

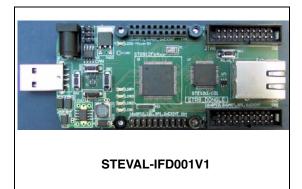
STEVAL-IFD001V1

Full USB dongle based on STR912

Data Brief

Features

- 42x GPIOs
- 8x ADC
- 3x UARTs
- 2x SPI
- 12C
- CAN
- USB slave (full-speed)
- Ethernet (STE100 or STE10)



Description

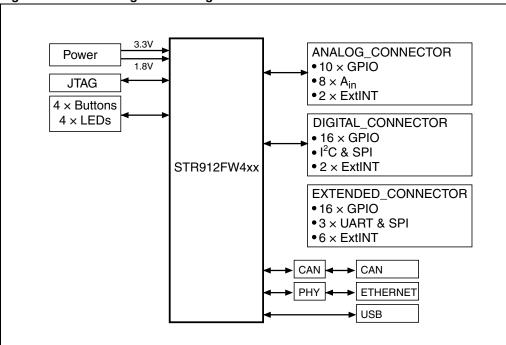
This board is a general-purpose development platform for all applications based on the STR912 ARM 9 core microcontroller. It can be also used as a UART-SPI-I2C-USB-CAN-ETHERNET bridge. The board can be extended with options of a MEMS, Flash memory and an LCD display. The MEMS (micro-electomechanical-system) extension enables the sensing of 2 or 3-axial motion (acceleration or vibration). Both analog and digital sensors are supported. The Flash extension allows up to 1 Gbyte of memory to be added to the application. This additional memory can be connected through a parallel interface and is accessible through a Flash memory driver on board. The LCD extension allows most popular LCD displays to be connected to the main board. For more information please refer to the document UM0282.

Block diagram STEVAL-IFD001V1

1 Block diagram

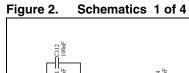
This board is based on STR912FW4xx which provides calculation power up to 90MIPS.

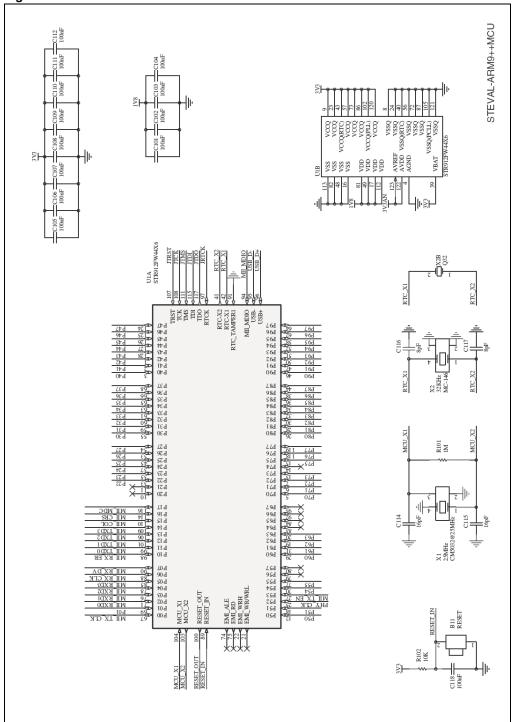
Figure 1. STR9 dongle block diagram



STEVAL-IFD001V1 **Schematics**

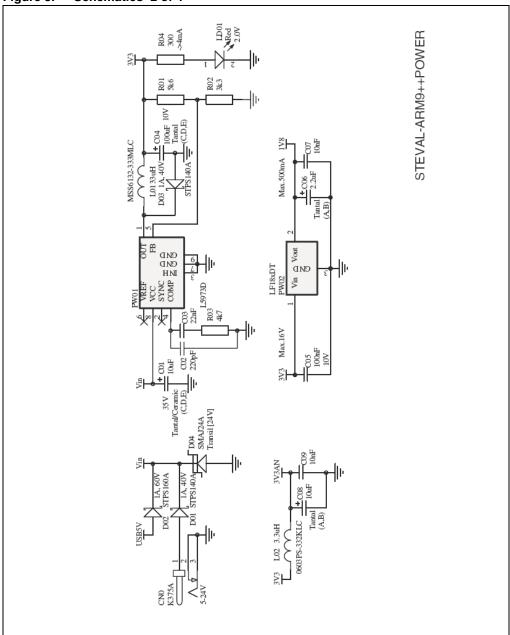
2 **Schematics**





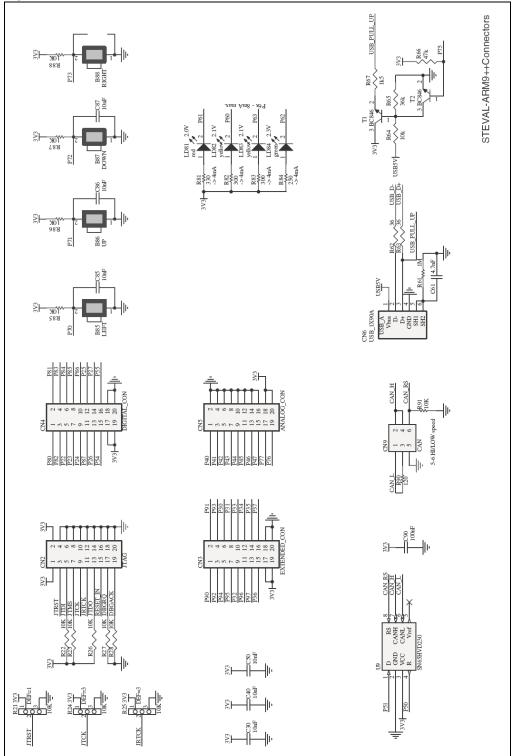
Schematics STEVAL-IFD001V1





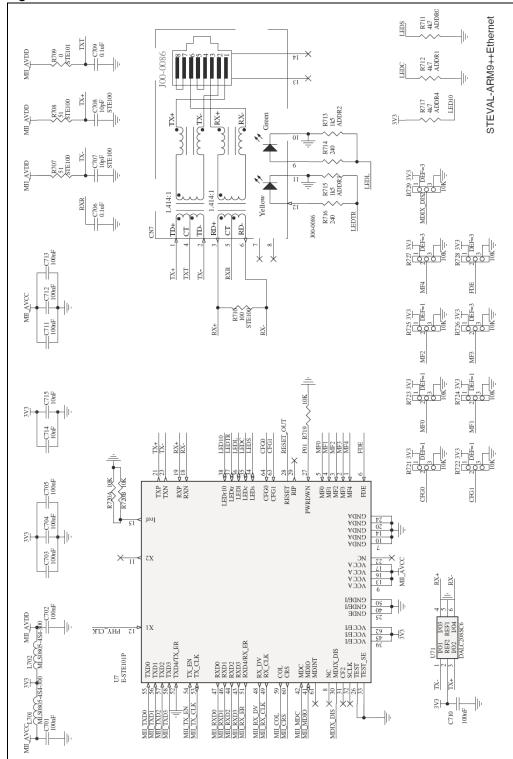
STEVAL-IFD001V1 Schematics





Schematics STEVAL-IFD001V1

Figure 5. Schematics 4 of 4



STEVAL-IFD001V1 Revision history

3 Revision history

Table 1. Document revision history

Date	Revision	Changes
22-Oct-2007	1	Initial release

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