



TMC-SPI MODE			
MOSI	SCLK	CS	MISO
PE14	PE12	PE6 PE3 PB7 PB3 PD0 PD4 PD15 PD11	PE13
Driver0:X Driver1:Y Driver2:Z Driver3:E0 Driver4:E1 Driver5:E2 Driver6:E3 Driver7:E4			

TMC-UART	
TX = RX	
PE6 PE3 PB7 PB3 PD0 PD4 PD15 PD11	

DRIVE STEPPER		
EN	STEP	DIR
PC15 PC15 PE2 PB6 PD7 PD3 PC8 PD14	PC14 PE5 PE1 PB5 PD6 PD2 PC7 PD13	PC13 PE4 PE0 PB4 PD5 PD1 PC6 PD12
Driver0:X Driver1:Y Driver2:Z Driver3:E0 Driver4:E1 Driver5:E2 Driver6:E3 Driver7:E4		

Driver0:X	Driver1:Y	Driver2:Z1	Driver2:Z2	Driver3:E0	Driver4:E1	Driver5:E2	Driver6:E3	Driver7:E4
1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B	1B 1A 2A 2B

TMC UART Jumpers set



TMC SPI Jumpers set



STEP/DIR Jumpers set



Diag 0 1 2 3 4 5 6 7  
Connect X- Y- Z- X+ Y+ Z+ NC NC

I2C\_SCL-CAN\_RX PB8  
I2C\_SDA-CAN\_TX PB9

EXP1

Endstop PWR X- PA14 GND 5V  
3D TOUCH PA8 X+ PA13 GND 5V

PB2 PE10  
PE11 PD10  
PD9 PD8  
PE15 PE7  
GND 5V

TB PC0 Y- PA15 GND 5V  
TH0 PC1 Y+ PC5 GND 5V

EXP2

PA6 PA5  
PE9 PA4  
PE8 PA7  
PB11 RESET  
GND 3V3

TH1 PC2 Z- PB13 GND 5V  
TH2 PC3 Z+ PB12 GND 5V

FAN PWR SELECT  
VIN.DC12V.DC5V  
VIN.DC12V.DC5V  
OUTPUT  
FAN PWR SELECT  
VIN.DC12V.DC5V  
FAN0 PA2  
FAN1 PA1  
FAN2 PA0

USB  
D-: PA11  
D+: PA12  
U DISK  
D-: PB14  
D+: PB15

TF CARD  
DET: PC4  
CS: PC9  
SCK: PC10  
MISO: PC11  
MOSI: PC12

CAN  
NC CAN\_H NC  
NC CAN\_L NC

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

Sheet:  
File: MKS Monster8.kicad\_pcb

Title: MKS Monster8

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