HIERARCHICAL SHEET

MEMORY
memory.sch

LCD_USB
lcd_usb.sch

AUDIO
audio.sch

KEY_MATRIX
key_matrix.sch

VBATO
S Q1
TM2301N
G
D2
MSCD104
SE9016
5 VCC BAT 3
GND 2
C35
1uF/16V
PWR_FLAG
4 PROG CHRG 1
U5
R14 2.5K/5%
R15 10K/5%
Q3
D
G
S
PW_ON_N
TM2302N

VBAT
C36
1uF/16V
CON1
VBAT
BAT_CON
GND

D3
RED LED
R12 510/5%
VBUS
D4
MSCD104
CHARGE_N
Low = charging
High = charge done

VRTC
R17 100K/5%
PW_ON_N
TM2301N
S
G
D
Q2
PWEN
R18 100K/5%

VRTC
470K/5%
R13
BL8509-263DNRM
3 VIN VOUT 1 RESETP_N
GND
U6
RESETK
S1

VBATO
V33
470K/5%
R19
BL8506-30NRM
VIN VOUT 1 SHUTDOWN
GND
U7

BL8555-33PRA
VBATO
1 VIN VOUT 3
MSCD104
D1
VRTC
C19
1uF/16V
CE GND NC 4
U4
2
C20
47uF/6.3V

VRTC
R16 100K/5%
WAKEUP_N
ONOFFK
S2

33pF/16V
C1
32768Hz
Y1
R1 1M/5%
33pF/16V
C4
RCLK 120
RCLKO 121
XTAL B9
EXTAL 90
33pF/16V
C5
12MHz
Y2
R2 1M/5%
33pF/16V
C8
R8 330/5%

U1B JZ4720_186P
RTCLK
RTCLKO
EXCLK
EXCLKO
RESETP_N 123 PPRST_N
PW_ON_N 119 POWERON
WAKEUP_N 124 WAKEUP/PD29

VDDIO1 7
VDDIO2 33
VDDIO3 48
VDDIO4 64
VDDIO5 79
VDDIO6 105
VDDIO7 172

VDDCORE1 10
VDDCORE2 32
VDDCORE3 47
VDDCORE4 63
VDDCORE5 76
VDDCORE6 172

V18
C13 10uF/10V
C14 0.1uF/16V
C16 0.01uF/16V
DVSSPLL 104
AVSSPLL1 102
AVSSPLLO 101
VRTC
C21 0.1uF/16V
VDDRTC 122
VSSRTC 119
AVDDPLL 100
DVDDPLL 103

TRST_N 151
TCK 150
TMS 149
TDI/UART0_RXD 148
TDO/UART0_TXD 147

BOOT_SEL0 146
BOOT_SEL1 145
CHIP_MD

VSSIO1 6
VSSIO2 31
VSSIO3 46
VSSIO4 62
VSSIO5 75
VSSIO6 184

VSSCORE1 9
VSSCORE2 30
VSSCORE3 45
VSSCORE4 61
VSSCORE5 76
VSSCORE6 181

VDDADC
VSSADC 95

VDDCADC 141
VDDDAC 139
VSSDAC 138
VSSCADC 142

TRST_N TP1
TCK TP2
TMS TP3
TDI TP4
TDO TP5

V33
R4 10K/5%
R5
R7 10K/5%
0 R9

VDDHP
BD2
PZ1608D221
C15 0.1uF/16V
V33
BD3
PZ1608D221
C18 0.1uF/16V
C17 10uF/10V

EUP3406
VBATO
4 VIN SW 3
L1 4.7uH/1A
V33
C6 10uF/10V
PWEN 1 EN FB 5
GND 2
U2
C7 10pF/16V
R3 680K/1%
C2 0.1uF/16V
C3 10uF/10V
R6 150K/1%

EUP3406
VBATO
4 VIN SW 3
L2 4.7uH/1A
V18
C9 10uF/10V
PWEN 1 EN FB 5
GND 2
U3
C10 10pF/16V
R10 300K/1%
C11 10uF/10V
C12 0.1uF/16V
R46 10K/5%
C69 0.1uF/16V
R11 150K/1%

TP32 TP78 TP77 TP76 TP6 TP7 TP8 TP9 TP10
TESTPOINT
CHARGE_N SHUTDOWN WAKEUP_N GND RESETP_N VBUS VBAT V33 V18