



STEVAL-IFD001V1

Full USB dongle based on STR912

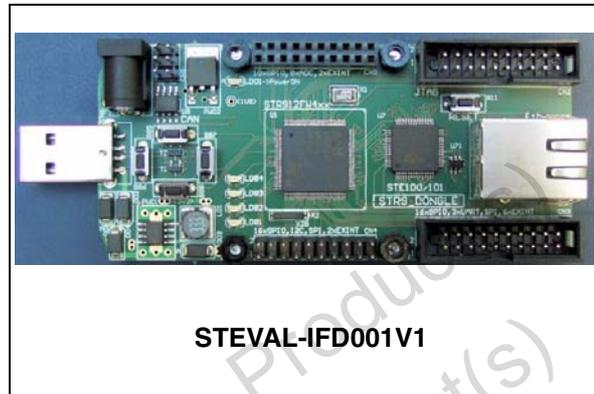
Data Brief

Features

- 42x GPIOs
- 8x ADC
- 3x UARTs
- 2x SPI
- I2C
- CAN
- USB slave (full-speed)
- Ethernet (STE100 or STE10)

Description

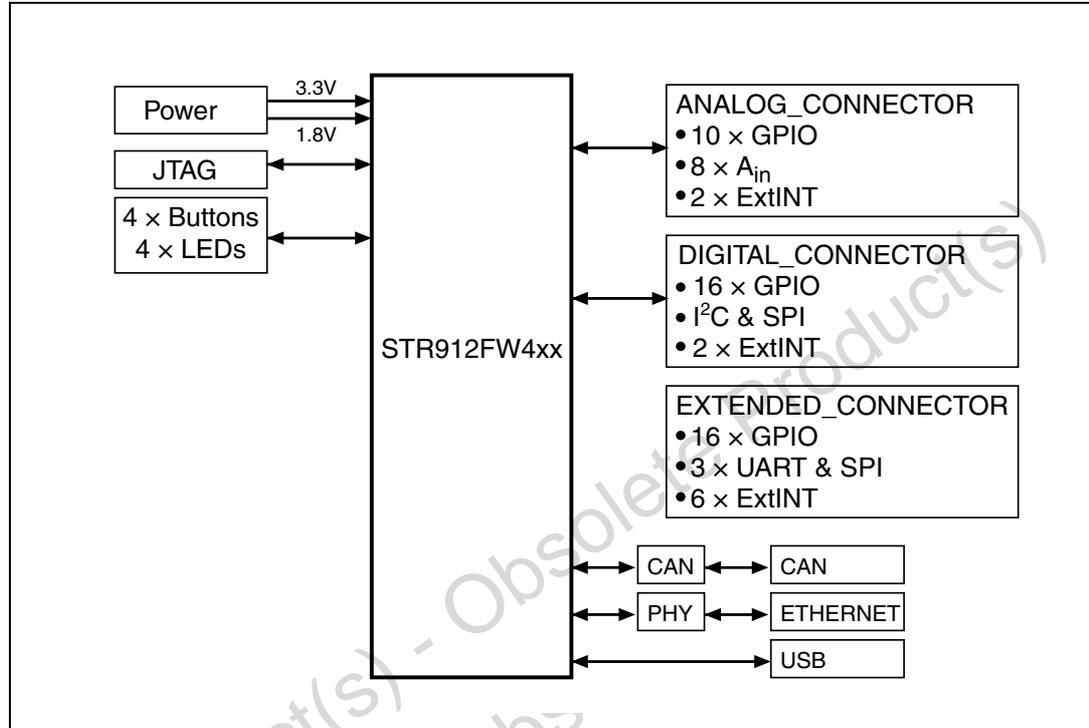
This board is a general-purpose development platform for all applications based on the STR912 ARM 9 core microcontroller. It can be also used as a UART-SPI-I2C-USB-CAN-ETHERNET bridge. The board can be extended with options of a MEMS, Flash memory and an LCD display. The MEMS (micro-electromechanical-system) 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.



1 Block diagram

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

Figure 1. STR9 dongle block diagram



2 Schematics

Figure 2. Schematics 1 of 4

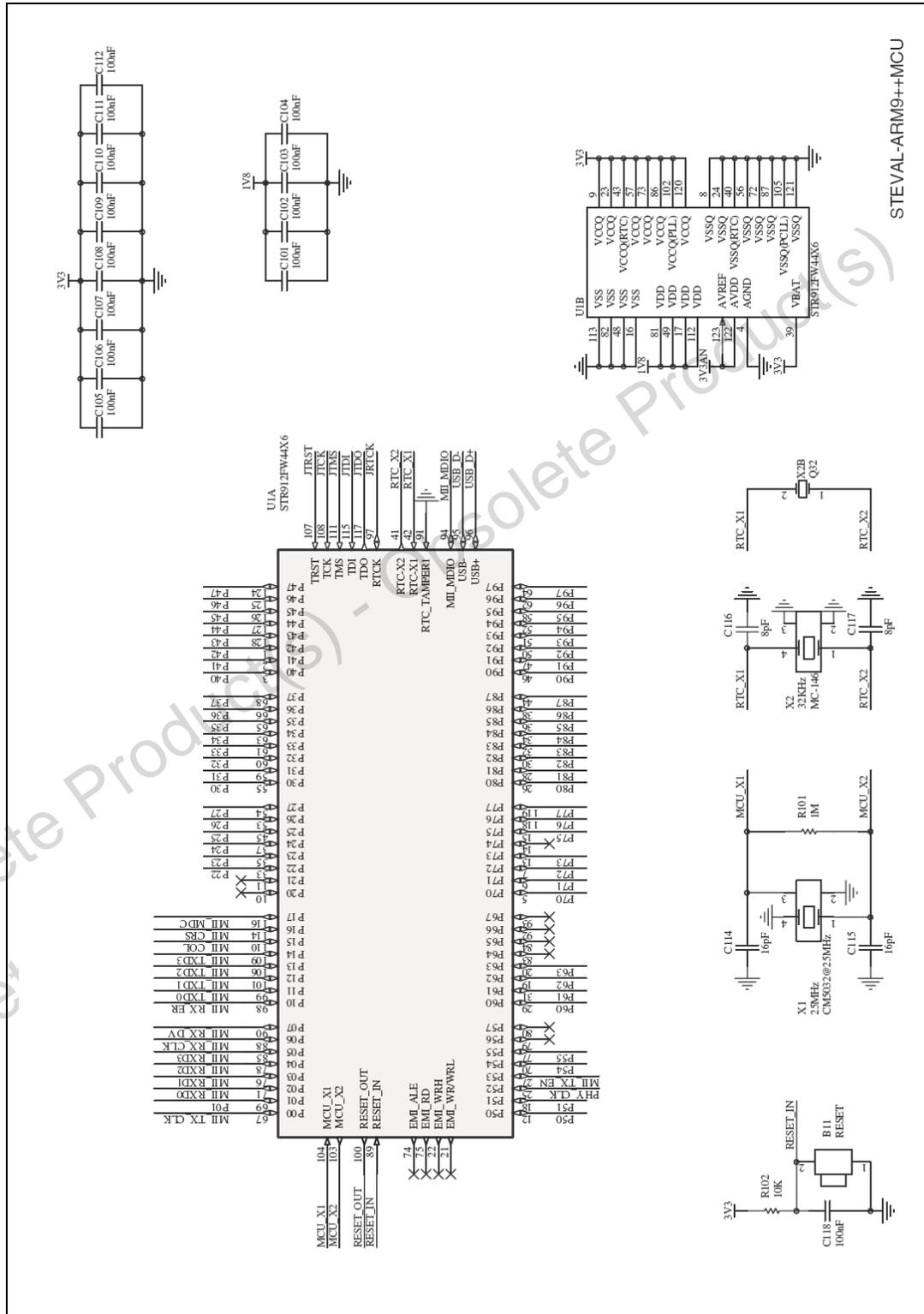
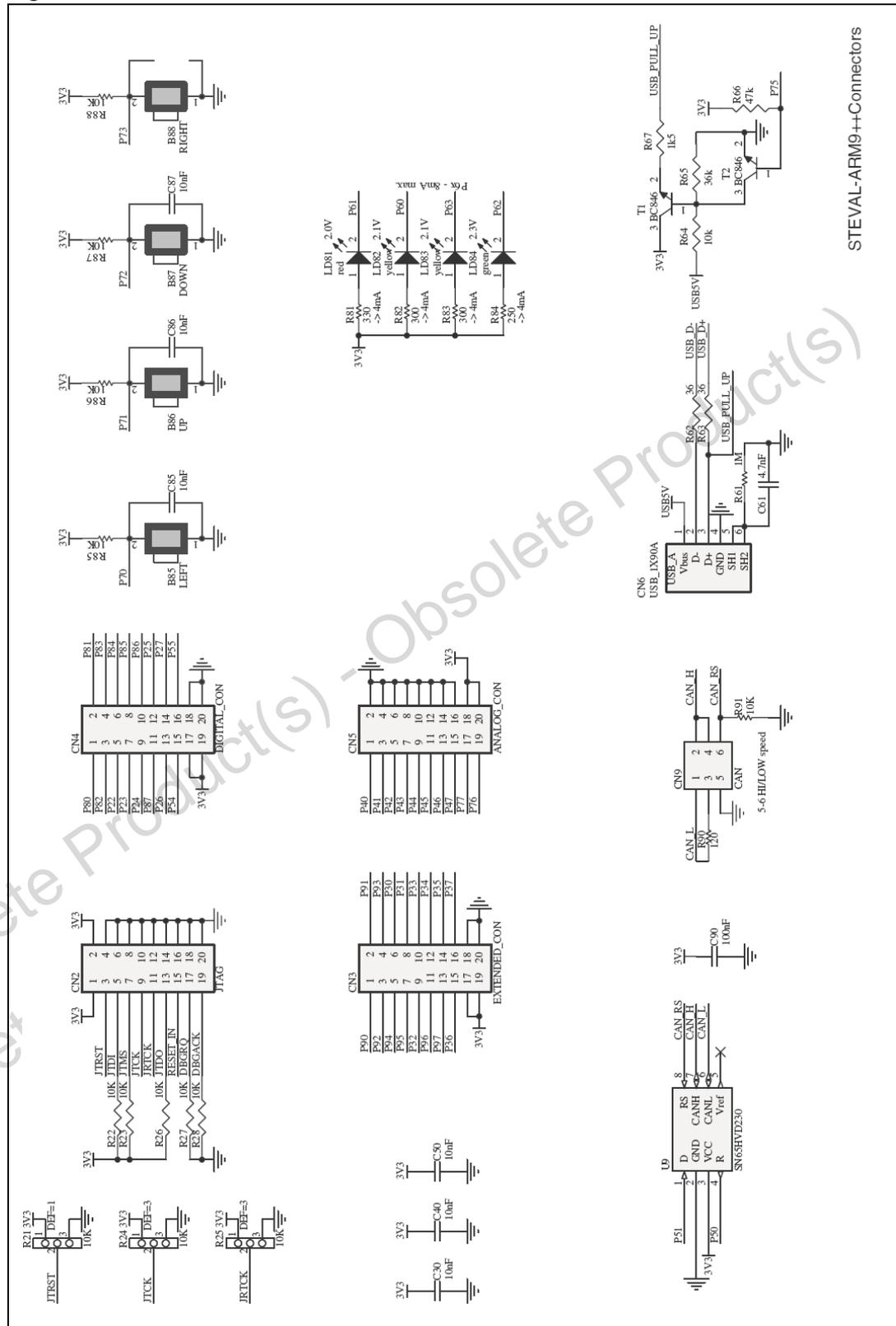
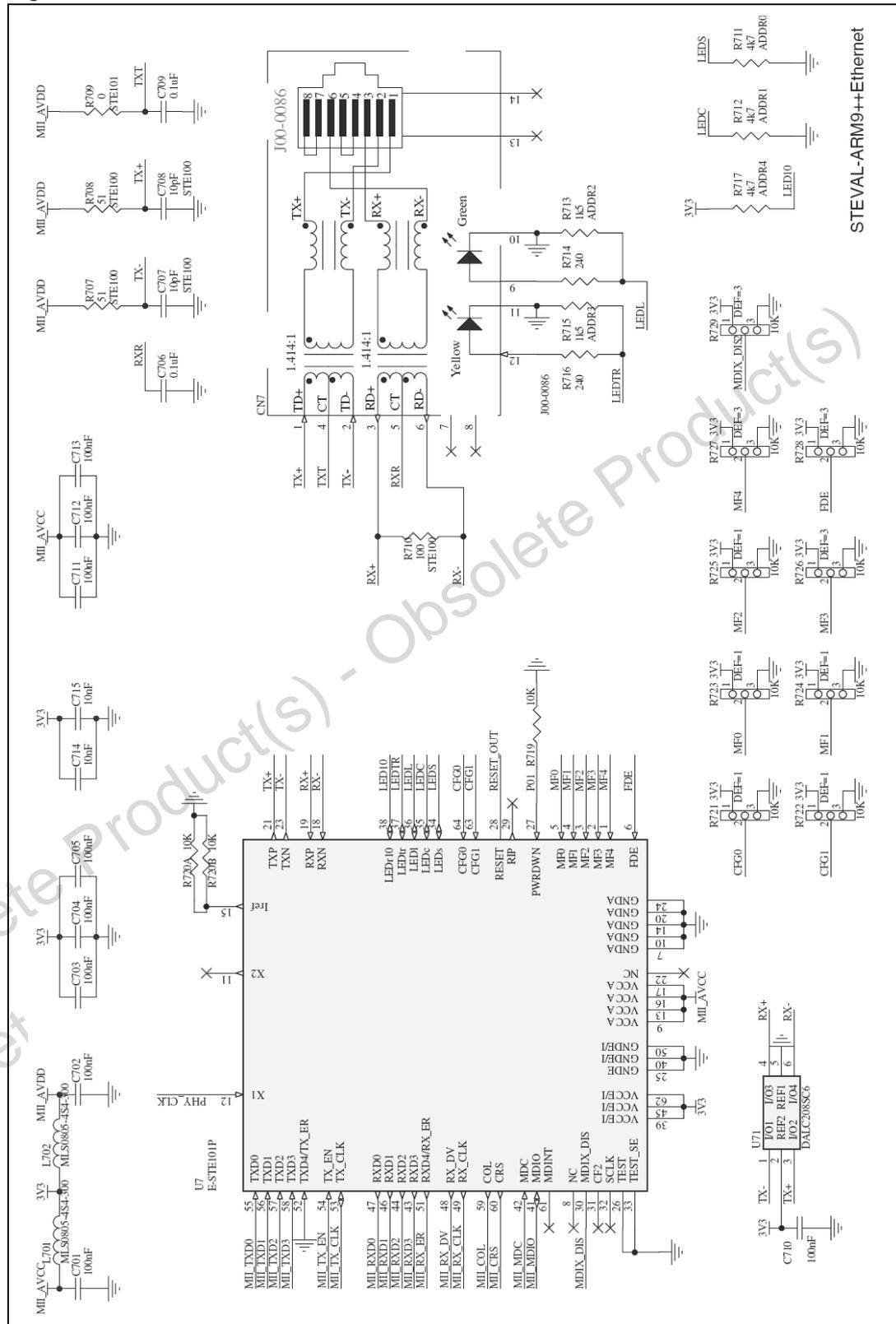


Figure 4. Schematics 3 of 4



STEVAl-ARM9++Connectors

Figure 5. Schematics 4 of 4



3 Revision history

Table 1. Document revision history

Date	Revision	Changes
22-Oct-2007	1	Initial release

Obsolete Product(s) - Obsolete Product(s)
Obsolete Product(s) - Obsolete Product(s)

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