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IC2
93LC56BT-I_OT

R6 2.1K

EEDATA

1	DO	VCC	6
2	VSS	CS	5	EECS
3	DI	CLK	4	EECLK

GND

+3V3

C19 100nF

GND

R7 10K R8 10K R9 10K

EEDATA
EECLK
EECS

+3V3

R10 10K

IC3

R11 12K

GND

JP1

D_N
D_P

GND

EECS
EEDATA

SCLK
MOSI
MISO
RST
CS

14	RESET
6	REF
13	TEST
2	OSCI
7	DM
8	DP
63	EECS
61	EEDATA
48	BCBUS0
52	BCBUS1
53	BCBUS2
54	BCBUS3
55	BCBUS4
57	BCBUS5
58	BCBUS6
59	BCBUS7
38	BDBUS0
39	BDBUS1
40	BDBUS2
41	BDBUS3
43	BDBUS4
44	BDBUS5
45	BDBUS6
46	BDBUS7

VCORE-1	12	FT_VCORE
VCORE-2	37
VCORE-3	64
VCCIO-1	20
VCCIO-2	31
VCCIO-3	42
VCCIO-4	56
VPLL	9
VPHY	4
VREGIN	50
VREGOUT	49
ACBUS0	26	FIFO_RXF
ACBUS1	27	FIFO_TXE
ACBUS2	28	FIFO_RD
ACBUS3	29	FIFO_WR
ACBUS4	30	FIFO_SIWU
ACBUS5	32	FIFO_CLK
ACBUS6	33	FIFO_OE
ACBUS7	34
ADBUS0	16	D0
ADBUS1	17	D1
ADBUS2	18	D2
ADBUS3	19	D3
ADBUS4	21	D4
ADBUS5	22	D5
ADBUS6	23	D6
ADBUS7	24	D7
OSCO	3	FTDI_XT2
EECLK	62	EECLK
SUSPEND	36
PWREN	60
GND	1*8
AGND	10

FT2232HL-REEL

+3V3

C20 10uF C21 100nF C22 100nF C23 100nF

GND

+3V3

C24 10uF C25 10uF C26 100nF C27 100nF C28 100nF C29 100nF C30 100nF

GND

X1 12MHz

FTDI_XT1 FTDI_XT2

C31 22pF   C32 22pF

GND

GND

D8864-42
BMI-S-203-C
4x 39-00-0039
2x 39-01-2020
TEC2-1900(3/6)
Hammond 1590WY
4x R30-1001502
M3 6 KRSTMC Z100
M3 6 PRSTMC Z100
Lumberg 1614 16
Noctua L9i + Thermal paste
MUSBR-M5C1-M0

X2
20MHz

XT2   XT1

C33   C34
22pF   22pF

GND

+12V/4.2C
JP2
1
2
GND

+12V/4.2C
JP3
1
2
GND

+5V/1.5B

R14 10K   R60 10K   R61 10K

RST/2.2C   CS/2.2C   FIFO_WR/2.3C

+12V/4.2C
C35
100uF 25V
J3
39-29-3026
1
2
GND

+12V/4.2C
J4
39-29-3026
1
2
GND

CLK_PELT

sclk

CS/2.2C
MOSI/2.2C
MISO/2.2C
SCLK/2.2C
XT1
XT2

CLK_V1/4.3C
CLK_V2/4.3B
CLK_V2H/4.4B
CLK_FD/4.5B
CLK_SHUTTER/4.1D
sdata
RST/2.2C

IC4

20   AREF
12   PB0   FIFO_TXE/2.3C
13   PB1
14   PB2_(SS)
15   PB3_(MOSI)
16   PB4_(MISO)
17   PB5_(SCLK)
7   PB6_(XT1)
8   PB7_(XT2)

23   PC0
24   PC1
25   PC2
26   PC3
27   PC4
28   PC5
29   PC6/RESET

AVCC   18
VCC   4*2

PD0   30   FIFO_WR/2.3C
PD1   31   ADCCLK/1.4C
(INT0)_PD2 32   CDSCLK2/1.4C
(INT1)_PD3 1   CDSCLK1/1.4C
PD4   2   CLK_R/4.1C
PD5   9   CLK_HBIN/4.1A   sload
PD6   10   CLK_H1/4.1A
PD7   11   CLK_H2/4.1A

ADC6   19
ADC7   22

GND   3*3

ATMEGA328P-AU

+5V/1.5B

C2   C36
100nF 100nF

GND

GND

GND

wr
CDS1
CDS2
ADCCLK
HBIN/H1
H2
R
VOUT

CDS1
CDS2
ADCCLK
HBIN/H1
H2
R
VOUT

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