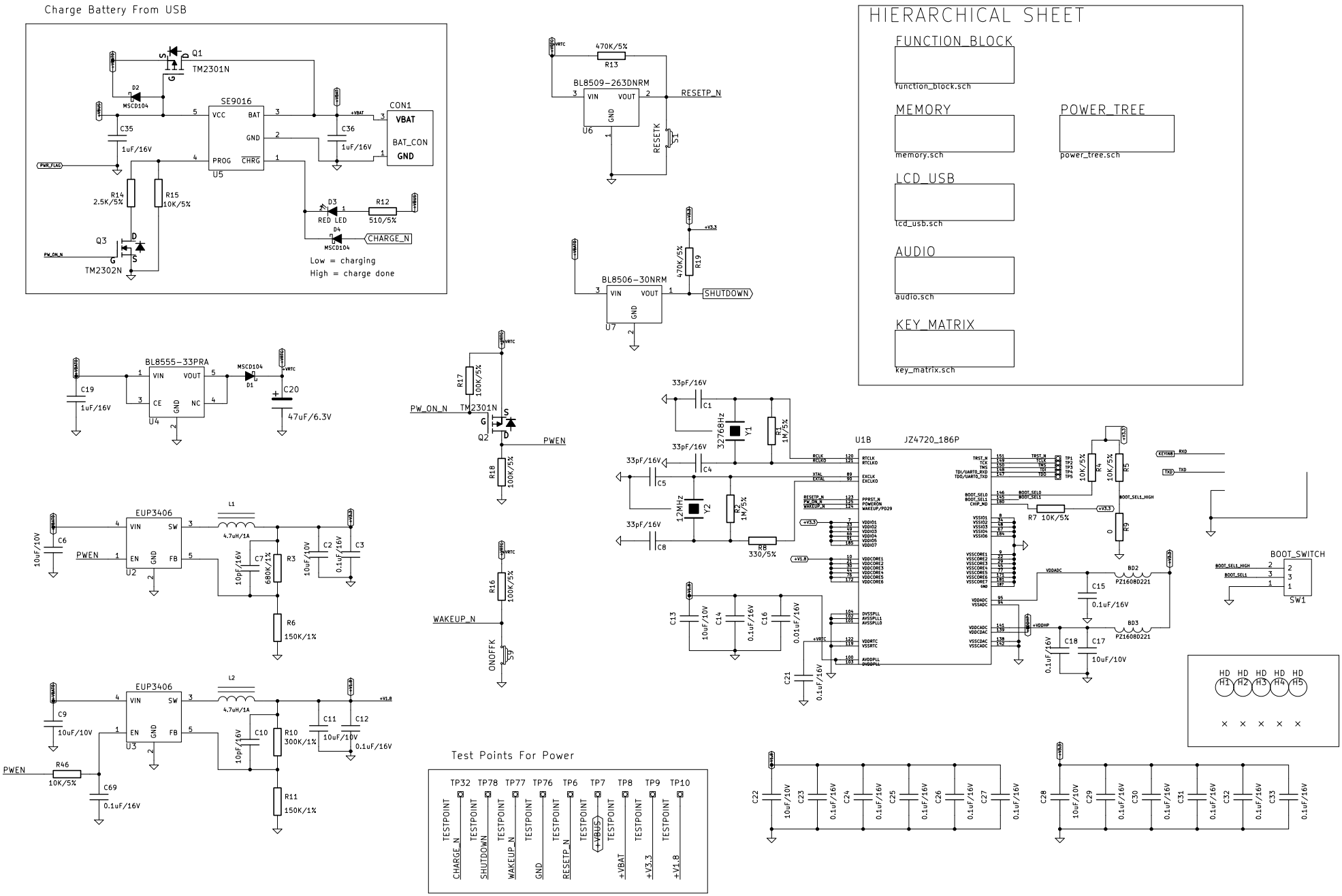
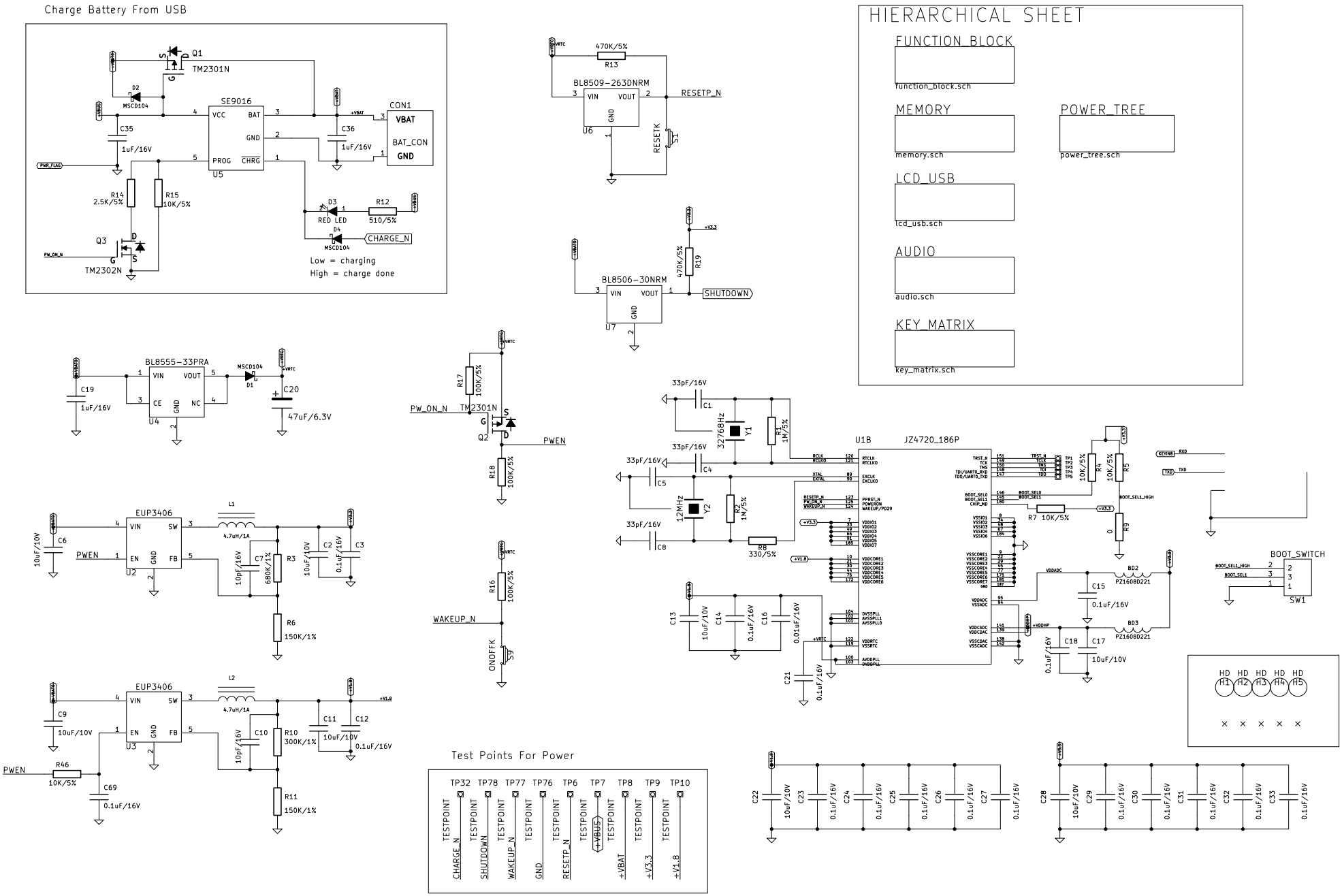

Charge Battery From USB
Q1
TM2301N
D2
MSCD104
SE9016
VCC
BAT
GND
PROG
CHRG
U5
C35
1uF/16V
C36
1uF/16V
CON1
VBAT
BAT_CON
GND
PWR_FLAG
R14
2.5K/5%
R15
10K/5%
D3
RED LED
R12
510/5%
D4
MSCD104
CHARGE_N
Q3
TM2302N
PW_ON_N
Low = charging
High = charge done
470K/5%
R13
BL8509-263DNRM
VIN
VOUT
GND
U6
RESETP_N
RESETK
S1
470K/5%
R19
BL8506-30NRM
U7
SHUTDOWN
HIERARCHICAL SHEET
FUNCTION_BLOCK
function_block.sch
MEMORY
memory.sch
POWER_TREE
power_tree.sch
LCD_USB
lcd_usb.sch
AUDIO
audio.sch
KEY_MATRIX
key_matrix.sch
BL8555-33PRA
CE
NC
U4
C19
1uF/16V
MSCD104
D1
C20
47uF/6.3V
R17
100K/5%
PW_ON_N
TM2301N
Q2
PWEN
R18
100K/5%
EUP3406
SW
EN
FB
U2
L1
4.7uH/1A
C6
10uF/10V
PWEN
C7
10pF/16V
680K/1%
R3
C2
10uF/10V
C3
0.1uF/16V
R6
150K/1%
R16
100K/5%
WAKEUP_N
ONOFFK
S9
EUP3406
U3
L2
4.7uH/1A
C9
10uF/10V
PWEN
R46
10K/5%
C69
0.1uF/16V
C10
10pF/16V
R10
300K/1%
C11
10uF/10V
C12
0.1uF/16V
R11
150K/1%
+V1.8
Test Points For Power
TP32 TP78 TP77 TP76 TP6 TP7 TP8 TP9 TP10
TESTPOINT
CHARGE_N
SHUTDOWN
WAKEUP_N
GND
RESETP_N
+VBUS
+VBAT
+V3.3
+V1.8
33pF/16V
C1
32768Hz
Y1
R1
1M/5%
C4
C5
12MHz
Y2
R2
1M/5%
C8
R8
330/5%
U1B
JZ4720_186P
RTCLK
RTCLKO
EXCLK
EXCLKO
PPRST_N
POWERON
WAKEUP/PD29
VDDIO1
VDDIO2
VDDIO3
VDDIO4
VDDIO5
VDDIO7
VDDCORE1
VDDCORE2
VDDCORE3
VDDCORE4
VDDCORE5
VDDCORE6
DVSSPLL
AVSSPLL1
AVSSPLL0
VDDRTC
VSSRTC
AVDDPLL
DVDDPLL
TRST_N
TCK
TMS
TDI/UART0_RXD
TDO/UART0_TXD
TCLK
TMS
TDI
TDO
BOOT_SEL0
BOOT_SEL1
CHIP_MD
VSSIO1
VSSIO2
VSSIO3
VSSIO4
VSSIO6
VSSCORE1
VSSCORE2
VSSCORE3
VSSCORE4
VSSCORE5
VSSCORE6
VSSCORE7
GND
VDDADC
VSSADC
VDDCADC
VDDCDAC
VSSCDAC
VSSCADC
R4
10K/5%
R5
10K/5%
R7 10K/5%
R9
0
BOOT_SEL1_HIGH
KEYINB
RXD
TXD
BD2
PZ1608D221
BD3
PZ1608D221
C15
0.1uF/16V
C18
0.1uF/16V
C17
10uF/10V
C13
10uF/10V
C14
0.1uF/16V
C16
0.01uF/16V
C21
0.1uF/16V
BOOT_SWITCH
SW1
HD H1
HD H2
HD H3
HD H4
HD H5
C22
10uF/10V
C23
0.1uF/16V
C24
0.1uF/16V
C25
0.1uF/16V
C26
0.1uF/16V
C27
0.1uF/16V
C28
10uF/10V
C29
0.1uF/16V
C30
0.1uF/16V
C31
0.1uF/16V
C32
0.1uF/16V
C33
0.1uF/16V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GND
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VBAT
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BL8555-33PRA
VIN
VOUT
CE
GND
NC
U4
C19
1uF/16V
MSCD104
D1
C20
47uF/6.3V
R17
100K/5%
PW_ON_N
TM2301N
Q2
PWEN
R18
100K/5%
EUP3406
VIN
SW
EN
GND
FB
U2
L1
4.7uH/1A
C6
10uF/10V
PWEN
C7
10pF/16V
680K/1%
R3
10uF/10V
C2
C3
0.1uF/16V
R6
150K/1%
R16
100K/5%
WAKEUP_N
ONOFFK
S9
EUP3406
U3
L2
4.7uH/1A
C9
10uF/10V
C10
10pF/16V
R10
300K/1%
C11
10uF/10V
C12
0.1uF/16V
+V1.8
PWEN
R46
10K/5%
C69
0.1uF/16V
R11
150K/1%
33pF/16V
C1
32768Hz
Y1
R1
1M/5%
C4
C5
12MHz
Y2
R2
1M/5%
C8
R8
330/5%
U1B
JZ4720_186P
RCLK
RCLKO
XTAL
EXTAL
RESETP_N
PW_ON_N
WAKEUP_N
PPRST_N
POWERON
WAKEUP/PD29
VDDIO1
VDDIO2
VDDIO3
VDDIO4
VDDIO5
VDDIO7
VDDCORE1
VDDCORE2
VDDCORE3
VDDCORE4
VDDCORE5
VDDCORE6
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AVSSPLL1
AVSSPLL0
VDDRTC
VSSRTC
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DVDDPLL
TRST_N
TCK
TMS
TDI/UART0_RXD
TDO/UART0_TXD
TCLK
TMS
TDI
TDO
TP1
TP2
TP3
TP4
TP5
BOOT_SEL0
BOOT_SEL1
CHIP_MD
R7 10K/5%
VSSIO1
VSSIO2
VSSIO3
VSSIO4
VSSIO6
VSSCORE1
VSSCORE2
VSSCORE3
VSSCORE4
VSSCORE5
VSSCORE6
VSSCORE7
GND
VDDADC
VSSADC
VDDCADC
VDDCDAC
VSSCDAC
VSSCADC
VDDHP
R4
10K/5%
R5
10K/5%
BOOT_SEL1_HIGH
R9
KEYIN8
RXD
TXD
BD2
PZ1608D221
C15
0.1uF/16V
BD3
PZ1608D221
C18
0.1uF/16V
C17
10uF/10V
BOOT_SWITCH
SW1
C13
10uF/10V
C14
0.1uF/16V
C16
0.01uF/16V
C21
0.1uF/16V
HD H1
HD H2
HD H3
HD H4
HD H5
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TP32 TESTPOINT CHARGE_N
TP78 TESTPOINT SHUTDOWN
TP77 TESTPOINT WAKEUP_N
TP76 TESTPOINT GND
TP6 TESTPOINT RESETP_N
TP7 TESTPOINT +VBUS
TP8 TESTPOINT +VBAT
TP9 TESTPOINT +V3.3
TP10 TESTPOINT +V1.8
C22 10uF/10V
C23 0.1uF/16V
C24 0.1uF/16V
C25 0.1uF/16V
C26 0.1uF/16V
C27 0.1uF/16V
C28 10uF/10V
C29 0.1uF/16V
C30 0.1uF/16V
C31 0.1uF/16V
C32 0.1uF/16V
C33 0.1uF/16V