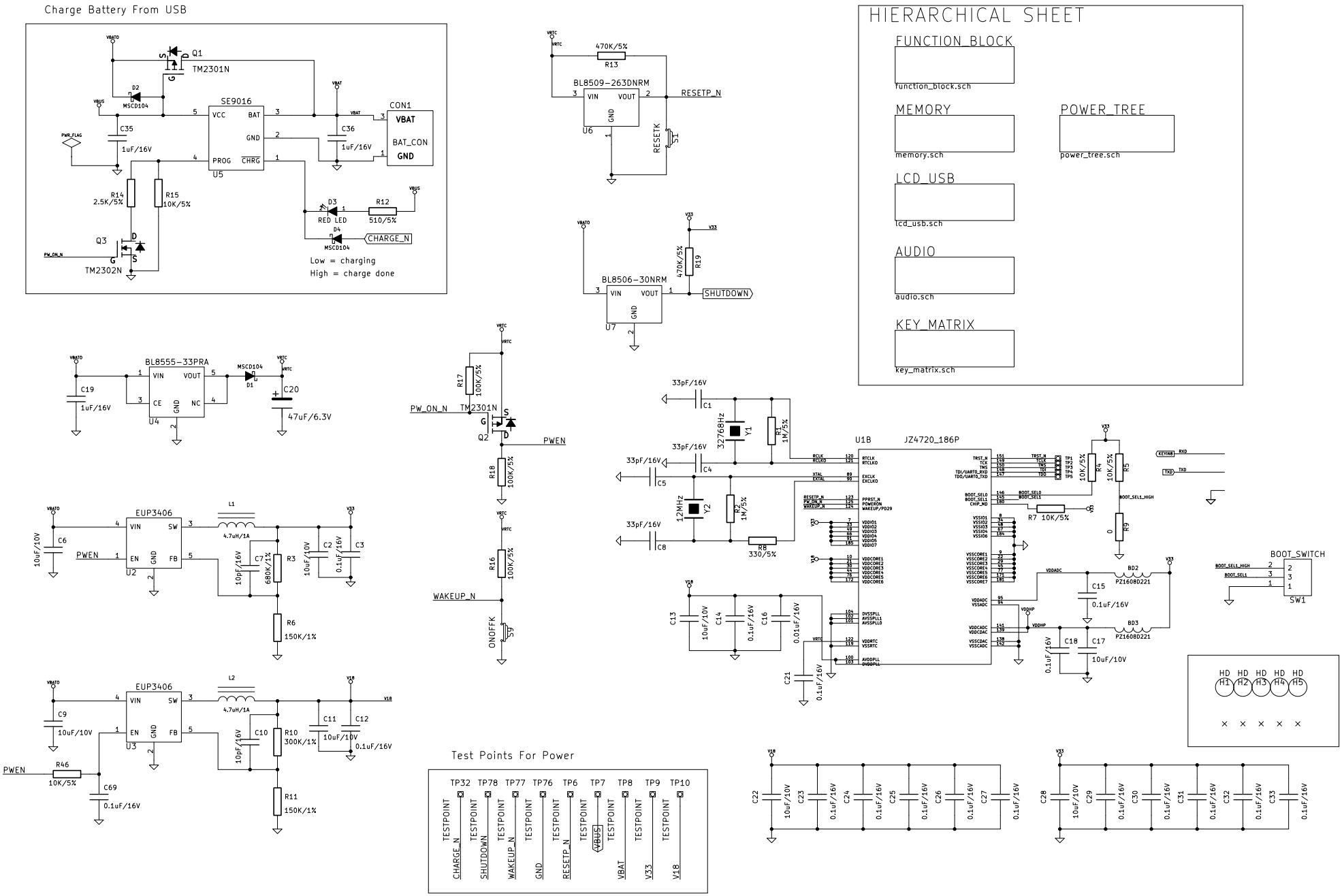
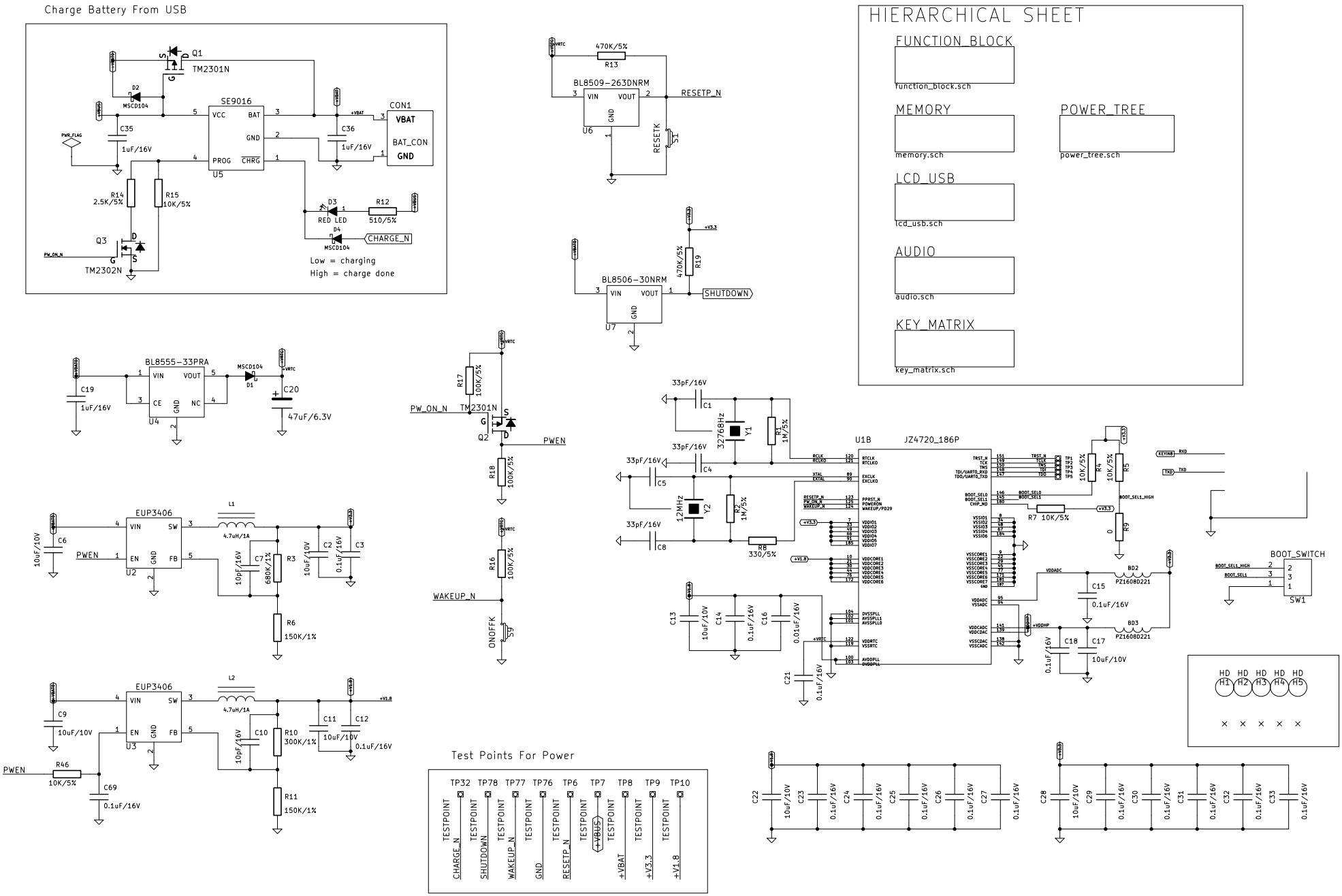

Charge Battery From USB
Q1
TM2301N
D2
MSCD104
SE9016
VCC
BAT
GND
PROG
CHRG
U5
C35
1uF/16V
C36
1uF/16V
CON1
VBAT
BAT_CON
GND
PWR_FLAG
R14
2.5K/5%
R15
10K/5%
D3
RED LED
R12
510/5%
D4
MSCD104
CHARGE_N
Q3
TM2302N
PW_ON_N
Low = charging
High = charge done
470K/5%
R13
BL8509-263DNRM
VIN
VOUT
GND
U6
RESETP_N
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%
R16
100K/5%
WAKEUP_N
ONOFFK
S9
EUP3406
EN
FB
U2
C6
10uF/10V
L1
4.7uH/1A
C7
680K/1%
R3
C2
10uF/10V
C3
0.1uF/16V
R6
150K/1%
U3
C9
10uF/10V
L2
C10
10pF/16V
R10
300K/1%
C11
10uF/10V
C12
0.1uF/16V
R11
150K/1%
R46
10K/5%
C69
0.1uF/16V
U1B
JZ4720_186P
C1
33pF/16V
32768Hz
Y1
R1
1M/5%
C4
C5
12MHz
Y2
R2
1M/5%
C8
R8
330/5%
C13
10uF/10V
C14
0.1uF/16V
C16
0.01uF/16V
C21
0.1uF/16V
R4
10K/5%
R5
10K/5%
R7 10K/5%
R9
BD2
PZ1608D221
BD3
PZ1608D221
C15
0.1uF/16V
C18
0.1uF/16V
C17
10uF/10V
BOOT_SWITCH
SW1
HD H1
HD H2
HD H3
HD H4
HD H5
Test Points For Power
TP32 CHARGE_N
TP78 SHUTDOWN
TP77 WAKEUP_N
TP76 GND
TP6 RESETP_N
TP7 VBUS
TP8 VBAT
TP9 V33
TP10 V18
TESTPOINT
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


Charge Battery From USB
Q1
TM2301N
D2
MSCD104
SE9016
VCC
BAT
GND
PROG
CHRG
U5
C35
1uF/16V
PWR_FLAG
C36
1uF/16V
+VBAT
CON1
VBAT
BAT_CON
GND
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%
R16
100K/5%
WAKEUP_N
ONOFFK
S9
EUP3406
EN
FB
U2
C6
10uF/10V
L1
4.7uH/1A
C7
680K/1%
R3
C2
10uF/10V
C3
0.1uF/16V
R6
150K/1%
EUP3406
U3
C9
10uF/10V
L2
4.7uH/1A
C10
10pF/16V
R10
300K/1%
C11
10uF/10V
C12
0.1uF/16V
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
C13
10uF/10V
C14
0.1uF/16V
C16
0.01uF/16V
C21
0.1uF/16V
R4
10K/5%
R5
10K/5%
R7 10K/5%
R9
BD2
PZ1608D221
C15
0.1uF/16V
BD3
PZ1608D221
C18
0.1uF/16V
C17
10uF/10V
BOOT_SWITCH
SW1
HD H1
HD H2
HD H3
HD H4
HD H5
Test Points For Power
TP32 CHARGE_N TESTPOINT
TP78 SHUTDOWN TESTPOINT
TP77 WAKEUP_N TESTPOINT
TP76 GND TESTPOINT
TP6 RESETP_N TESTPOINT
TP7 +VBUS TESTPOINT
TP8 +VBAT TESTPOINT
TP9 +V3.3 TESTPOINT
TP10 +V1.8 TESTPOINT
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