GND

VCC

trimpot
TRIMPOT

relay
6 VCC
5 IN4
4 IN3
3 IN2
2 IN1
1 GND
HEADER 1X6L

TRIM

AD0 AD1 AD2 AD3 GND
9 7 5 3 1
analog 1
HEADER 2x5
10 8 6 4 2
AD15 AD14 AD13 AD12 VCC

AD4 AD5 AD6 AD7 GND
9 7 5 3 1
analog 2
HEADER 2x5
10 8 6 4 2
AD11 AD10 AD9 AD8 VCC

pwm2
8
7 GND
6 13
5 12
4 11
3 10
2 9
1 8
Header 8

pwm1
8 IN4
7 IN3
6 F2
5 IN2
4 F1
3 IN1
2 TX0
1 RX0
Header 8

VIN VIN
3 2 1
vinn1
header 3x1

VIN VIN
3 2 1
vinn2
header 3x1

*
16 16 GND
15 15 VCC
14 14 8
13 13 9
12 12 10
11 11 11
10 10
9 9
8 8
7 7
6 6
5 5 12
4 4 GND
3 3 13
2 2 TRIM
1 1 VCC
LCD GND
LCD

frek n vin
1 2 3 4
HEADER 1X4L
GND VIN
F2 F1

rxtx0
1 2 3 4
HEADER 1X4L
GND
TX0 RX0 VCC

rx tx 3
1 2 3 4
HEADER 1X4L
GND
TX3 RX3 VCC

rx tx 2
1 2 3 4
HEADER 1X4L
GND
TX2 RX2 VCC

rx tx 1
1 2 3 4
HEADER 1X4L
GND
TX1 RX1 VCC

VIN
1 VIN
2 GND
3 GND
4 5V
5 3V3
6 RESET
POWER

GND GND
VCC
3.3

Analog t 1
AD0 1
AD1 2
AD2 3
AD3 4
AD4 5
AD5 6
AD6 7
AD7 8
Header 8

GN MISO SCK MOSI CS 3.3
VCC GND

card
2 4 6 8 10 12 14 16
1 3 5 7 9 11 13 15

i2c
1 2 3 4 5 6
Header 6
VCC
GND
SDA SCL

COMMS
TX 3 8 TX3 TX3
RX3 7 RX3 RX3
TX 2 6 TX2 TX2
RX2 5 RX2 RX2
TX 1 4 TX1 TX1
RX1 3 RX1 RX1
SDA 2 SDA
SCL 1 SCL

AD_H
AD8 AD8 1 AD8
AD9 AD9 2 AD9
AD10 AD10 3 AD10
AD11 AD11 4 AD11
AD12 AD12 5 AD12
AD13 AD13 6 AD13
AD14 AD14 7 AD14
AD15 AD15 8 AD15

pus
10 GND
9 37
8 35
7 33
6 31
5 29
4 27
3 25
2 23
1 VCC
Header 10

VCC
23 25 27 29
MOSI CS GND

DIGITAL
5v 5v
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 0v 0v

VCC
31 33 35 37
MISO SCK GND

Title
Size A
Number
Revision
Date: 8/28/2016
File: C:\Users\..\print data.SchDoc
Sheet of
Drawn By:
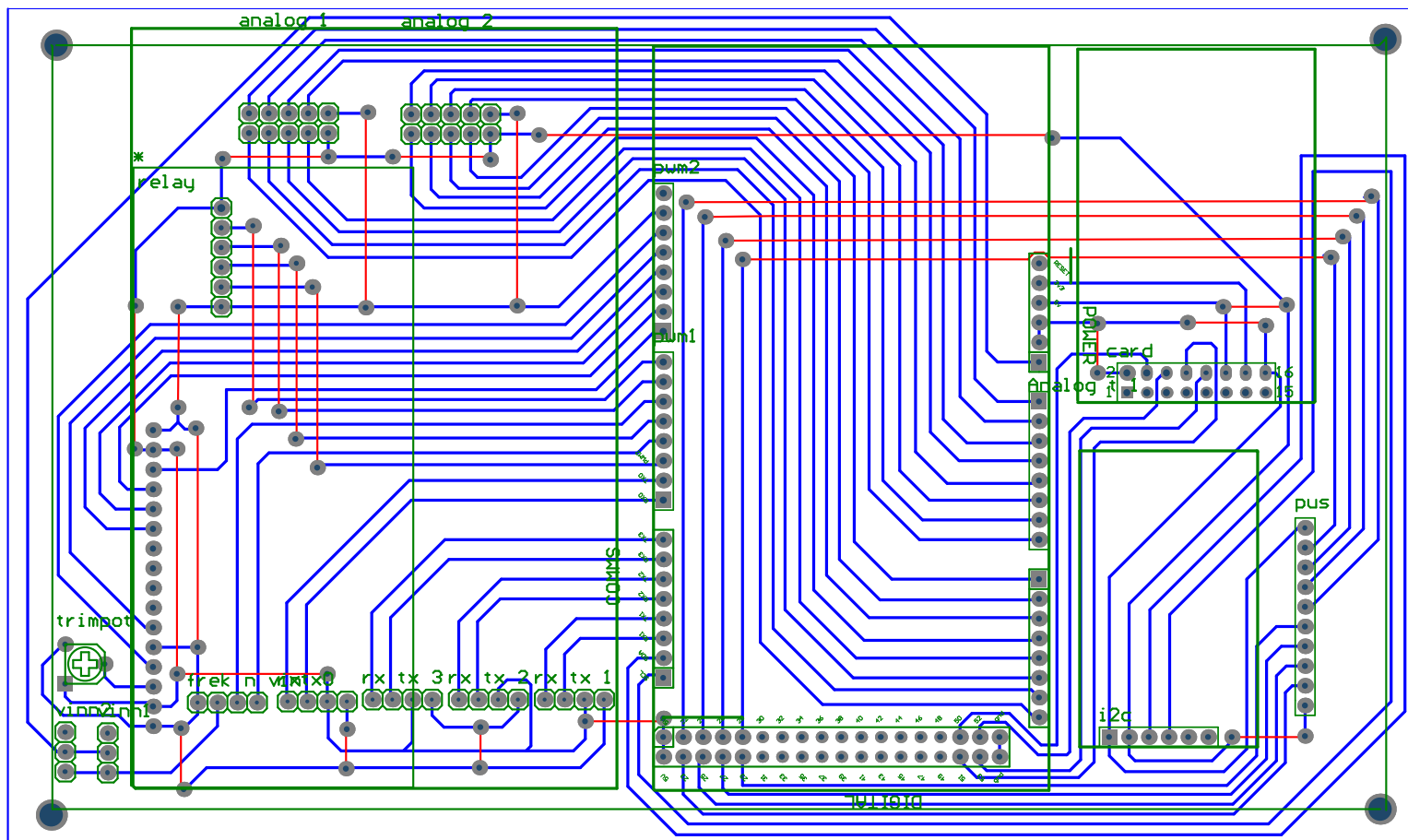
Comment	Description	Designator	Footprint	LibRef	Quantity
LCD			LCD16X2	LCD	2
AD_H		AD_H	Header 8x1 8.5mm	AD_H	2
HEADER 2x5		analog 1, analog 1, analog 2, analog 2	HEADER 2X5	HEADER 2x5	4
Header 8	Header, 8-Pin	Analog t 1, Analog t 1, pwm1, pwm1, pwm2, pwm2	HDR1X8	Header 8	6
	Header, 8-Pin, Dual row	card	HDR2X8	Header 8X2	1
Header 8X2	Header, 8-Pin, Dual row	card	HDR2X8	Header 8X2	1
Communication		COMMS	Header 8x1 8.5mm	Communication	2
IO_36		DIGITAL	HEADER 36X 8MM	IO_36	2
HEADER 1X4L		frek n vin, frek n vin, rxtx0, rxtx0, rx tx 1, rx tx 1, rx tx 2, rx tx 2, rx tx 3, rx tx 3	HEADER 1X4L	HEADER 1X4L	10
Header 6	Header, 6-Pin	i2c	HDR1X6	Header 6	2
POWER		POWER	Header 6x1 8.5mm	POWER	2
Header 10	Header, 10-Pin	pus	HDR1X10	Header 10	2
HEADER 1X6L		relay	HEADER 1X6 L	HEADER 1X6L	2
TRIMPOT		trimpot	TRIMPOT	TRIMPOT	2
header 3x1		vinn1, vinn1, vinn2, vinn	header 3x1	header 3x1	4