aim

AIM-Kit2

AIM-Kit2-Evaluation boards for STM32F767NIH6

List of elements for the Kit 2

Features

- **CPU**
- STM32F767NIH6 microcontroller
- 2 Mbytes of Flash memory
- 512 Kbytes of SRAM
- 4 Kbytes of backup SRAM
  (battery not included)
  in BGA 216 package

- **Memory**
- 8 Mbytes SDRAM accessible
- 16 Mbytes Quad-SPI Flash memory
- SDMMC interface micro SD Card
  (2 GB or more)

- **User interfaces**
- 3 status LEDs + Power LED
- User button and Reset button
- 4,3 inch 480x272 color LCD-TFT
  with resistive touch screen
- Connector for microSD card
- Buzzer
- Potentiometer

- **Communication interfaces**
- USB Full Speed Micro-AB
- RS-232 (Rx, Tx ,/CTS, /RTS)
- CAN 0A/B
- Ethernet compliant with
  IEEE-802.3-2002

- **Debug interfaces (Micro-AB)**
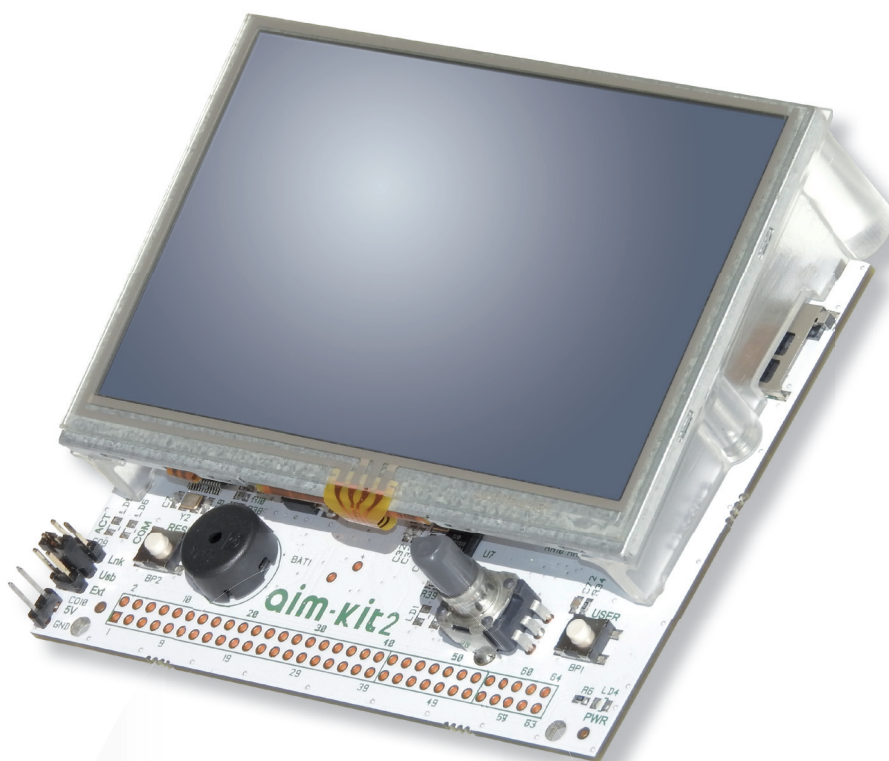- On-board AIM-LinkH SWD
  embedded 2 LEDS for multi-debug
  identification

- **Three power supply options**
- Debug interface Micro-AB
- USB user Micro-AB
- 5 Vdc external from extension
  connector

- **Extension connector**
- 2x32 pin 0,1'' for daughterboard
  or wrapping board
- 42 GPIO - 4 3,3V - 3 5V - 11 Gnd

Description

The **AIM-Kit2** is a demonstration and development platform for STM32F767NIH6 from STMicroelectronics microcontrollers ARM® Cortex®-M7 core-based.

For professional developers, the **AIM-Kit2** has high processing power, communications and memory capacity. Its 2x32 pin connector and extension card facilitate testing of prototypes and makes the AIM-Kit2 reusable for many experiments.

The **AIM-Kit2** is a superb platform to rapidly create modular test benches in laboratories, industry and technical education. With its colour touch screen you create your GUI and exploit the 42 GPIOs found on the connector to control your experiments. Its Ethernet port and micro SD card can be used for data archiving. Program your applications quickly with A.I.M.'s Graphical programming Workshop: Agilia.

System requirements

- Windows OS : 7, 8, 10
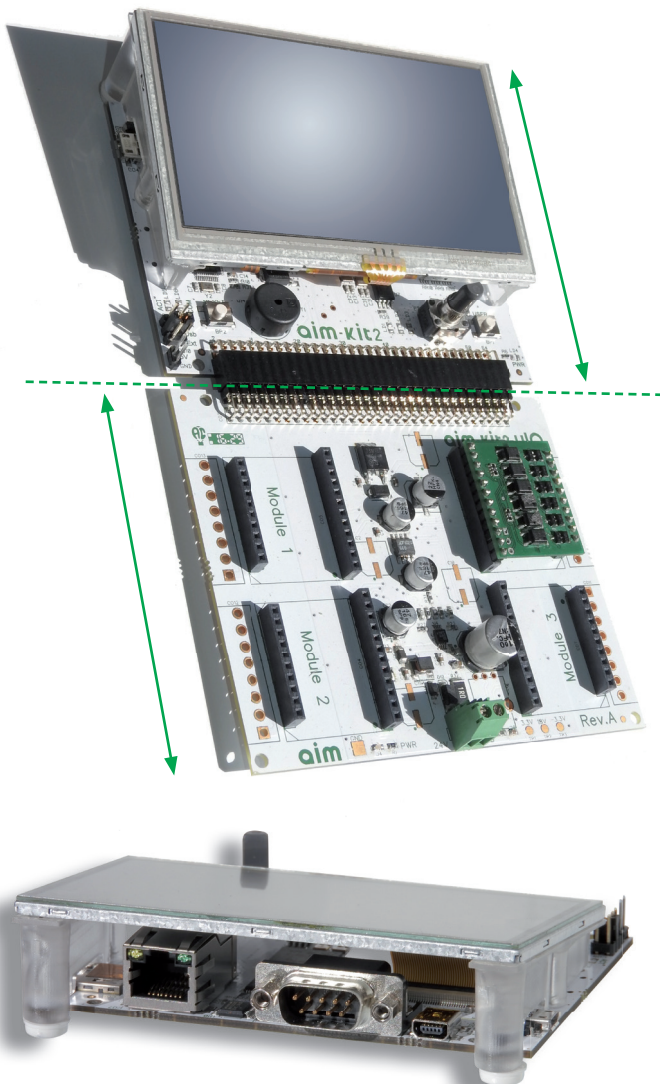- USB type A to mini-B cable

Ordering information

To order the evaluation board with a STM32F767NIH6 CPU, use the order code: AIM-Kit2-A

www.aim-plc.com

AIM-Kit2

AIM-KIT2 modèle déposé

Extension headers to connect a daughterboard

N°	Signal	Signal	N°
1	3,3 V	5 V	2
3	PH11	5 V	4
5	PH12	GND	6
7	PH10	PB10	8
9	GND	PB11	10
11	PB14	PB7	12
13	PB12	GND	14
15	PB13	PC0	16
17	3,3 V	PE3	18
19	PB5	GND	20
21	PA6	PE4	22
23	PA5	PA4	24
25	GND	PF10	26
27	PH8	PA8	28
29	PI0	GND	30
31	PE6	PB15	32
33	PE5	GND	34
35	PC7	PD11	36
37	PG6	PB4	38
39	GND	PG3	40
41	n.u.	n.u.	42
43	3,3 V	P19	44
45	PG7	GND	46
47	PGI0	PHI5	48
49	STMPE_I/O 1	STMPE_I/O 0	50
51	STMPE_I/O 3	STMPE_I/O 2	52
53	n.u.	n.u.	54
55	5 V	GND	56
57	PH4	PI11	58
59	PG12	PI4	60
61	PG9	PC6	62
63	GND	3,3 V	64

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