F103CB

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Olavi Kamppari edited this page on Jun 19, 2016 · 5 revisions

Medium Density, 128/20 Board, 48 pin MCU - CB

- 128 kB Flash memory
- 20 kB SRAM
- 48 pin, the pin functions are shown here
- **STM32F103CBT6**

BTE14-07

This Baite board is a clone of the original Maple Mini board. This is available in AliExpress at http://www.aliexpress.com/item/leaflabs-Leaf-maple-mini-ARM-STM32-compatibility/32214664071.html

Price

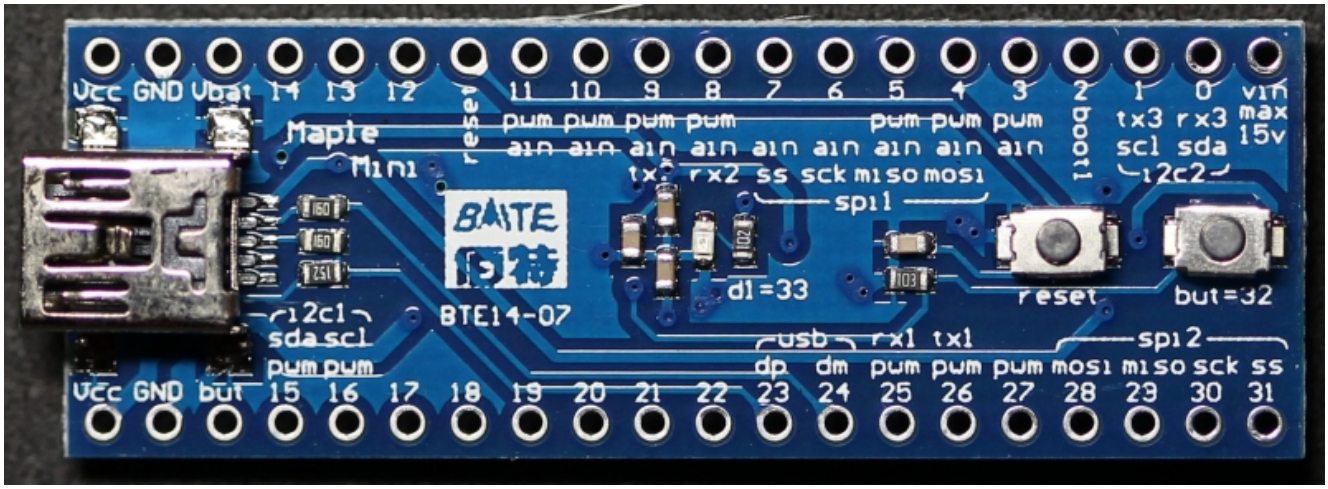
$4.00 including shipment cost.

Device ID

ST_Link Utility shows:

- SWD Frequency = 4,0 MHz.
- Connection mode : Normal.
- Debug in Low Power mode enabled.
- Device ID:0x410

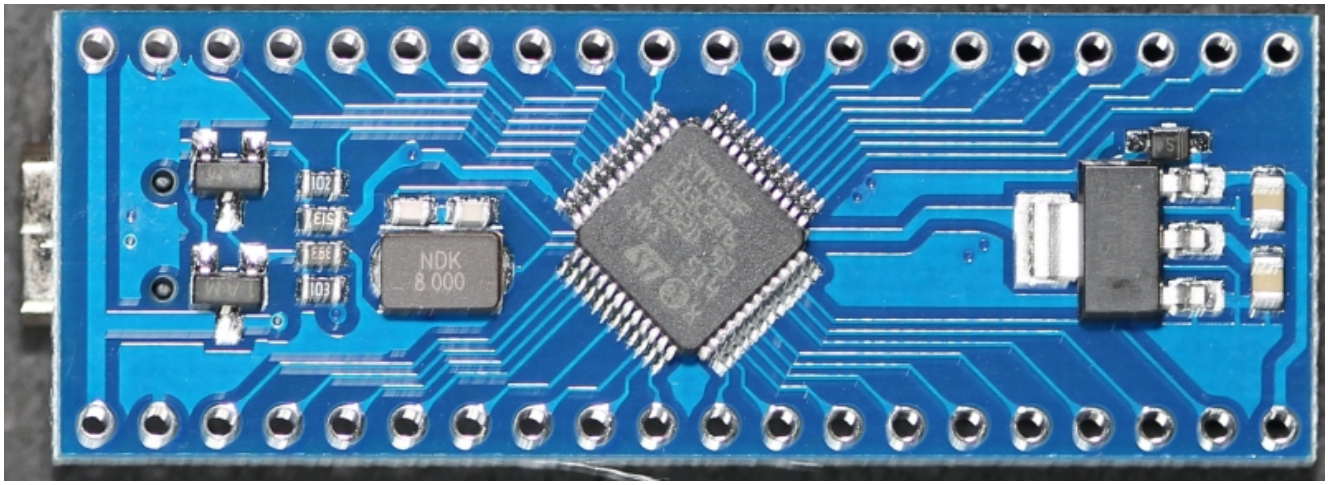
Front



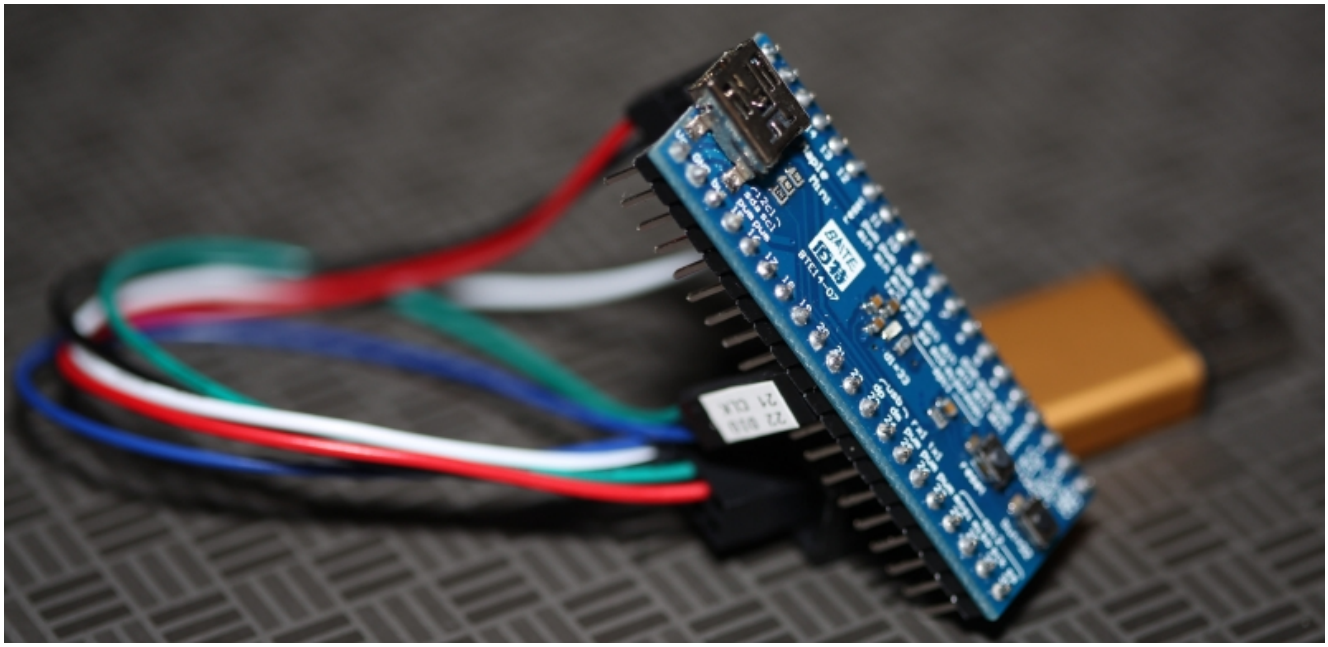
The labels on this board are for development with Maple Mini IDE. That tool is not anymore supported, but a compatible development can be done with Arduino IDE. The mapping to standard STM32F103 pin names is shown in https://github.com/OliviliK/STM32F103/blob/master/Hardware/CSV/STM32F103_Med48.csv. For example the I2C2 SCL is in GPIO bit 10, which has the pin number 1 on this board.

The SWD pins in GPIOA bits 13 and 14 are not labeled for SWDIO and SWCLK. They are in pins 21 and 22.

Back



ST-Link



Comments

Small Size with High Performance

When size (0.26in x 0.73in x 2.10in, without headers) or weight (4g) is a critical factor, this is a good solution. There are no jumpers for the Boot0 and Boot1 signals. In addition of reset button, there is a user button (PB8). There is no power LED. The blue user LED is connected to PB1.

High Quality

This is more expensive than the Blue Pill, but seem to have higher manufacturing quality. As an example of improved quality is the 8 MHz SMD crystal from NDK.

Connectivity

There are no pins for quick connections. The SWD pins are not available in a JTAG connector or special header. The connection to pins 21 (SWCLK) and 22 (SWDIO) requires external connection support or addition of a 2-pin header in the I/O row.

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https://github.com/OliviliK/STM32F103.wiki.git