



| TMC-UART MODE | | | | DRIVE STEPPER | | | |
|---------------|----|-----|------|---------------|----|--|--|
| TX = RX | | EN | STEP | DIR | | | |
| PD5 | X | PE4 | PE3 | PE2 | X | | |
| PD7 | Y | PE1 | PE0 | PB9 | Y | | |
| PD4 | Z | PB8 | PB5 | PB4 | Z | | |
| PD9 | E0 | PB3 | PD6 | PD3 | E0 | | |
| PD8 | E1 | PA3 | PD15 | PA1 | E1 | | |

| TMC-SPI MODE | | | | |
|--------------|-------|-------|--------|--------|
| MOSI | SCLK | CS | MISO | |
| PD14 | PD0 | PD5 | PD1 | X |
| | | PD7 | | Y |
| | | PD4 | | Z |
| | | PD9 | | E0 |
| | | PD8 | | E1 |
| XDIAG | YDIAG | ZDIAG | E0DIAG | E1DIAG |
| X | Y | Z- | Z+ | E1- |
| PD15 | PD2 | PC8 | PC4 | PE7 |

| | | | |
|---------|------|-----|----|
| X | PA15 | GND | 5V |
| Y | PD2 | GND | 5V |
| Z- | PC8 | GND | 5V |
| Z+ | PC4 | GND | 5V |
| PW_DET | PA13 | GND | 5V |
| MT_DET1 | PA4 | GND | 5V |
| MT_DET2 | PE6 | GND | 5V |
| PW_OFF | PB2 | GND | 5V |

| | | |
|---------|------|-------|
| EXP1 | PC5 | PE13 |
| | PD13 | PC6 |
| | PE14 | PE15 |
| | PD11 | PD10 |
| | GND | 5V |
| EXP2 | PA6 | PA5 |
| | PE8 | PE10 |
| | PE11 | PA7 |
| | PE12 | RESET |
| | GND | 3V3 |
| BLTOUCH | PA8 | |
| | 5V | |
| | GND | |

| USB | | USB DISK | | TF CARD | | WIFI | | | | |
|-----|------|----------|------|---------|------|----------|----------|-----|-----|-----|
| D+ | PA12 | DM | PB14 | CS | PC9 | GND | 3V3 | TH2 | TH1 | TB |
| D- | PA11 | DP | PB15 | SCK | PC10 | CS-PC15 | MOSI-PC3 | PA2 | PC1 | PC0 |
| | | | | MISO | PC11 | NC | MISO-PC2 | | | |
| | | | | MOSI | PC12 | I00-PC13 | SCK-PB13 | | | |
| | | | | DET | PD12 | I01-PC7 | NC | | | |
| | | | | | | NC | EN | | | |
| | | | | | | TX1-PA9 | NC | | | |
| | | | | | | RX1-PA10 | RST-PE9 | | | |

Github : <https://github.com/makerbase-mks>
FaceBook : <https://www.facebook.com/Makerbase.mks/>
Makerbase

Sheet:
File: MKS Robin Nano V3.kicad_pcb

Title: MKS Robin Nano

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