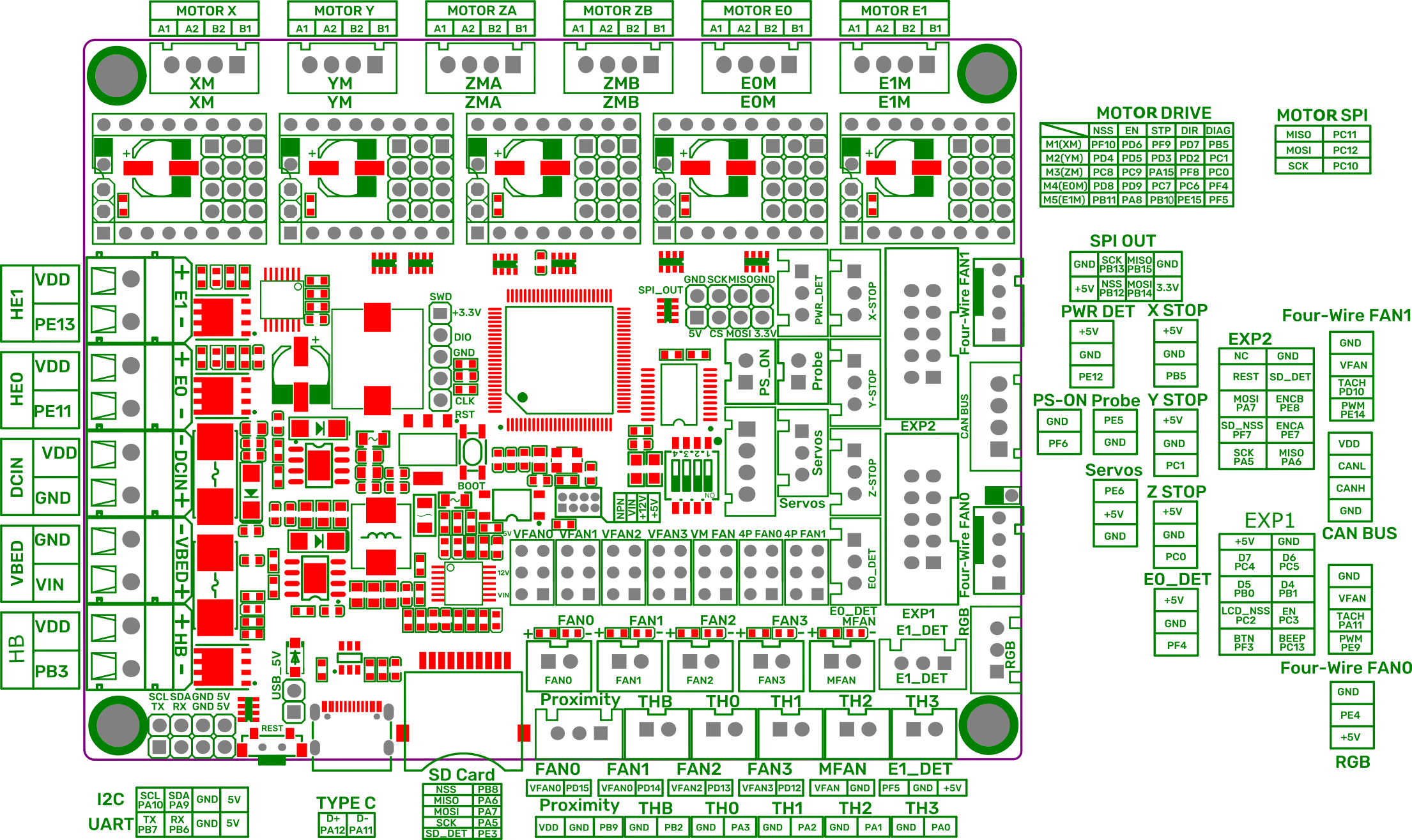
MOTOR X
A1 A2 B2 B1
MOTOR Y
A1 A2 B2 B1
MOTOR ZA
A1 A2 B2 B1
MOTOR ZB
A1 A2 B2 B1
MOTOR E0
A1 A2 B2 B1
MOTOR E1
A1 A2 B2 B1
XM
YM
ZMA
ZMB
E0M
E1M
HE1 VDD PE13
HE0 VDD PE11
DCIN VDD GND
VBED GND VIN
HB VDD PB3
E1 -
E0 -
DCIN +
VBED +
HB -
SWD
+3.3V
DIO
GND
CLK
RST
BOOT
SPI_OUT
GND SCK MISO GND
5V CS MOSI 3.3V
PWR_DET
X-STOP
PS_ON
Probe
Y-STOP
Servos
Z-STOP
E0_DET
Four-Wire FAN1
CAN BUS
EXP2
Four-Wire FAN0
NPN VIN +12V +5V
VFAN0 VFAN1 VFAN2 VFAN3 VM FAN 4P FAN0 4P FAN1
FAN0 FAN1 FAN2 FAN3 MFAN
E0_DET
EXP1
E1_DET
RGB
Proximity THB TH0 TH1 TH2 TH3
USB_5V
SCL SDA GND 5V
TX RX GND 5V
REST
SD Card
NSS PB8
MISO PA6
MOSI PA7
SCK PA5
SD_DET PE3
I2C
SCL PA10 SDA PA9 GND 5V
UART
TX PB7 RX PB6 GND 5V
TYPE C
D+ PA12 D- PA11
FAN0 VFAN0 PD15
FAN1 VFAN0 PD14
FAN2 VFAN2 PD13
FAN3 VFAN3 PD12
MFAN VFAN GND
E1_DET PF5 GND +5V
Proximity VDD GND PB9
THB GND PB2
TH0 GND PA3
TH1 GND PA2
TH2 GND PA1
TH3 GND PA0
MOTOR DRIVE
NSS EN STP DIR DIAG
M1(XM) PF10 PD6 PF9 PD7 PB5
M2(YM) PD4 PD5 PD3 PD2 PC1
M3(ZM) PC8 PC9 PA15 PF8 PC0
M4(E0M) PD8 PD9 PC7 PC6 PF4
M5(E1M) PB11 PA8 PB10 PE15 PF5
MOTOR SPI
MISO PC11
MOSI PC12
SCK PC10
SPI OUT
GND SCK PB13 MISO PB15 GND
+5V NSS PB12 MOSI PB14 3.3V
PWR DET
+5V
GND
PE12
X STOP
+5V
GND
PB5
PS-ON Probe
GND PF6
PE5 GND
Y STOP
+5V
GND
PC1
Servos
PE6
+5V
GND
Z STOP
+5V
GND
PC0
E0_DET
+5V
GND
PF4
EXP2
NC GND
REST SD_DET
MOSI PA7 ENCB PE8
SD_NSS PF7 ENCA PE7
SCK PA5 MISO PA6
Four-Wire FAN1
GND
VFAN
TACH PD10
PWM PE14
CAN BUS
VDD
CANL
CANH
GND
EXP1
+5V GND
D7 PC4 D6 PC5
D5 PB0 D4 PB1
LCD_NSS PC2 EN PC3
BTN PF3 BEEP PC13
Four-Wire FAN0
GND
VFAN
TACH PA11
PWM PE9
RGB
GND
PE4
+5V