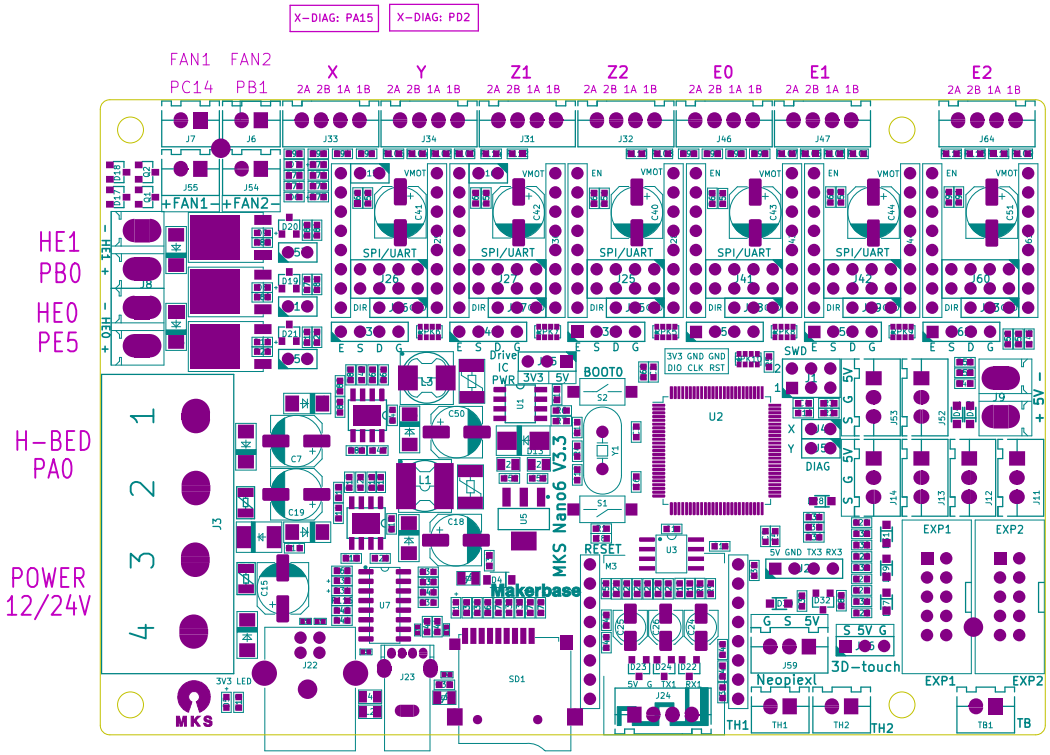


TMC-UART MODE DRIVE STEPPER

| TX = RX | | EN | STEP | DIR | |
|---|---|---|---|---|---|
| PD5 | X | PE4 | PE3 | PE2 | X |
| PD7 | Y | PE4 | PE0 | PB9 | Y |
| PD4 | Z | PB8 | PB5 | PB4 | Z |
| PD9 | E0 | PB3 | PD6 | PD3 | E0 |
| PD8 | E1 | PA3 | PD15 | PA1 | E1 |
| PA13 | E2 | PA3 | PE1 | PB2 | E2 |

TMC-SPI MODE

| MOSI | SCLK | CS | MISO | |
|---|---|---|---|---|
| PD14 | PD0 | PD5 | PD1 | X |
| | | PD7 | | Y |
| | | PD4 | | Z |
| | | PD9 | | E0 |
| | | PD8 | | E1 |
| | | PA13 | | E2 |

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

Neopixel BLTOUCH

| | |
|---|---|
| GND PE7 5V | GND 5V PA8 |

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

| USB | | USB DISK | | TF CARD | | WIFI | |
|---|---|---|---|---|---|---|---|
| TX | PB10 | DM | PB14 | CS | PC9 | GND | 3V3 |
| RX | PB11 | DP | PB15 | SCK | PC10 | CS-PC15 | MOSI-PC3 |
| | | | | MISO | PC11 | NC | MISO-PC2 |
| | | | | MOSI | PC12 | IO0-PC13 | SCK-PB13 |
| | | | | DET | PD12 | IO1-PC7 | NC |
| | | | | | | NC | EN |
| | | | | | | TX1-PA9 | NC |
| | | | | | | RX1-PA10 | RST-PE9 |

| TH1 | TH2 | TB |
|---|---|---|
| PC1 | PA2 | PC0 |

Github : https://github.com/makerbase-mks
FaceBooK : https://www.facebook.com/Makerbase.mks/
**Makerbase**

Sheet:
File: MKS Nano6.kicad_pcb

**Title: MKS Nano6**

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|---|---|---|
| Size: A4 | Date: 2023-02-22 | **Rev: V3.3_002** |
| KiCad E.D.A. kicad (5.1.10)-1 | | Id: 1/1 |