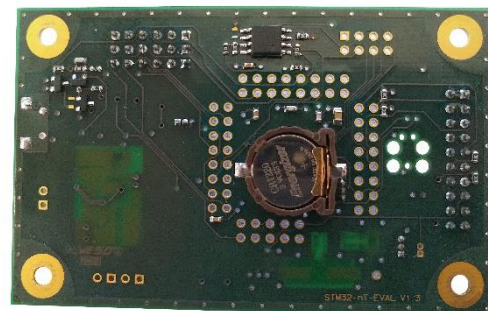STM32F103 - 64LQFP

Features

- STM32F103 controller in 64LQFP package.
    - ARM Cortex-M3
    - 32-Bit, 72MHz, 1MB (1M x 8) FLASH
    - Manufacturer Part Number: STM32F103RGT7
- Two configurable LED's on port B8 and B9.
- Two configurable buttons on port C4 and C5.
- One reset button.
- One power-LED.
- CR1220 batterie for RTC.
- 32.768 kHz crystal for RTC.
- 8 MHz crystal for CPU clock.
- Configurable boot pins.
- Power supply over USB or separate Input.
    - V_{IN} on separate Input is 5-40 VDC.
    - I_{IN} is ca. 200 mA @ 5.0 VDC.
- V_{CPU} is 3.3 VDC.
    - Separate power outlet for V_{CPU}
- Separate 8-pin connector with I_2C, SPI and V_{CPU}
- Three 6-pin UART connectors (UART1 to UART3)
- USB2 connection
- Flash memory with 64Mb (8M x 8), 133MHz on SPI
    - Manufacturer Part Number: IS25LP064A-JBLE
- Two different debug connections available
    - JTAG with 20 pins (reset configurable)
    - Tag-Connect TC2030 with 6 pins
- Free software libraries and examples available with the STM32Cube MCU Package.
- On board GND connection for measurement purposes.

Versioning

PV 1.3.0   *latest version*
           CPU changed to STM32F103

PV 1.2.2   *minor design changes*
PV 1.2.1   *SPI-memory changed*
PV 1.2.0   *RTC and SPI-memory added*
PV 1.1.0   *markings on the PCB changed*
PV 1.0.0   *first release*

Description

The STM32-nT-EVAL-board provides a flexible and affordable way to build prototypes, based on a Cortex M3 CPU. There are all the CPU's connections routed to connectors. With the size of a credit card (85.6 x 54 mm), this board is versatile and probably the best choice for your newest engineering ideas.

This board can be bought exclusively at nanoTRONIC GmbH in Switzerland. Customized functions and designs can be produced and tested for you. Please contact us over www.nanotronic.ch