

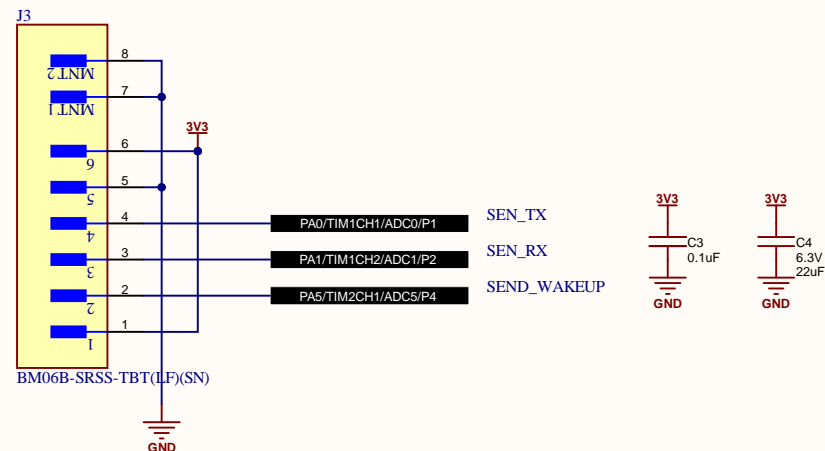
Connector: MX1.0--6P Thread:M25
Product external diameter: 28mm Inner diameter:23.5mm Height:19mm



Serial Communication

Connector: MX1.0--6P

| Pin | Name | Description | Pic |
|-----|--------------|--|-----|
| 1 | Power Supply | DC3.3V | |
| 2 | GND | Signal ground. Connected to power ground. | |
| 3 | TXD | Data output. TTL logical level | |
| 4 | RXD | Data input. TTL logical level | |
| 5 | WAKEUP | Finger Detection Signal | |
| 6 | 3.3VT | Touch induction power supply, DC3—6V | |



1

2

3

4

A

A

B

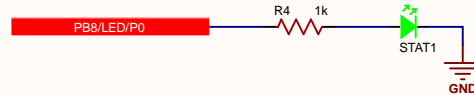
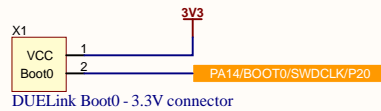
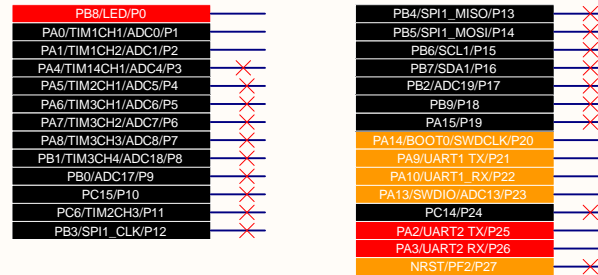
B

C

C

D

D

FID1
Fiducial 40 MilFID2
Fiducial 40 MilFID3
Fiducial 40 MilFID4
Fiducial 40 MilFID5
Fiducial 40 MilFID6
Fiducial 40 Mil

| | | |
|--------------------|-----------------|--------------|
| Title: <i>MISC</i> | | |
| Part #: N/A | | |
| Revision: B | Date: 7/14/2025 | Sheet 2 of 5 |

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Software Features:

ADC: P1, P2, P3, P4, P5, P6, P7, P8, P9, P17

Pulse feedback: Can be any pin but hardware need 100pF+ 1Mohm

HW PWM: P1, P2, P3, P4, P5, P6, P7, P8, P11

- * P1, P2: TIM1
- * P3: TIM14
- * P4, P11: TIM2
- * P5, 6, 7, 8: TIM3

SW PWM: Any pin

SW UART: Pins 1 RX, 2 TX, 3 DBG

Wakeup Pins: P1, P3

Interrupts on: P1, P2, P3, P4, P5, P6, P7, P12,

Output compare: P2 (PA1)

Input capture: TBD

Neopixel: Any pin (blocking mode)

IR reciever: P1

```
// PB8 - P0 -> LED
// PA0 - P1 -> TIM1_CH1 ADC0
// PA1 - P2 -> TIM1_CH2 ADC1
// PA4 - P3 -> TIM14_CH1 ADC4
// PA5 - P4 -> TIM2_CH1 ADC5
// PA6 - P5 -> TIM3_CH1 ADC6
// PA7 - P6 -> TIM3_CH2 ADC7
// PA8 - P7 -> TIM3_CH3 ADC8
// PB1 - P8 -> TIM3_CH4 ADC18
// PB0 - P9 -> ADC17
// PC15 - P10
// PC6 - P11
// PB3 - P12 -> SPI1_CLK
// PB4 - P13 -> SPI1_MISO
// PB5 - P14 -> SPI1_MOSI
// PB6 - P15 -> I2C1_SCL
// PB7 - P16 -> I2C1_SDA

// PB2 - P17 -> ADC19
// PB9 - P18
// PA15 - P19
// PA14 - P20 -> SWCLK BOOT0

// PA9 - P21 -> UART1_TX - Can be used when no Upstream
// PA10 - P22 -> UART1 - Can be used when no Upstream
// PA13 - P23 -> SWDIO ADC13
// PF2 - P24 -> NRST - Reserved for emergency
```

UART1 is available when not used in upstream

PA12 can be UART1_CK

Sheet order priority:

- MCU.schDoc
- Downstream.schDoc
- Upstream.schDoc
- Misc.
- project_name.schDoc





