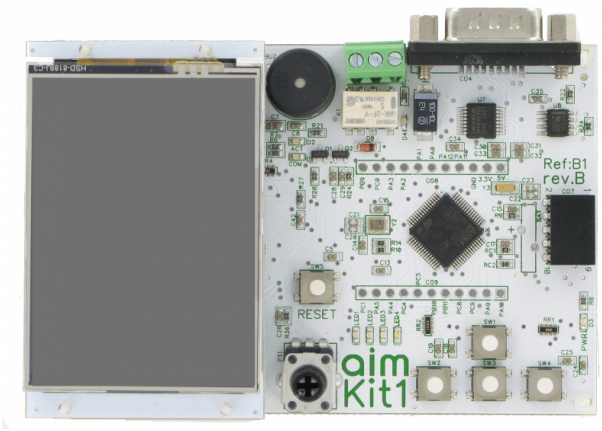
AIM-Kit1

AIM-Kit1-Evaluation boards for STM32

Data brief



Features

- AIM-Kit1-Evaluation board for STM32 F0, F1, F2, F4 & L1
- 2,4" 240×320 TFT color LCD with touch screen (except F0)
- RS-232 channel (RX, TX, /CTS, /RTS)
- CAN 2.0 A/B channel for F1, F2 and F4
- 1 relay output (R/T)
- 4 user buttons
- 1 reset Button
- 4 color LEDs
- 1 Analogic potentiometer
- 1 piezoelectric buzzer
- RTC with backup (battery not included)
- Extension connector CO6 18 pins for daughter board left side
- Extension connector CO7 10 pins for daughter board right side
- Extension connector CO8 8 GPIO
- Extension connector CO9 11 GPIO

Description

The AIM-Kit1-Evaluation boards are development platforms for the STM32 family of micro-controllers from STMicroelectronics available with ARM Cortex M0, M3 or M4 processors.

A wide range of hardware features and software tools help you to evaluate the chosen micro-controller using several programming contexts: FBD (Functional Block Diagrams), C language, GUI and real time applications.

Tutorials, videos and clear online help enable you to start developing applications immediately.

Extension headers make it easy to connect daughter boards to add industrial I/Os, Motor control, Ethernet, etc... In this way you can quickly learn how to program in a practical context.

The AIM-Kit1-Evaluation board integrates the AIM-Link which can be easily used for SWD interface programming and debugging. The board is powered via USB connector.

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Software package: DevTools

The AIM-Kit1-Evaluation board is ready to use, all you need is a USB cable and a computer running the **DevTools** software package, this package includes two programming environments: **µO^{ne} & Agilia** and a comprehensive **set of libraries.**

µO^{ne}, based on Eclipse, incorporates a step by step wizard which helps you program the embedded system you need; Bare Metal, µRTS or AgCore. (µRTS and AgCore are the real time operating systems from AIM). After you make your selections, all configuration code is generated automatically, all you have to do is program your application.

With the graphical programming workshop **Agilia**, you drag and drop function blocks, then link their inputs and outputs together with virtual wires to create your application. You can debug in real time or by using functional simulation on your PC. You can quickly create a GUI on the AIM-Kit1's touch screen using pre-defined widgets or your own images, and all this without writing a single line of code!

Clear online help including videos and examples allow you to rapidly understand this already intuitive system.

To download the latest version of the AIM-Kit1 DevTools package, go to www.aim-plc.com.

Demonstration software

Demonstration software is preloaded in the AIM-Kit1's Flash memory presenting an example of a functional GUI quickly programmed using **Agilia**.

To download the source code for the Agilia demonstration software, go to www.aim-plc.com.

DevTools's tutorials

Five tutorials help you to quickly become operational: - µO^{ne} Installation (15') - Creating a Bare Metal project (45') - Creating a µRTS system and application (20') - Managing a µRTS application (60') - Creating an AgCore system (60')

Ordering information

Order code	Reference	µ-controller	Flash	SRAM
AIM-Kit1-F051	AIM-Kit1-Evaluation board F051	STM32F051R8T	64 KB	8 KB
AIM-Kit1-F103	AIM-Kit1-Evaluation board F103	STM32F103RGT6	1024 KB	96 KB
AIM-Kit1-F205	AIM-Kit1-Evaluation board F205	STM32F205RGT6	1024 KB	128 KB
AIM-Kit1-F405	AIM-Kit1-Evaluation board F405	STM32F405RGT6	1024 KB	192 KB
AIM-Kit1-F415	AIM-Kit1-Evaluation board F415	STM32F415RGT6	1024 KB	192 KB
AIM-Kit1-L152	AIM-Kit1-Evaluation board L152	STM32L152RBT6	128 KB	16 KB

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