22-23-2021

D1

J1-1
J1-2

VIN

U1

5V

U2
LD117AS12TR

3.3V

POWER_JACKPTH_LOCK

IN   OUT
GND

IN   OUT
ADJ

R1

J2

C1   C2

C3   C4

R2

C5   C6

GND

J3

4
3
2
1

D2

R3

VIN_SENSE/2.4B

GND

R4

GND

5V

R5

A

UC-RST

C7

GND

MEGA8-AI

5V

L1

L2

C8 C9

GND

C10 C11

GND

29	PC6(/RESET)	PC0(ADC0)	23
		PC1(ADC1)	24	LED1
21	GND	PC2(ADC2)	25	LED2
20	AREF	PC3(ADC3)	26	DO_TS_IC0/3.4A
18	AVCC	PC4(ADC4/SDA)	27	CS_TS_IC0/3.4B
		PC5(ADC5/SCL)	28	SCK_TS_IC0/3.4B
7	PB6(XTAL1/TOSC1)	ADC6	19
		ADC7	22
8	PB7(XTAL2/TOSC2)	PD0(RXD)	30
3	GND	PD1(TXD)	31	R/W
5	GND	PD2(INT0)	32	EN
4	VCC	PD3(INT1)	1	RS
6	VCC	PD4(XCK/T0)	2	DB4
		PD5(T1)	9	DB5
		PD6(AIN0)	10	DB6
		PD7(AIN1)	11	DB7
		PB0(ICP)	12	DO_TS_IC1/3.4C
		PB1(OC1A)	13	CS_TS_IC1/3.4C
		PB2(SS/OC1B)	14	SCK_TS_IC1/3.4C
		PB3(MOSI/OC2)	15	UC-MOSI
		PB4(MISO)	16	UC-MISO
		PB5(SCK)	17	UC-SCK

U3

R9 VIN_SENSE/1.3C

LED1 R6

LED2

LED1 R7

LED2

R8

5V

22-23-2021

J4-1

J4-2

GND

J5

5V/1.4A	10	9	EN
GND/1.5B	8	7	RS
DB7	6	5	DB4
DB6	4	3	R/W
DB5	2	1	

5V

R10

R11

GND

J6

UC-MOSI	MOSI	1	2	+5
		3	4	GND
UC-RST	RESET	5	6	GND
UC-SCK	SCK	7	8	GND
UC-MISO	MISO	9	10	GND

AVR_SPI_PROG GND

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J7-1 T-0
J7-2 T+0
22-23-2021

J8-1 T-1
J8-2 T+1
22-23-2021

GND C12
3.3V

GND C13
3.3V

U4
GND   1
T-   2
T+   3
VCC   4
DO   7
/CS   6
SCK   5
MAX31855

T-0 2
T+0 3

DO_TS_IC0/2.4A
CS_TS_IC0/2.4A
SCK_TS_IC0/2.4A

U5
GND   1
T-   2
T+   3
VCC   4
DO   7
/CS   6
SCK   5
MAX31855

T-1 2
T+1 3

DO_TS_IC1/2.4B
CS_TS_IC1/2.4B
SCK_TS_IC1/2.4B

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