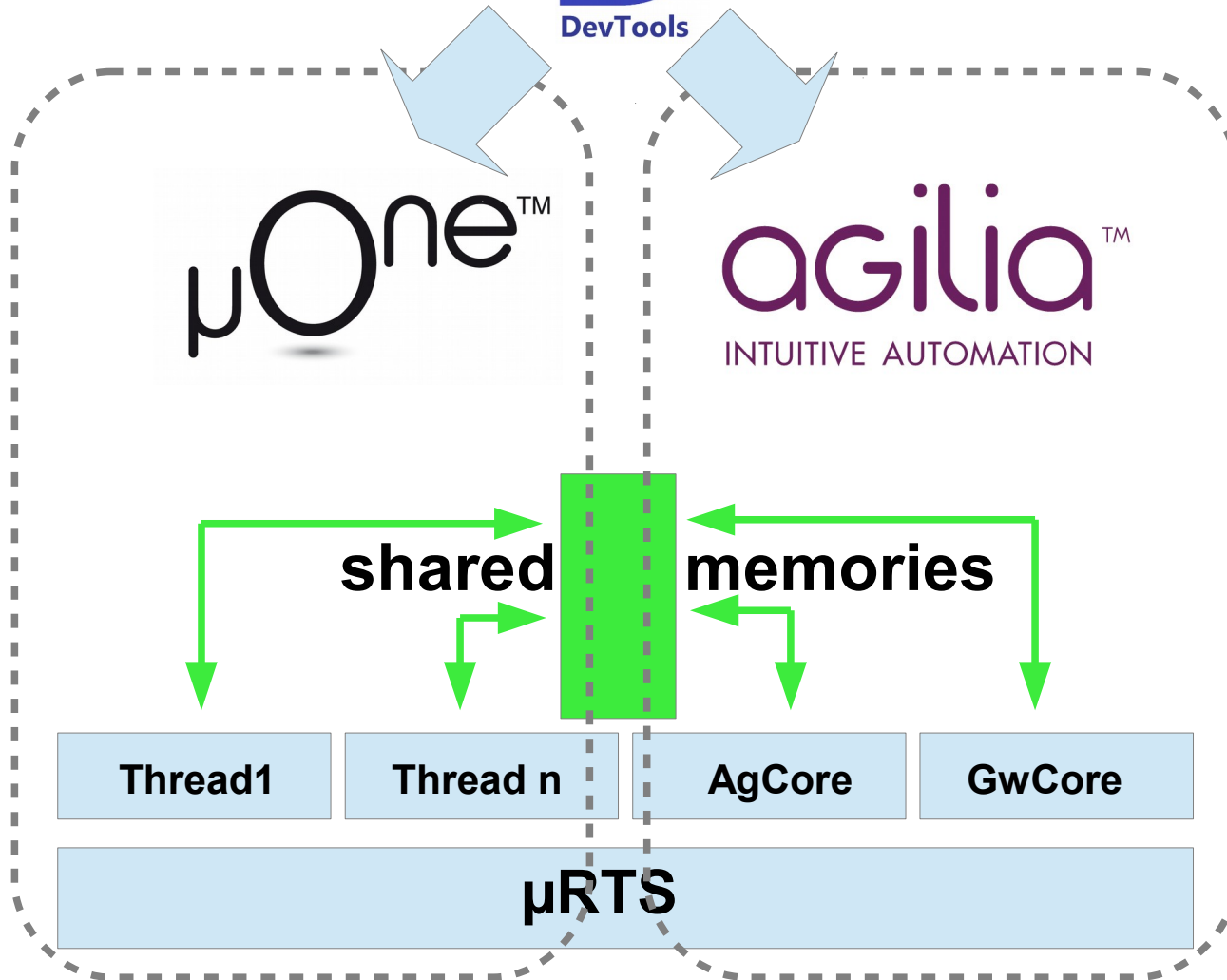
You program with
μO^{ne} & Agilia

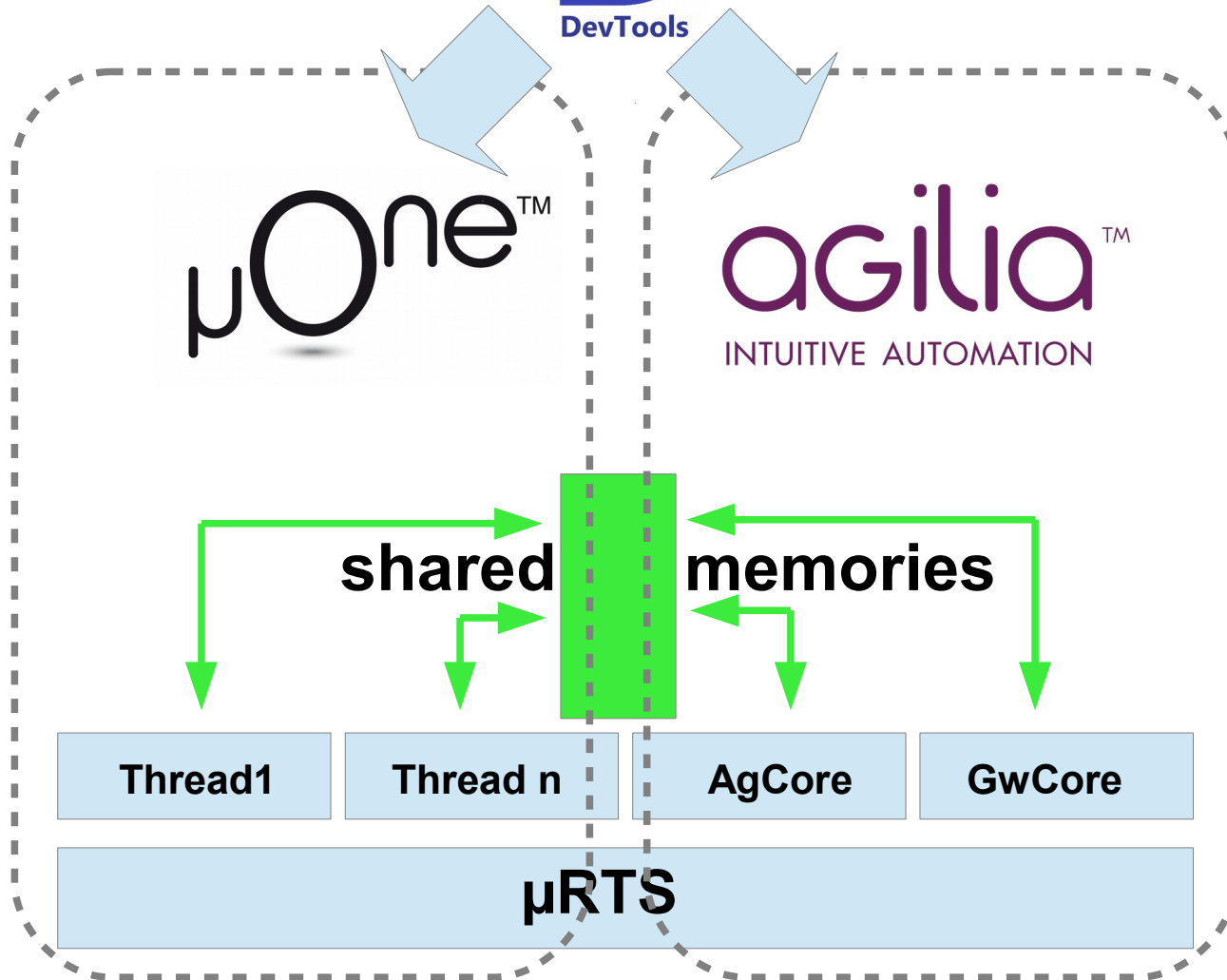
You create and
configure your
STM32 target with
μO^{ne}



29



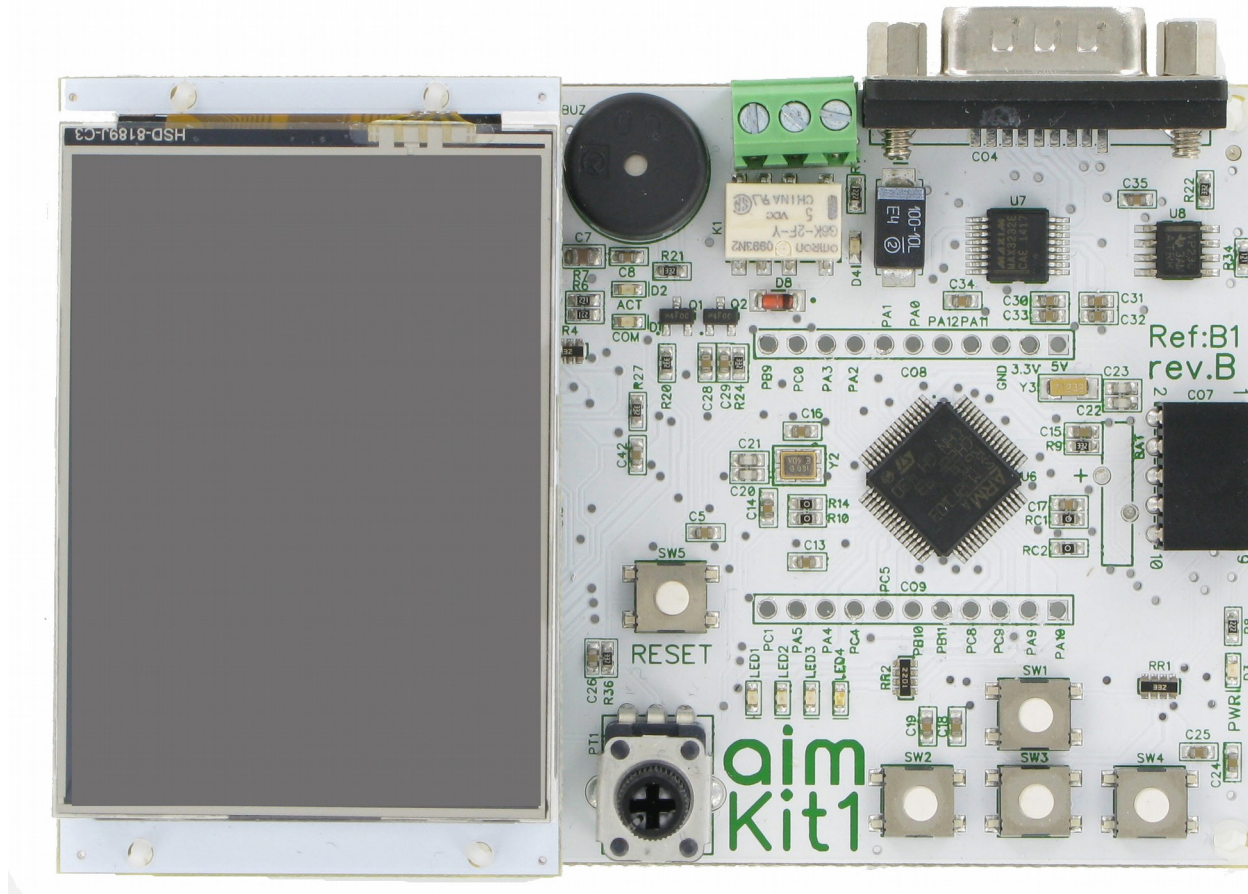




31

Achieve your goals in record time!

AIM-Kit1 + DevTools



32

Demonstration



www.aimstore.fr



Thank you for your attention