IC1 LPC2138

Left pin labels:
- P1.16/TRACEPKT0
- P1.17/TRACEPKT1
- P1.18/TRACEPKT2
- P1.19/TRACEPKT3
- P1.20/TRACESYNC
- P1.21/PIPESTAT0
- P1.22/PIPESTAT1
- P1.23/PIPESTAT2
- P1.24/TRACECLK
- P1.25/EXTIN0
- P1.26/RTCK
- P1.27/TDO
- P1.28/TDI
- P1.29/TCK
- P1.30/TMS
- P1.31/TRST

Right pin labels:
- P0.0/TXD0/PWM1
- P0.1/RXD0/PWM3/EINT0
- P0.2/SCL/CAP0.0
- P0.3/SDA/MAT0.0/EINT1
- P0.4/SCK0/CAP0.1/AIN6
- P0.5/MISO0/MAT0.1/AIN7
- P0.6/MOSI0/CAP0.2/AIN8
- P0.7/SSEL0/PWM2/EINT2
- P0.8/TXD1/PWM4/AIN9
- P0.9/RXD1/PWM6/EINT3
- P0.10/RTS1/CAP1.0/AIN10
- P0.11/CTS1/CAP1.1/SCL1
- P0.12/DSR1/MAT1.0/AIN11
- P0.13/DTR1/MAT1.1/AIN12
- P0.14/DCD1/EINT1/SDA1
- P0.15/RI1/EINT2/AIN13
- P0.16/EINT0/MAT0.2/CAP0.2
- P0.17/CAP1.2/SCK1/MAT1.2
- P0.18/CAP1.3/MISO1/MAT1.3
- P0.19/MAT1.2/MOSI1/CAP1.2
- P0.20/MAT1.3/SSEL1/EINT3
- P0.21/PWM5/AIN14/CAP1.3
- P0.22/AIN15/CAP0.0/MAT0.0
- P0.23
- P0.25/AIN4/AOUT
- P0.26/AIN5
- P0.27/AIN0/CAP0.1/MAT0.1
- P0.28/AIN1/CAP0.2/MAT0.2
- P0.29/AIN2/CAP0.3/MAT0.3
- P0.30/AIN3/EINT3/CAP0.0
- P0.31OUT

Power/other pins:
- VSS-1, VSS-2, VSS-3, VSS-4, VSS-5
- V3-1, V3-2, V3-3
- VBAT
- VREF
- V3A
- VSSA
- XTAL1 (62)
- XTAL2 (61)
- RESET (57) — RST
- RTCX1 (3)
- RTCX2 (5)

IC2 MAX563
- C1+, C1-, C2+, C2-
- V+, V-
- EN, SHDN
- T1IN, T2IN, T1OUT, T2OUT
- R1OUT, R2OUT, R1IN, R2IN
- 3,3V, GND

IC3 LD1117S33
- IN, OUT, GND

Connectors: P1 COM1 / P2 COM0 (G1, G2)

Crystals / values
- 12.000 MHz, Q1, C5 22p, C6 22p
- 32,768kHz, Q2, R18 560k, C19 22p, C20 22p

Notable components
- R29 10k, J8 ETM
- R23 10k, R24 10k, R25 10k, R26 10k
- R28 10k, R27 10k, R1 10k, R22 10k
- R2 0R
- R3 22k, R5 33k, R6 10k, R4 33k, R19 1k, R21 22k
- T1 BC850, T2 BC850
- D1 PMLL4448, D3 PMLL4448, D4 PMLL4448, PMLL4448
- D2 SM4004
- Capacitors: 100n (C1, C2, C3, C4, C11, C12, C13, C15, C21, C22, C23, C24, C9), 10uF/16V (C8, C14), C10 RM220/35

Connectors
- JTAG P5
- P6 ETM
- J1 ISP, J7 INT1, J9 JTAG, J10 RST
- J3, J4, J5, J11
- S1 Reset, S2 INT1
- P3 USB-PLUG / USB Power Supply
- P14 VIN
- K2 / IC3
- D2 Power (LED)

Signals: TRST, TDI, TMS, TCK, RTCK, TDO, RST, EXTTRIG, TRACECLK, AOUT, AVIN, VIN, DTR, RTS, 3,3V, GND

AOUT

J13
AOUT

C17
100n

R10
10k

R17
1k

IC4
LM386M

VIN

VCC
6

+IN
3

-IN
2

VOut
5

G1
1

G8
8

GND
4

BP
7

C18
100n

C7

RM220/35

Loudspeaker

R16
10R

C16
33n

+3,3V

R20
22k

IC6
74LVC244

1OE
1

1A1
2
1A2
4
1A3
6
1A4
8

1Y1
18
1Y2
16
1Y3
14
1Y4
12

2OE
19

2A1
11
2A2
13
2A3
15
2A4
17

2Y1
9
2Y2
7
2Y3
5
2Y4
3

+3,3V

GND

P1.23
P1.22
P1.21
P1.20

P1.19
P1.18
P1.17
P1.16

P1.[16..24]

LED
J6

+3,3V

680
R15
P1.23

680
R14
P1.22

680
R13
P1.21

680
R12
P1.20

680
R11
P1.19

680
R9
P1.18

680
R8
P1.17

680
R7
P1.16

POT1
10k
E
S
A

+3,3V

J2
AV

AVIN