DRV / PIN table

PIN \ DRV	X	Y	Z	E0	E1	E2
ENABLE	PC11	PE3	PB7	PC12	PD4	PD0
DIRECTION	PC15	PE6	PE2	PB6	PD7	PD3
STEP	PA0	PE5	PE1	PB5	PD6	PD2
SPI_CS UART_RX	PC14	PE4	PE0	PC13	PD5	PD1
UART_TX	PA14	PA13	PB10	PD11	PB3	PB4
DIAG	PB12 (X-MIN)	PB15 (Y-MIN)	PD9 (Z-MIN)	PB13 (X-MAX)	PD8 (Y-MAX)	PD10 (Z-MAX)

EXP1

GND	PE14	PE12	PE9	PE8
+5V	PE15	PE13	PE10	PE7

PS_ON

GND	PE11

EXP2

GND	PB0	PB1	PB2	PA6 MISO
PC5	RST	PA7 MOSI	PA2	PA5 SCK

SWD

PA13 SWDIO	+3V3
PA14 SWCLK	BT0
RST	GND

ENDSTOPS

X-MIN	VSTP	GND	PB12
X-MAX	VSTP	GND	PB13
Y-MIN	VSTP	GND	PB15
Y-MAX	VSTP	GND	PD8
Z-MIN	VSTP	GND	PD9
Z-MAX	VSTP	GND	PD10

VSTP = 3.3V by default

SERVO

GND	+5V	PA15

I2C

+5V	GND	SDA	SCL
+5V	GND	SDA	SCL

PWR

GND
+3V3
GND
+5V
GND
+5VDC
GND
+12V
GND
+VIN1

THERMISTOR

T0	GND	PC4
T1	GND	PC3
T2	GND	PC2
T3	GND	PC1
TB	GND	PC0

USB

VBUS
DN
DP
GND
SHLD

EXP3

PD13	PA9 U1TX	PB8 SCL	PA4	PD14	GND	+12V
PD12	PA10 U1RX	PB9 SDA	PA3	PD15	GND	+5V

HE0

− (PC6)	+ (VIN1)

HE1

− (PC7)	+ (VIN1)

HE2

− (PC8)	+VIN1 or +12V (per JMP)

FAN0

− (PC9)	+VIN1 or +12V (per JMP)

FAN1

− (PA8)	+VIN1 or +12V (per JMP)

JMP x3

+12V
<-
+VIN1

MAIN-PWR

GND	+VIN1

HB-PWR

GND	+VIN2

HB-OUT

− (PA1)	+ (VIN2)

STEPPER MOTOR PINOUT

1B	1A	2A	2B

STEPPER DRIVER SOCKET PINOUT

LEFT			RIGHT
TRADITIONAL	SPI	UART	
ENABLE	ENABLE	ENABLE	VMOT
MS1	SPI-MOSI		GND
MS2	SPI-SCK		2B
MS3	SPI-CS	UART RX & TX (1K)	2A
RESET	SPI-MISO		1A
SLEEP			1B
STEP	STEP	STEP	VIO
DIRECTION	DIRECTION	DIRECTION	GND

DIAG PINOUT

DIAG

STEPPER DRIVER JUMPERS

SLP	MS3	MS2	MS1
SLP	+3V3	+3V3	+3V3
RST	MS3	MS2	MS1
SPI-MISO	SPI-CS UART	SPI-SCK	SPI-MOSI

Board silkscreen labels: EXP1, PS_ON, EXP2, LED1, ENDSTOPS, SRV, I2C, THERMISTORS, X-, X+, Y-, Y+, Z-, Z+, BOOT, RESET, USB, USB PWR, EXP3, HE0, HE1, HE2, FAN0, FAN1, HB, F2, F1, MAIN-PWR, HB-PWR, HB-OUT, X SPI, Y SPI, Z SPI, E0 SPI, E1 SPI, E2 SPI