Features

- 20-pin JTAG/SWD port and/or 4-pin USART1 interface for programming/testing
- External crystal can be connected via on board socket for system clock
- Onboard 32.768K crystal oscillator
- Two LED indicators for testing, which are connected to the I/O pins via jumpers
- All the MCU pins are accessible on expansion connectors
 - pin header pitch: 2.54mm(100mil)

Supported Devices

STM32 microcontroller in QFP48(0.5mm pitch) package with compatible pinouts:

- STM32F10xC series (STM32F103CB, STM32F103C8, etc.)
- STM32L15xC series (STM32L151C6, STM32L152CB, etc.)

Outline and Dimensions

Unit: mm



Photos



1. JTAG/SWD port

- for programming/debugging/testing
- compatible with ST-LINK / J-LINK / ULINK2 / STX-RLINK

2. USART1 port

• supports ISP and/or serial port debugging

3. LED indicators

for quick testing

4. Pin headers connected to MCU pins

- clearly labeled with onboard marks
- easy for testing and further expansion

5. Boot mode configuration

• configuring the BOOT0 and BOOT1 via jumpers

6. 5V power input

- DC jack or 2-pin header
- 7. External crystal socket
 - insert crystal to the holes on two sides, leave alone the middle hole

8. Power indicator

9. LED jumpers

- short the jumpers to connect LEDs to MCU I/O pins for testing
- open the jumpers to disconnect

10. 32.768K crystal (on bottom side)

- for internal RTC with calibration
- 11. 3.3V onboard regulator (on bottom side)
 - AMS1117-3.3