

STEVAL-IDX001V1

STM32F103-based extendible motherboard

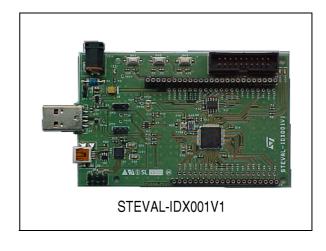
Data brief

Features

- Extendible general purpose evaluation board based on the STM32F103RET6 micro
- Multiple power supply options
- USB and mini-USB connectors
- 20-pin and 25-pin connectors exporting the STM32F GPIOs
- SiLabs CP2102 USB-RS232 bridge
- Voltage battery measurement circuitry
- Configurable LEDs and pushbuttons
- Power LED
- Reset pushbutton
- STM75 temperature sensor
- JTAG connector
- Compact size: 11.9 x 6.9 cm

Description

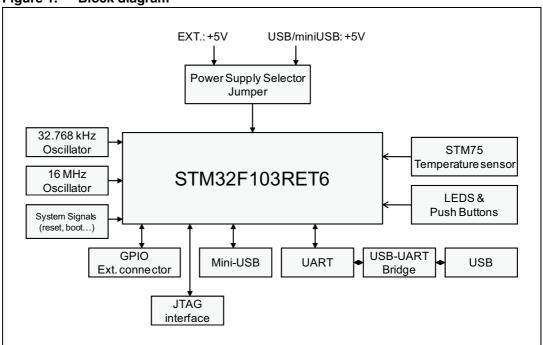
The STEVAL-IDX001V1 demonstration board is based on the STM32F103RET6 micro with 512 kB of Flash and 64 kB of RAM. It has been designed to be easily extended with daughterboards that can be piled up by means of the integrated 20-pin and 25-pin connectors. These connectors mainly export the GPIOs of the micro and other board system signals. The micro can be programmed and debugged via the JTAG and the USB connectors that are also integrated. The STEVAL-IDX001V1 demonstration board allows different power supply options. Configurable LEDs and pushbuttons are integrated to allow user interaction at the run time. Onboard jumpers allow the configuration of the micro boot mode, the power source and the USB interface for connection with a PC. In particular, the use of the USB requires the installation of the driver of the RS-232 SiLab CP2102 bridge while the use of the mini-USB requires the installation of the STM32F USB driver available from the ST website.



Block diagram STEVAL-IDX001V1

1 Block diagram

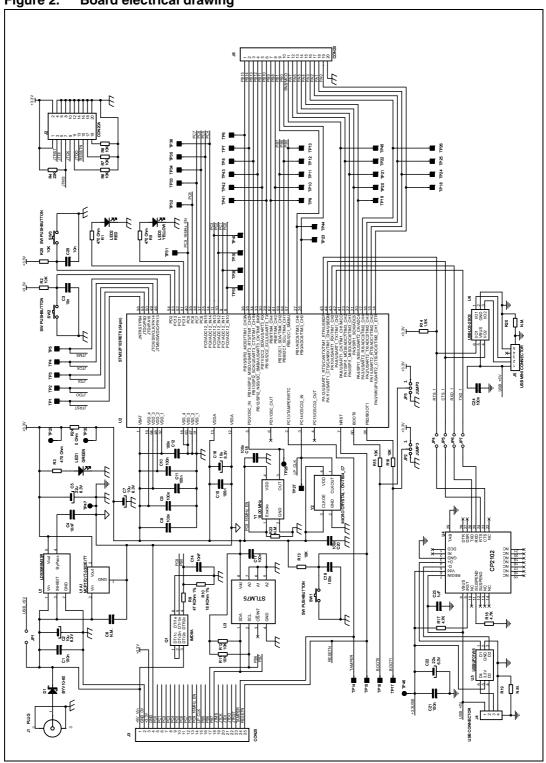
Figure 1. Block diagram



STEVAL-IDX001V1 Block diagram

1.1 Schematic

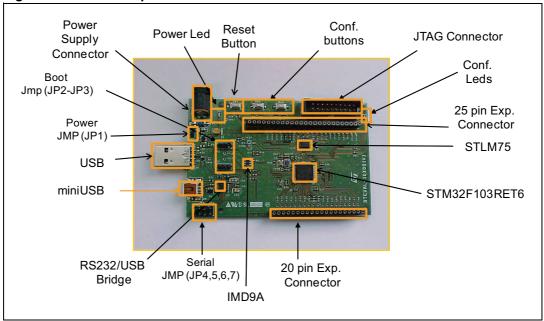
Figure 2. Board electrical drawing



Block diagram STEVAL-IDX001V1

1.2 Main components

Figure 3. Main components



STEVAL-IDX001V1 Revision history

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
27-Apr-2012	1	Initial release.

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