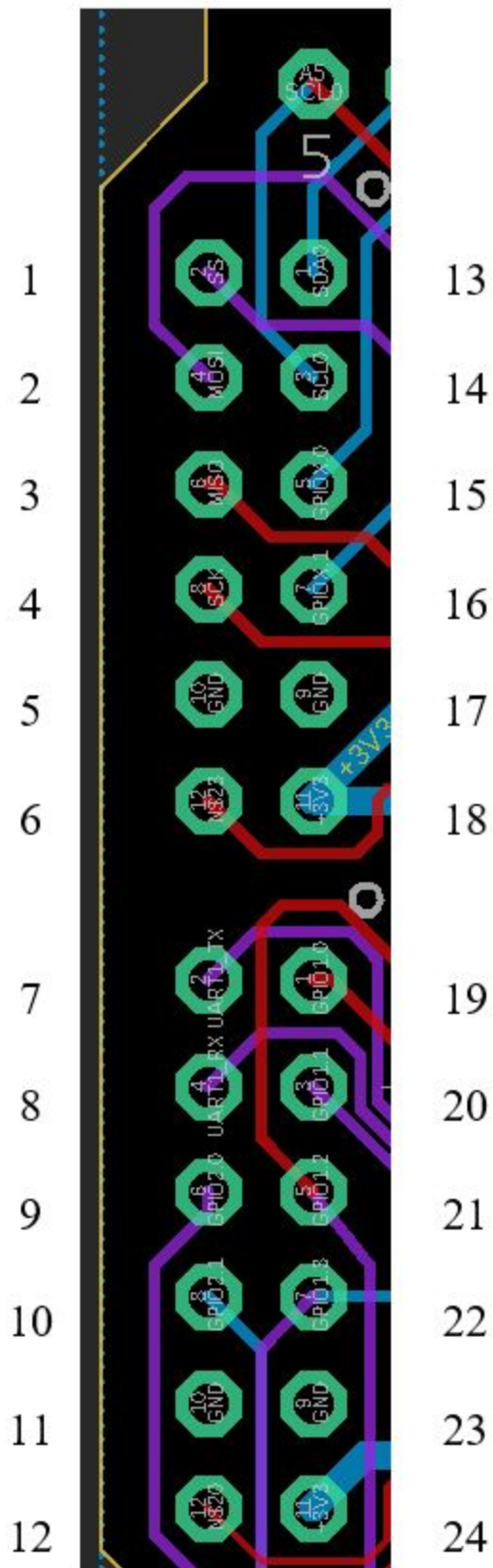


SHIELD Pin Diagram



ARDUINO Pin Diagram



Arduino Pin	Connection	Shield Pin
A0	None	Not Used
A1	None	Not Used
A2	GPIOX.0	16 - Paper Sensor
A3	GPIOX.1	15 - Paper Sensor
A4	SDA0	13 - LCD & RTC
A5	SCL0	14 - LCD & RTC
D0	SCAN_DOUT	8 - Scanner
D1	SCAN_DIN	7 - Scanner
D2	GPIO1.3	22 - LED Buttons
D3	GPIO1.2	21 - LED Buttons
D4	GPIO1.1	5 - LED Buttons
D5	GPIO1.0	19 - LED Buttons
D6	GPIO2.1	10 - Motor
D7	GPIO2.0	9 - Motor
D8	None	Not Used
D9	None	Not Used
D10	SS	1 - SD Card
D11	MOSI	2 - SD Card
D12	MISO	3 - SD Card
D13	SCK	4 - SD Card
GND		17
3.3V		24, 18
Power GND		23
Power GND		11, 5

PORTB: Correspond to Arduino UNO pins 8-13, DDRB

PORTC: Correspond to Arduino UNO, A0-A5, Analog input pins, DDRC

PORTD: Correspond to Arduino UNO pins 0-7, 0-RX, 1 -TX, DDRD

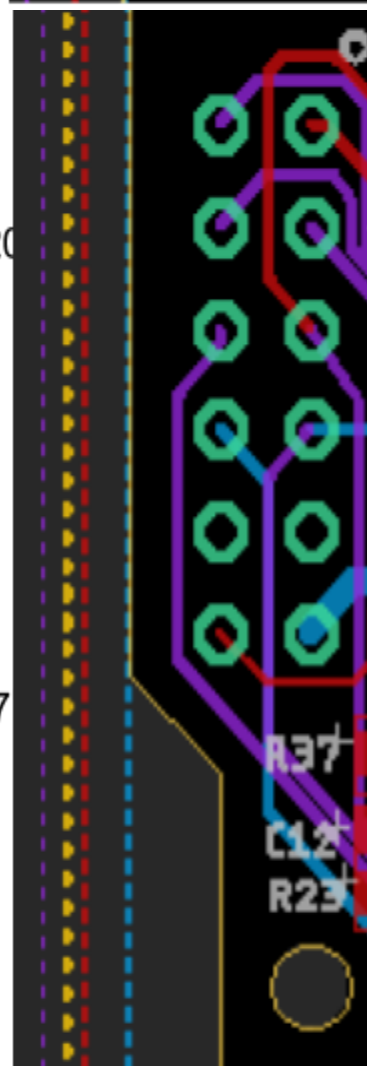
<https://www.arduino.cc/en/Reference/PortManipulation>

2 SS R7 SS
4 MOSI R5 MOSI
6 MISO R4 MISO
8 SCK R2 SCK
10 GND
12 N\$23 LED7



1 SDA0 IC1
3 SCL0 IC1
5 GPIOX.0 IC2
7 GPIOX.1 IC2
9 GND
11 +3V3

2 UART1_TX R6
4 UART1_RX R20
6 GPIO2.0 IC4
8 GPIO 2.1 IC4
10 GND
12 N\$20 R37



1 GPIO1.0- spoil btn
3 GPIO1.1 R13 T3
5 GPIO1.2 cast btn R22
7 GPIO1.3 R15 T4
9 GND
11+3V3