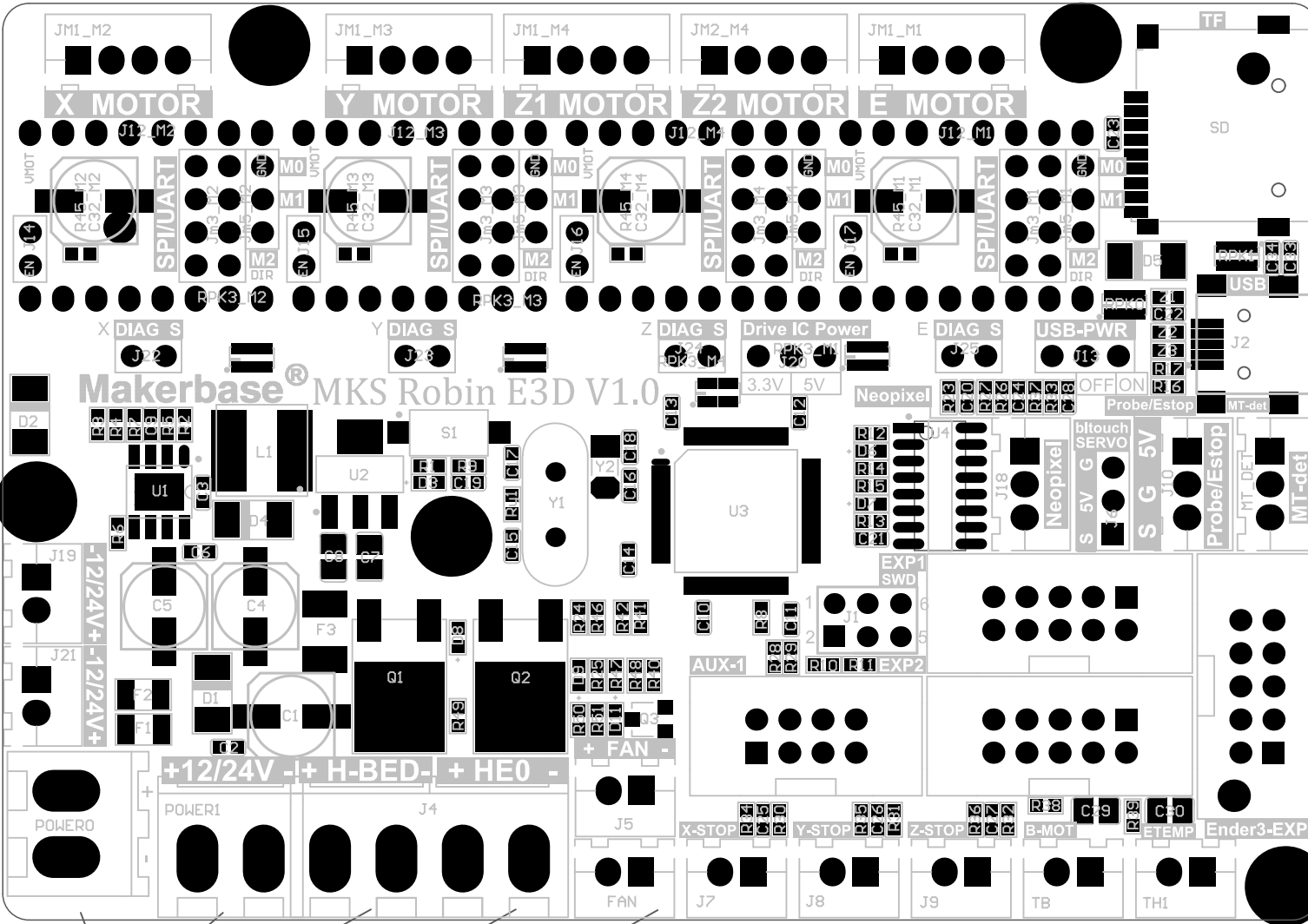


X				Y				Z1/Z2				E			
2B	2A	1A	1B	2B	2A	1A	1B	2B	2A	1A	1B	2B	2A	1A	1B

TMC2130-SPI		CS	
MOSI	SCLK	PC7	MISO
PB15	PB13	PD2	PB14
		PC12	
		PC11	

	EN	STEP	DIR	
X	PC13	PC0	PB2	GND
Y	PB12	PC2	PB9	GND
Z	PB8	PB7	PB6	GND
E	PB5	PB4	PB3	GND



TF TMC2208/2209-UART

MOSI	PB15	TX = RX	
SCLK	PB13	PC7	X
CS1	PA15	PD2	Y
MISO	PB14	PC12	Z
DET	PC10	PC11	E

XDIAG	YDIAG	ZDIAG	EDIAG
XSTOP	YSTOP	ZSTOP	PROBE/ESTOP
PA12	PA11	PC6	PB1

USB(USART1)

Neopixel	Probe	SERVO	ESTOP	MT-det
Light strip				
5V	GND	5V	5V	5V
PA2	5V	GND	GND	GND
GND	PA3	PB1	PB10	PB10

5V	GND	TX	RX	Ender3-EXP1	
5V	GND	NC	NC	PC1	PC3
(USART1-PA9/PA10)				PB11	RST
AUX-1				PB0	PA6
				PA5	PA4
				GND	5V

EXP1

GND	PC4	PA6	PA4	PC1
5V	PC5	PA7	PA5	PC3

GND	PC10	PB0	PB11	PB14
NC	RST	PB15	PA15	PB13

EXP2

POWER	HOT-BED	HOT-END	FAN	XSTOP	YSTOP	ZSTOP	B-MOT	ETEMP
DC12/24V	PC8	PC9	PA8	PA12	PA11	PC6	PA1	PA0