# PYBv3

**MicroPyhton pyborad user made**

**micropyhton.org**

made by lameira.org

MICRO SD SLOT  USB MICRO-AB
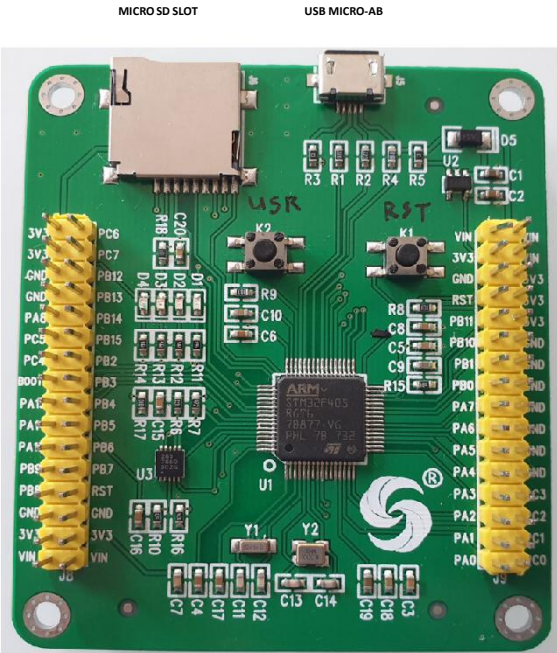
V+: 3.6v - 16v power input (supplied by USB when USB connected)

3V3: regulated 3.3v output only, max 250mA

connect BOOT to 3V3 and press rst to enter DFU mode

PB6/PB7 are in I2C mode when accelerometer is in use

PB3 is pulled to GND via 4.7k resistor when USR pressed

PB4-PA15-PA14-PA13 are connected to the 4 LEDs

SD_SW = PA8 is used for SD card switch

MMA_INT = PB2 is used for accelerometer interrupts

MMA_AVDD = B5 is used for accelerometer power



| PERIPH. | AVAILABLE TIMERS | | | PIN | PIN | AVAILABEL TIMERS | | | | PERIPHERALS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3V3 | PC6 | TIM 8 CH1 | | | | TX UART (6) |
| | | | | 3V3 | PC7 | TIM 8 CH2 | | | | RX |
| | | | | GND | PB12 | | | | | RX CAN (2) |
| | | | | GND | PB13 | TIM 1 CH1N | | | SPI (2) | TX |
| | | | | PA8 | PB14 | TIM 1 CH2N | TIM 8 CH2N | TIM 12 CH1 | /SS | |
| ADC | | | | PC5 | PB15 | TIM 1 CH3N | TIM 8 CH3N | TIM 12 CH2 | SCK | |
| | | | | PC4 | PB2 | | | | MISO | |
| | | | | BOOT | PB3 | | | | MOSI | |
| | | | | PA13 | PB4 | | | | | |
| | | | | PA14 | PB5 | | | | (usr) | |
| | | | | PA15 | PB6 | TIM 4 CH1 | | | SCL I2C (2) | |
| TX CAN (1) | TIM 11 CH1 | TIM 4 CH4 | | PB9 | PB7 | TIM 4 CH2 | | | SDA | TX UART (1) |
| RX | TIM 10 CH1 | TIM 4 CH3 | | PB8 | RST | | | | | RX |
| | | | | GND | GND | | | | | |
| | | | | 3V3 | 3V3 | | | | | |
| | | | | Vin | Vin | | | | | |

| PERIPHERALS | | AVAILABLE TIMERS | | | PIN | PIN | PERIPH. |
|---|---|---|---|---|---|---|---|
| | | | | | Vin | Vin | |
| | | | | | 3V3 | Vin | |
| | | | | | GND | 3V3 | |
| | | | | | RST | 3V3 | |
| ADC | RX UART (3) | SDA I2C (2) | TIM 2 CH4 | | PB11 | 3V3 | |
| | TX | SCL | TIM 2 CH3 | | PB10 | GND | |
| | | | TIM 8 CH3N | TIM 1 CH3N | TIM 2 CH2N | PB1 | GND |
| | | | TIM 8 CH2N | TIM 2 CH2N | | PB0 | GND |
| ADC | | MOSI | TIM 14 CH1 | TIM 8 CH1N | TIM 1 CH1N | PA7 | GND |
| | | MISO | TIM 13 CH1 | | | PA6 | GND |
| | DAC | SCK SPI (1) | TIM 8 CH1N | TIM 2 CH1 | | PA5 | GND |
| | RX UART (4) | /SS | | | | PA4 | PC3 |
| | TX | | TIM 9 CH2 | TIM 5 CH4 | TIM 2 CH4 | PA3 | PC2 |
| | RX | | TIM 9 CH1 | TIM 5 CH3 | TIM 2 CH3 | PA2 | PC1 |
| | TX | | | TIM 5 CH2 | TIM 2 CH2 | PA1 | PC0 | shielded ADC |
| | | | | TIM 5 CH1 | TIM 2 CH1 | PA0 | |