

GND
10
GND
7
GND
9
GND
8
12-24v
GND

E0

(10) PB4 * Pin 23 * PWM10

E1

(7) PH4 * Pin 16 * PWM7

FAN

(9) PH6 * Pin 18 * PWM9

Heated Bed

(8) PH5 * Pin 17 * PWM8

Power

XS3 Connector

65	GND	5V
66	GND	5V

(65) PK3 * Pin 86 * A11

(66) PK4 * Pin 85 * A12

Servos Connector

11	GND	5V
12	GND	5V

(11) PB5 * Pin 24 * PWM11

(12) PB6 * Pin 25 * PWM12

ICSP

5V	51	GND
50	52	RST

(51) PB2 * Pin 21 * SPI_MOSI

(50) PB3 * Pin 22 * SPI_MISO

(52) PB1 * Pin 20 * SPI_SCK

XS6/AUX - Connector

5V	GND	NC	20
50	51	52	21

(20) PD1 * Pin 44 * I2C_SDA

(50) PB3 * Pin 22 * SPI_MISO

(51) PB2 * Pin 21 * SPI_MOSI

(52) PB1 * Pin 20 * SPI_SCK

(21) PD0 * Pin 43 * I2C_SCL

Temperature

GND	69	GND	68	GND	67
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(69) PK7 * Pin 82 * A15

(68) PK6 * Pin 83 * A14

(67) PK5 * Pin 84 * A13

Limit Switches

2	GND
3	GND
15	GND
14	GND
19	GND
18	GND

X+ (2) PE4 * Pin 6 * PWM2

X - (3) PE5 * Pin 7 * PWM3

Y+ (15) PJ0 * Pin 63 * USART3_RX

Y - (14) PJ1 * Pin 64 * USART3_TX

Z+ (19) PD2 * Pin 45 * USART1_RX

Z - (18) PD3 * Pin 46 * USART1_TX

EXP1

37	35
17	16
23	25
27	29
GND	5V

(37) PC0 * Pin 53 * D37

(35) PC2 * Pin 55 * D35

(17) PH0 * Pin 12 * USART2_RX

(16) PH1 * Pin 13 * USART2_TX

(23) PA1 * Pin 77 * D23

(25) PA3 * Pin 75 * D25

(27) PA5 * Pin 73 * D27

(29) PA7 * Pin 71 * D29

EXP2

50	52
31	53
33	51
49	41
GND	NC

(50) PB3 * Pin 22 * SPI_MISO

(52) PB1 * Pin 20 * SPI_SCK

(31) PC6 * Pin 59 * D31

(53) PB0 * Pin 19 * SPI_SS

(33) PC4 * Pin 57 * D33

(51) PB2 * Pin 21 * SPI_MOSI

(49) PL0 * Pin 35 * D49

(41) PG0 * Pin 51 * D41