



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-
PA15	PD2	PC8	PC4	PE7

FAN1 FAN2  
PC14 PB1

HE1  
PB0

HE0  
PE5

H-BED  
PA0

POWER  
12/24V

EXP1

X	PC5	PE13
PA15 GND 5V	PD13	PC6
Y	PE14	PE15
PD2 GND 5V	PD11	PD10
Z-	GND	5V
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		

EXP2

PA6	PA5
PE8	PE10
PE11	PA7
PE12	RESET
GND	3V3

BLTOUCH

PA8
5V
GND

USB		USB DISK		TF CARD		WIFI		TH1 TH2 TB		
D+	PA12	DM	PB14	CS	PC9	GND	3V3	TH1	TH2	TB
D-	PA11	DP	PB15	SCK	PC10	CS-PC15	MOSI-PC3	PC1	PA2	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

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