

AIM's toolbox for the STM32 family

Agilia™
INTUITIVE AUTOMATION

µOne
www.aim-plc.com
Based on Eclipse
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AIM-Link

TUTORIALS

VIDEOS

With «Manual» you can define the clock frequency

F1 PLL Configuration

System clock frequency: 72MHz

All resulting values in MHz

AIM introduces a new generation of tools for the STM32 family from STMicroelectronics.

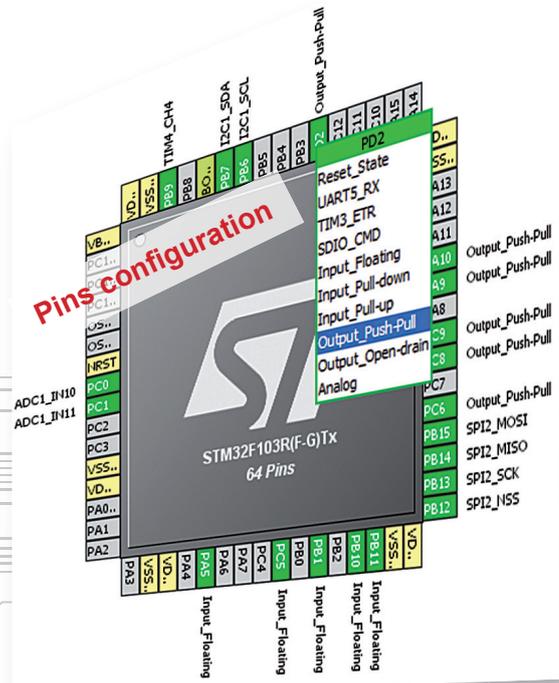
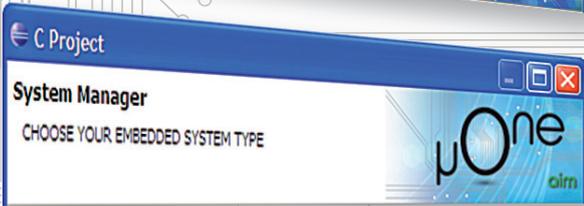
This new environment provides a very high degree of automatic compact code generation, operating systems, stacks, and GUI editors for designing HMIs and websites. Clear online help allows you to immediately start developing applications.

The AIM offer comprises two environments **µOⁿ** & **Agilia** and a complete set of libraries.

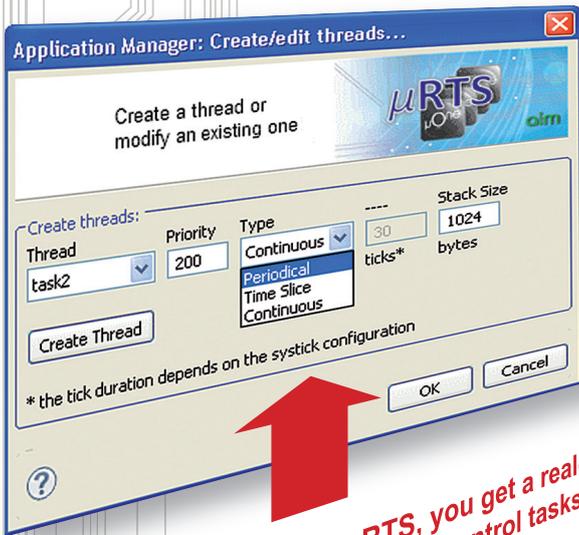
a global solution for increased productivity

aim

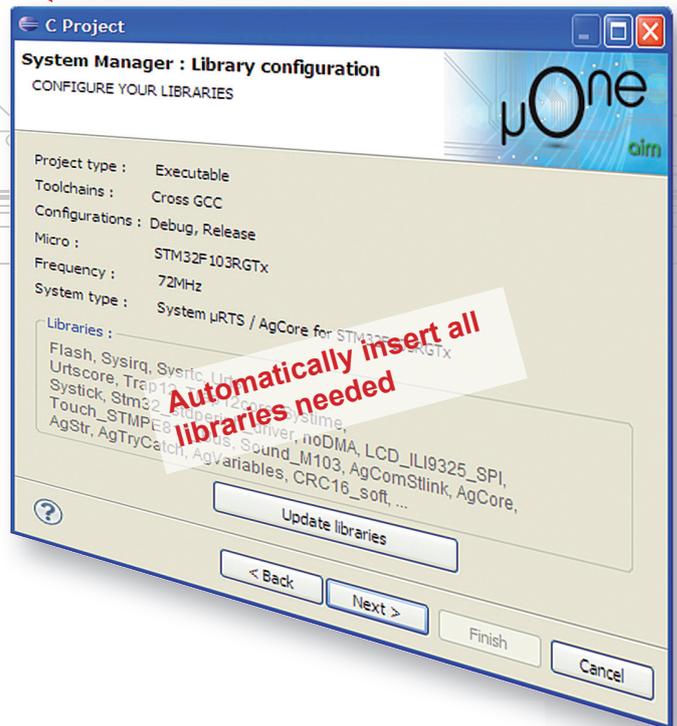
The μ O^{ne}™ environment based on Eclipse



or resume any element later



With μ RTS, you get a real-time debugger to control tasks without stopping the processor.



Automatically insert all libraries needed



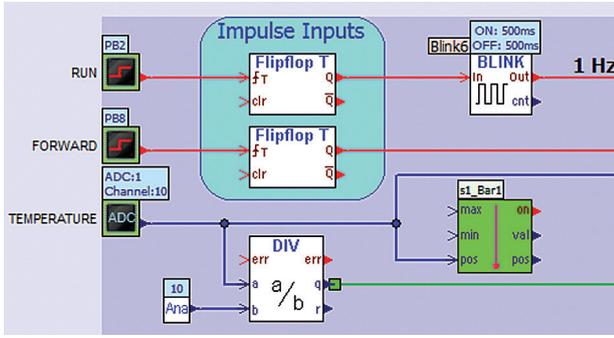
With μ O^{ne} you construct your hardware by clicking on options in the wizard and then selecting the embedded operating system, libraries and services you need: real time kernel μ RTS, Agilia engine, IP Stack etc. When you click Finish, μ O^{ne} generates the code and uploads it. Your target is now operational!

All that's left to do is program your application using μ O^{ne} and/or Agilia.

a professional workbench

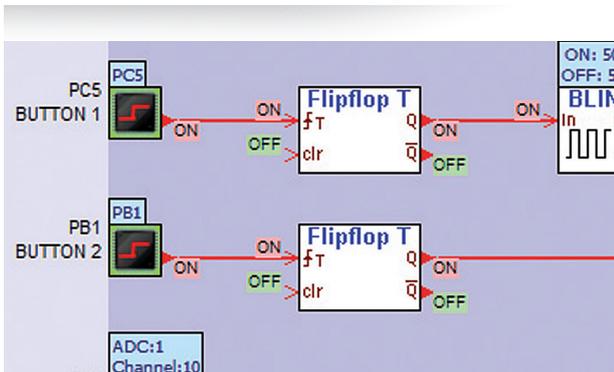
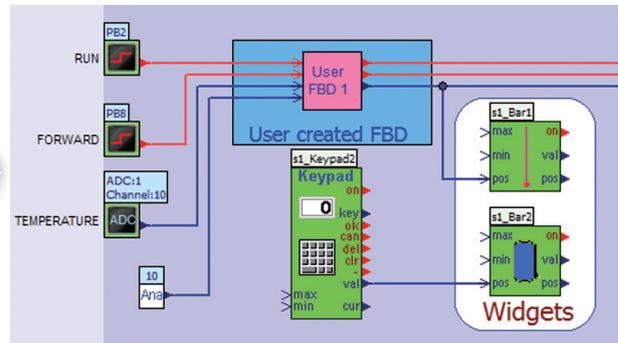


"With the graphic programming workshop **Agilia**, you drag and drop function blocks then join them together with virtual wires. You debug in real time or by using functional simulation on your PC. For targets with a touch screen, you can quickly create your HMI with Agilia's screen editor without writing a single line of code!"



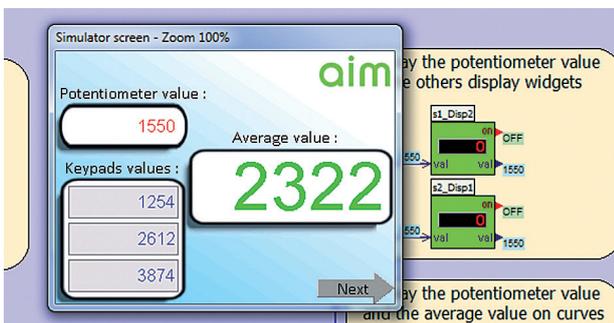
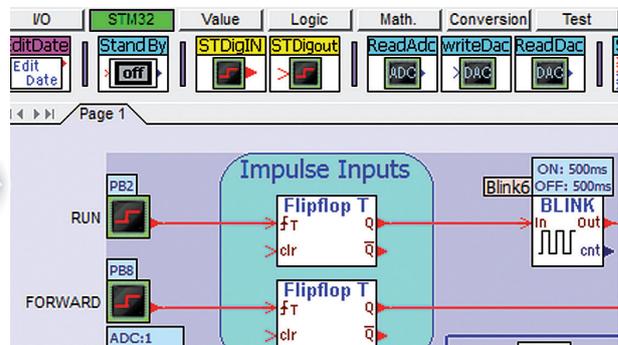
Intuitive programming: Unlike with code, you can see what the program does by looking at its graphical representation. An additional editor allows you to highlight and comment it.

Powerful programming: Agilia offers more than 200 function blocks providing complex functions such as SDCard management, curve displays, protocols, plus the ability to create your own function blocks and **embedded web sites** without writing a line of code!



Online debug and simulation: in both cases, your program comes alive on your screen. Apart from helping you debug your program and design your HMI, the simulator is a valuable tool for understanding how the function blocks work.

Specific for STM32: Agilia offers function blocks specific to STM32 functions and GPIOs: I/O, PWM, Coder, Half-bridge, motor control, SPI, USB, communication and so on... Agilia takes care of managing the lower layers of software for you.



Real time environment: Agilia works in parallel with the real time kernel μ RTS. For your specific needs, you can develop critical code in C with μ O^{ne}. Otherwise, you may prefer **Agilia** to save time with its many features: HMI, web server, curve display, communication protocols such as sms, email, etc...

a powerful development environment



AIM's toolbox for the STM32 family is the industrial outcome of IO32, a project promoted by MINALOGIC, the global competitive cluster for micro and nanotechnologies and software in France. Five professional partners in embedded software set themselves the goal of creating a new approach to STM32 development. The result is a breakthrough in the industry: a set of innovative, more efficient and easy to use programming tools.

The toolbox makes STM32 development up to 10 times faster, expanding it to a new audience.

Example 1: "When you progress through the definition of your hardware and software architecture, μO^{ne} deduces the libraries and services you will need. When you click "Finish", it generates and uploads the code to your target hardware. If you selected **AgCore** as the operating system, then you have a PLC in complete working order that you can program with **Agilia**, and this in less than an hour!"

Example 2: "Using Agilia's WUI (Web User Interface) you can create an embedded web site in your target without writing a single line of code. Agilia automatically generates the code needed in HTML5, JavaScript, CSS and Ajax. This is the magic of **AIM's toolbox** for STM32."

AIM's toolbox for the STM32 family is particularly effective because of its consistency. Professionals have at their disposal mutually compatible features and the right tool for each of their needs. They are thus more efficient, faster and more confident.

μO^{ne} , Agilia : trademarks of AIM. STM32 products of STMicroelectronics

A complete set of libraries: to find the right tool for every need!

General

Bus A6
CRC16 Soft
CRC32 Hard
CRC32 Soft
Flash
Resources
SHAI Hard
SHAI Soft
STM32 Std...
Svc Core
Svc Library
SysDelay
SysIRQ
SysRTC
SysTick
Variables SC

Communication

DHCP
DNS Resolver
Driver Phyter Int.
Driver MII/RMII
Echo TCP/UDP
GPRS Management
I2C Master
ModBusRS Client
ModBusTCP Server
Modem

MSC_FS
MSC_HS
SDCard_SDIO
SMS
SMTP Email
SNTP Synchro
Socket
SPI
Stack IP V4
Stack IP V6
Stack IP V4/V6
SysLog Client
Telnet Server
UART

AGILIA AgCore

Agilia Core
Agilia e.MetaG
Agilia StrFormat
Agilia String
Agilia TryCatch
Agilia Variables

AGILIA Services

Service Bus A6
Service GPRS
Service GwCore 16 BPP
Service HTTP Server
Service ModBusRS Client

Service RTC
Service SDCard
Service SMS
Service SMTP Email
Service Socket
Service SPI
Service STM32 Encoder
Service STM32 Hbridge
Service STM32 PWM
Service STM32
Service UART
Service Variables SC

AGILIA Drivers

Agilia Com. Ethernet
Agilia Com. AIM-Link
GwCore no DMA
IL19320-STM3240G-Eval
Sound Null
Sound Mxxx
Touch Null
Touch STME811 Bus

μ RTS

Debug Com. Ethernet
Debug Com. UART
 μ RTS Core
 μ RTS Embedded Debugger
 μ RTS Library



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