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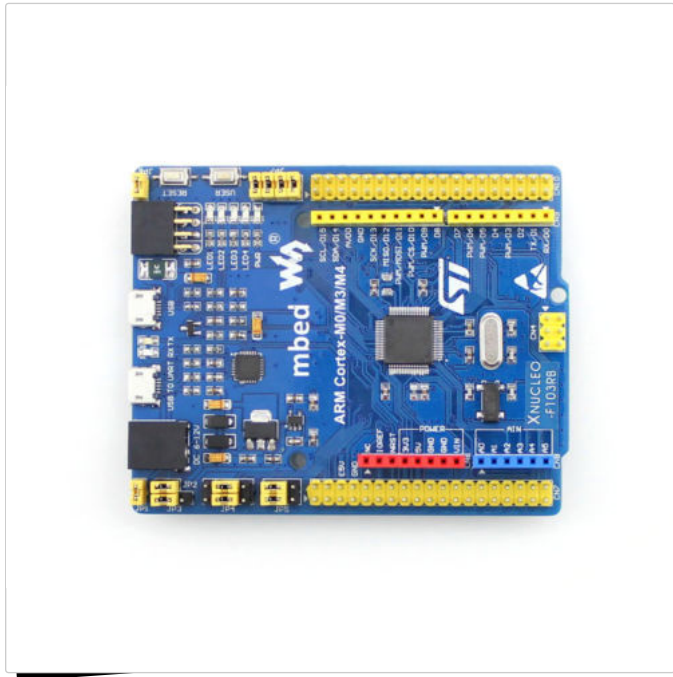
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XNUCLEO-F103RB STM32F103RB Cortex-M3 STM32 Development Board

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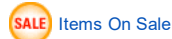
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**This auction is for XNUCLEO-F103RB Package A**

XNUCLEO-F103RB Development Kit, Comes with IO Expansion Shield and Various Sensors

**Overview**

This development kit includes :

- **XNUCLEO-F103RB** (STM32 Development Board, Supports Arduino, Compatible with NUCLEO-F103RB)
- **IO Expansion Shield** (Provides interfaces for connecting XBee, WiFi-LPT100, and sensors)
- **Sensors Pack** (Gas, Color, Flame, Hall, IR, UV, Laser, Sound, Temperature and Humidity, Tilt, Liquid level, etc.)

**XNUCLEO-F103RB Features**

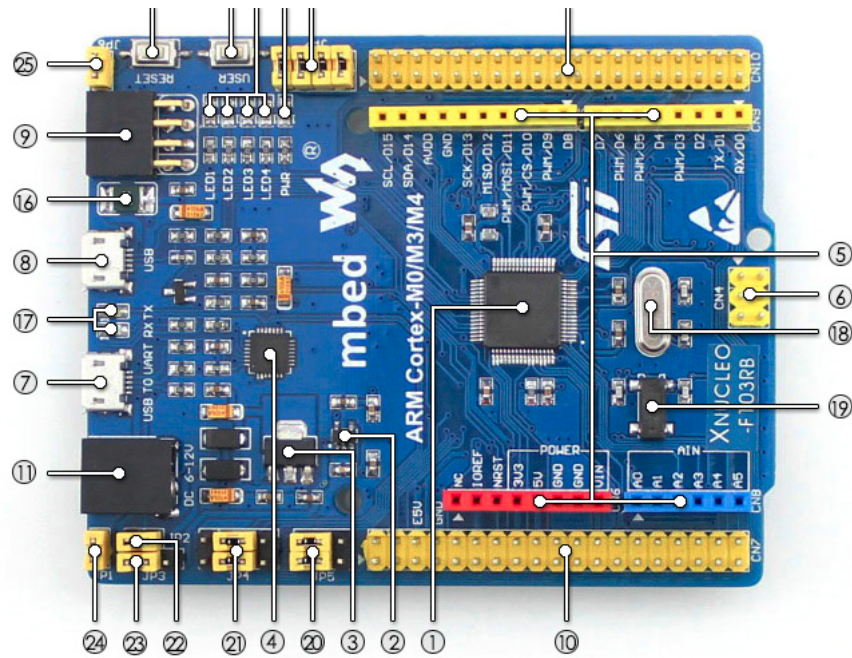
- Compatible with NUCLEO-F103RB, onboard Cortex-M3 microcontroller STM32F103RBT6
- Arduino connectivity support, easy to connect with various Arduino shields and access the massive Arduino resources
- ST Morpho headers provide full access to all STM32 I/Os, easy for peripheral expansion
- Supports mbed, build prototype quickly by mbed SDK and online tools
- Comprehensive free software HAL library including a variety of software examples
- Comes with a separated ST-LINK/V2 module

**Advantages**

Compare	XNUCLEO	NUCLEO	Remarks
Arduino compatibility	UNO, Leonardo	UNO	XNUCLEO can be configured by jumper to compatible with UNO (default) or Leonardo
Arduino ICSP interface	Yes	None	ICSP is required by certain kinds of shields
USB connectivity	Yes	None	The USB connector of NUCLEO is for debugging ONLY, not available for USB connection
USB connector	Micro USB	Mini USB	Micro USB is the advanced USB standard
Morpho headers mark	Most	None	Now you can check the PCB mark instead of datasheet
Common interfaces are connected via	Jumpers	0Ω resistors	Jumpers are much easier to use, need no soldering
UART debugging	Available while in-circuit debugging	Not available while in-circuit debugging	The NUCLEO integrated ST-LINK/V2 functional chip can be simulated as serial port, how available while in-circuit debugging, whereas XNUCLEO features a stand-alone USB TO
8MHz crystal	Yes	None	Timer is more accurate when using external 8MHz crystal
32.768KHz crystal	Yes	None	Required for RTC
USB fuse	Yes (500mA)	None	The computer USB interface might be harmed without fuse
LEDs	4	1	The more LEDs, the easier to monitor program running status
UART indicator	Yes	None	Data communication is visible now
DC input	Yes	None	A convenience
Button position	Close to PCB edge	Close to Arduino connector	The button won't be untouchable when connecting with an Arduino shield if it were close t
ST-LINK	Separated	Integrated	ST-LINK can be used anywhere else
Comes with USB cable	Yes	None	

**What's on the XNUCLEO-F103RB**





### 1. STM32F103RBT6

- o Core : ARM@ 32-bit Cortex™-M3
- o Operating frequency : 72MHz
- o Operating voltage : 2.0V-3.6V
- o Package : LQFP64
- o Memories : 128kB Flash, 20kB SRAM
- o Interfaces : 2 x SPI, 3 x USART, 2 x I2C, 1 x CAN, 1 x USB
- o AD/DA : 2 x AD (12 bit, 16 channels)

### 2. SPX3819M5 : 3.3V voltage regulator

### 3. AMS1117-5.0 : 5.0V voltage regulator

### 4. CP2102 : USB to UART convertor

### 5. Arduino connector : for connecting Arduino shields

### 6. ICSP interface : Arduino ICSP

### 7. USB TO UART : for debugging

### 8. USB connector : USB communication interface

### 9. SWD interface : for programming and debugging

### 10. ST Morpho headers : access to VCC, GND and all the I/Os, easy for expansion

### 11. 6-12V DC input

### 12. User button

### 13. Reset button

### 14. Power indicator

### 15. User LED

### 16. 500mA fast self-recovery fuse

### 17. Serial port Rx/Tx indicator

### 18. 8MHz crystal

### 19. 32.768KHz crystal

### 20. ADC/I2C selection jumper

- o short A and B : Arduino A4, A5 is used as I2C
- o short B and C : Arduino A4, A5 is used as ADC

### 21. UART selection jumper

### 22. MCU current test jumper : for low power tests

### 23. Power selection jumper

- o short 5V and U5V : powered from USB connection
- o short 5V and E5V : powered from external power supply

### 24. USB enable jumper

- o short the jumper to enable
- o open the jumper to disable

### 25. User button jumper

- o short the jumper to connect to I/Os used in example code
- o open the jumper to connect to other custom pins via jumper wires

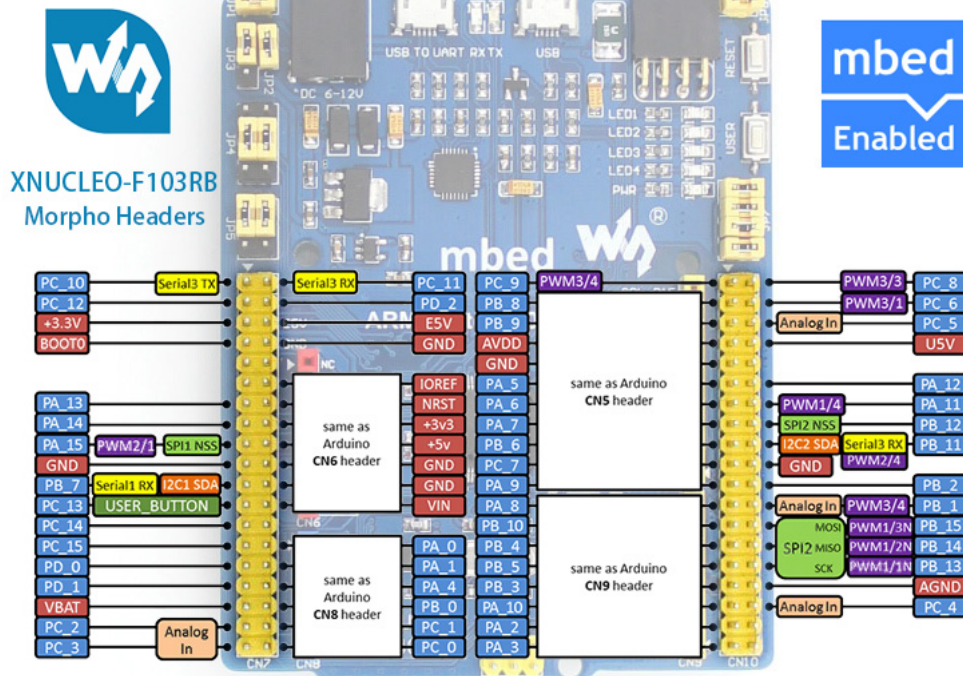
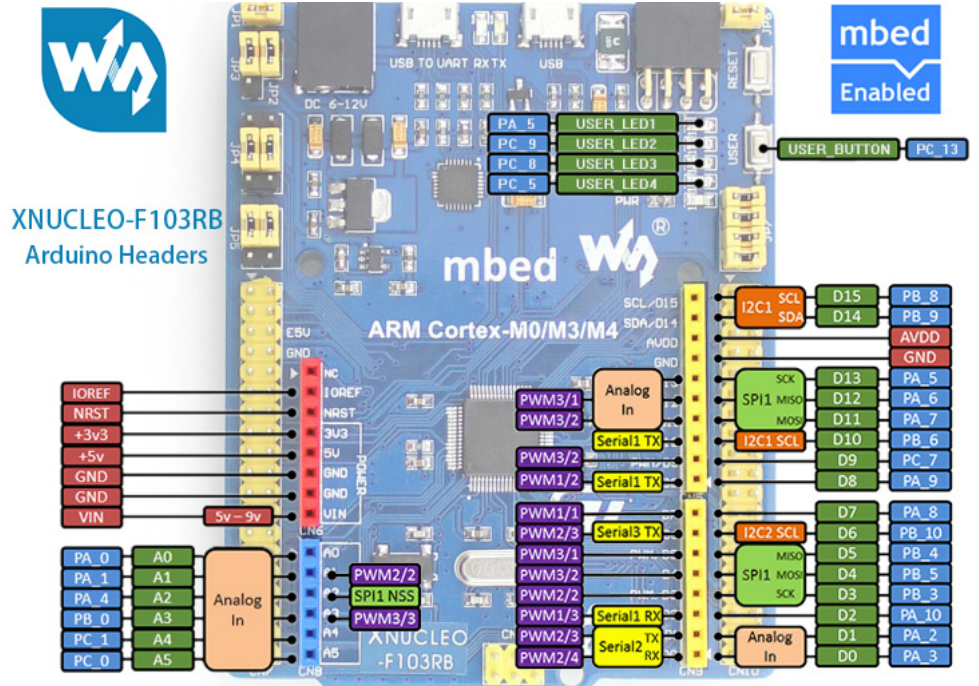
### 26. User LED jumper

- o short the jumper to connect to I/Os used in example code
- o open the jumper to connect to other custom pins via jumper wires

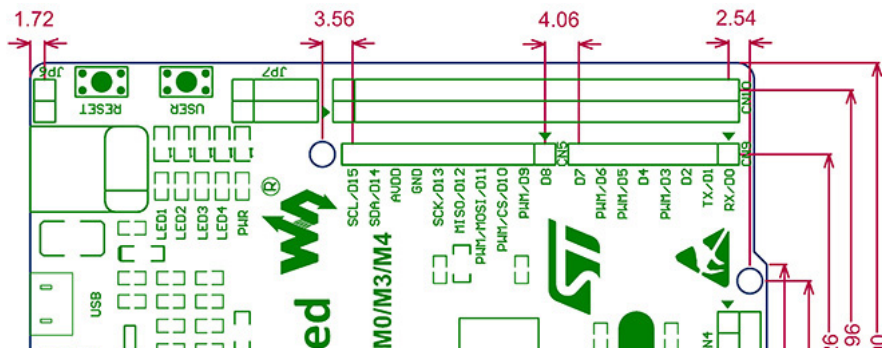
## XNUCLEO-F103RB Expansion Headers

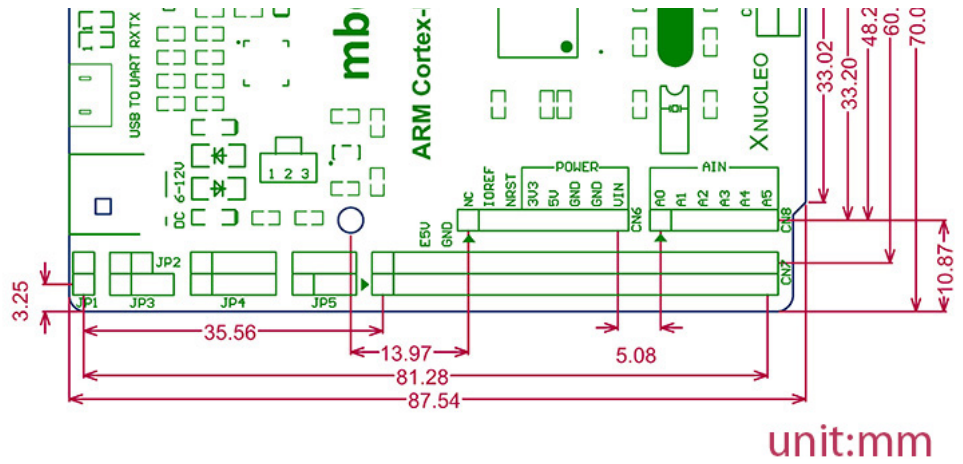






XNUCLEO-F103RB Dimension

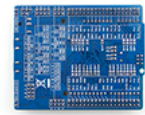
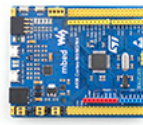




**Development Resources**

Wiki : [www.waveshare.com/wiki/XNUCLEO-F103RB](http://www.waveshare.com/wiki/XNUCLEO-F103RB)

**XNUCLEO-F103RB Photos**



XNUCLEO-F103RB STM32 development board XNUCLEO-F103RB STM32 development board XNUCLEO-F103RB STM32 development board back

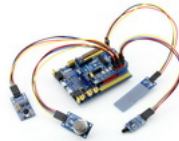


Connecting with ST-LINK/V2 (mini)

**IO Expansion Shield & Sensors**



IO Expansion Shield



Connecting with sensors

**Package Contains**

1. XNUCLEO-F103RB x 1
2. ST-LINK/V2 (mini) x 1
3. USB Type A Plug to Micro B Plug Cable x 1
4. USB Type A Plug to Receptacle Cable x 1
5. IO Expansion Shield x 1
6. [Sensors Pack](#) x 1



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