KEIL SOFTWARE

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IC1 LPC2138

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

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

VSS-1
VSS-2
VSS-3
VSS-4
VSS-5

V3-1
V3-2
V3-3

VBAT
VREF
V3A
VSSA

XTAL1
XTAL2
RESET
RTCX1
RTCX2

TRACECLK
EXTTRIG
RTCK
TDO
TDI
TCK
TMS
TRST

P1 [16..24]
P1.16
P1.17
P1.18
P1.19
P1.20
P1.21
P1.22
P1.23

J8 ETM
R29 10k

P0

IC2 MAX563

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

100n C1
100n C2
C3 100n
C4 100n

+3,3V

P1
COM1
G1
G2

P2
COM0
G1
G2

DTR
RTS
RST

R3 22k
R5 33k
R6 10k
PMLL4448 D1
+3,3V

J1 ISP
J7 INT1
R21 22k
C22 100n
+3,3V
INT1
S2
D4 PMLL4448
R4 33k
T1 BC850
D3 PMLL4448
T2 BC850
C12 100n
J10 RST
S1 Reset
Reset

12.000 MHz
C5 22p
C6 22p
Q1

560k R18
Q2 32,768kHz
C19 22p
C20 22p
AOUT
AVIN

Power supply

Power D2 SM4004
R19 1k
VIN
K2
IN K OUT
GND
IC3 LD1117S33
+3,3V
C9 100n
C8 10uF/16V

P14
VIN
+
-

C10 RM220/35
C14 10uF/16V

P3 USB-PLUG
USB Power Supply

JTAG P5

R23 10k
R24 10k
R25 10k
R26 10k
TRST
TDI
TMS
TCK
RTCK
TDO
RST
R28 10k
R27 10k
R1 10k
R22 10k
J9 JTAG
+3,3V

J3 3,3V
C21 100n
C11 100n
C13 100n
J4 VBAT
C23 100n
J11 VREF
C24 100n
J5 V3A
C15 100n

P6 ETM

P1 [16..24]
P1.21
P1.22
P1.23
P1.20
P1.16
P1.17
P1.18
P1.19
TRST
TDI
TMS
TCK
RTCK
TDO
RST
R2 0R
EXTTRIG
TRACECLK
+3,3V

3,3V
3,3V
GND
GND
GND
+3,3V

AOUT

J13
AOUT

C17
100n

10k
R10

1k
R17

IC4
LM386M

VIN

6
VCC

3
+IN

2
-IN

GND BP
4   7

VOut 5

G1 1

G8 8

C18
100n

R16
10R

C16
33n

C7

RM220/35

Loudspeaker

+3,3V

R20
22k

IC6
74LVC244

1
1OE

P1.23 2
P1.22 4
P1.21 6
P1.20 8

1A1 1Y1 18
1A2 1Y2 16
1A3 1Y3 14
1A4 1Y4 12

19
2OE

P1.19 11
P1.18 13
P1.17 15
P1.16 17

2A1 2Y1 9
2A2 2Y2 7
2A3 2Y3 5
2A4 2Y4 3

+3,3V GND

+3,3V

LED
J6

P1.[16..24]

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

+3,3V

POT1
10k

E
S
A

J2
AV

AVIN

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