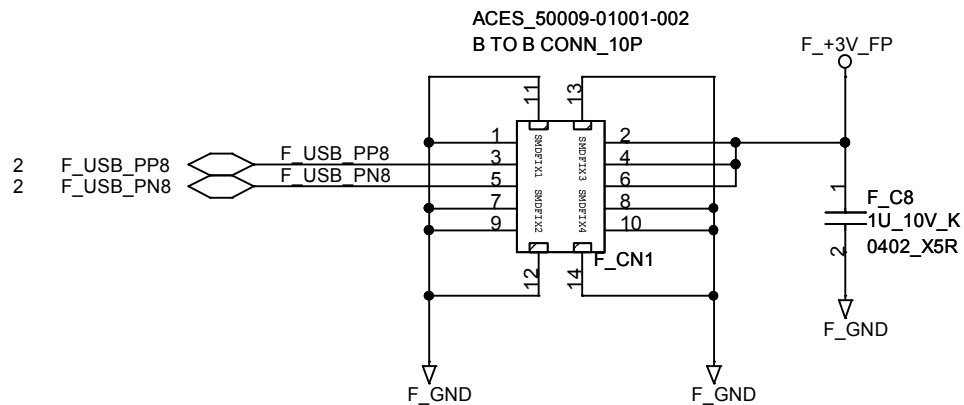




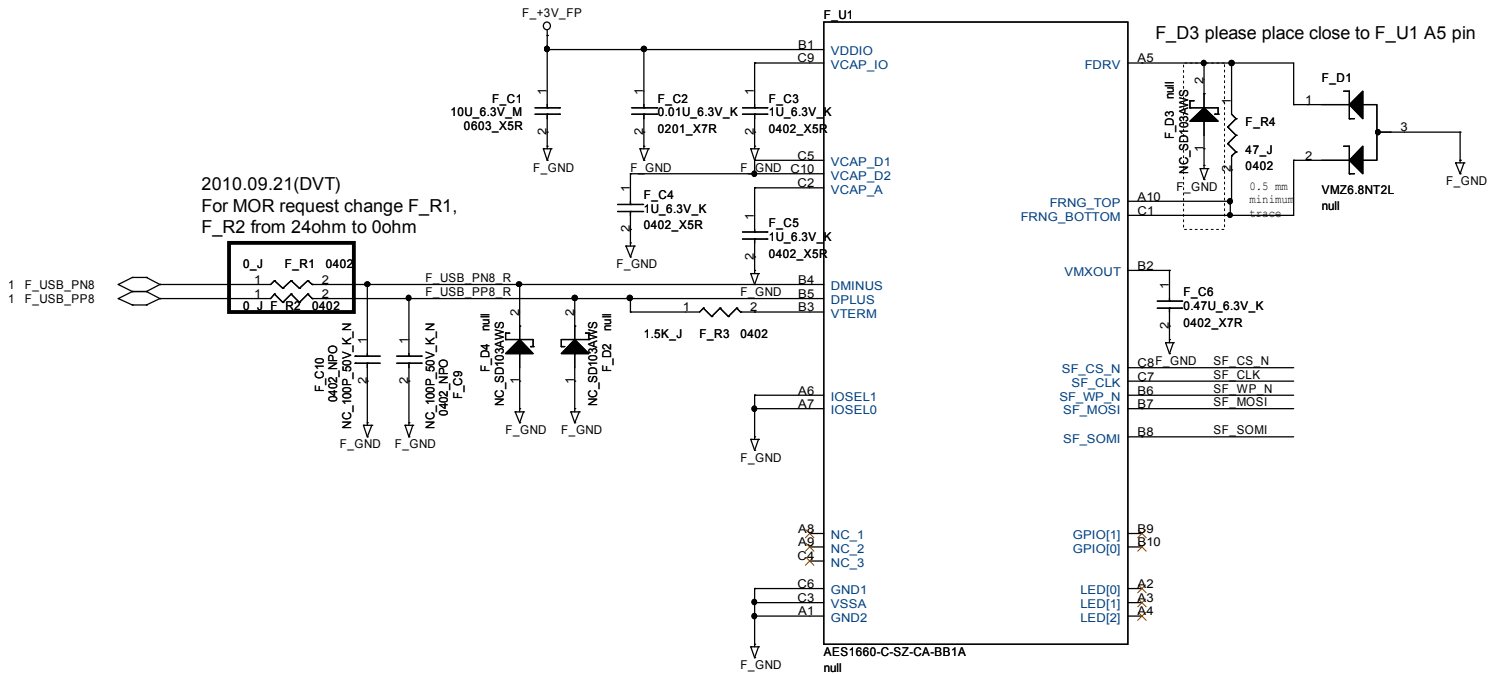
Fingerprint BTB CONN.

FOXCONN		HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title DB CONN (Fingerprint)			
Size A	Document Number V030 MP		Rev 1.1
Date:	Thursday, January 20, 2011	Sheet 1 of 19	

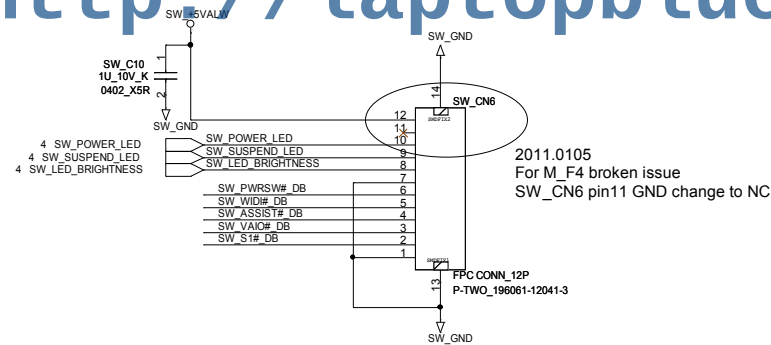
2010.09.20(DVT)
For F_U1 15-AES1660-0000
used for lenovol change to
15-AES1660-0001

2010.12.27
For MOR request F_U1
change from 15-AES1660-0001
to 15-AES1660-0002

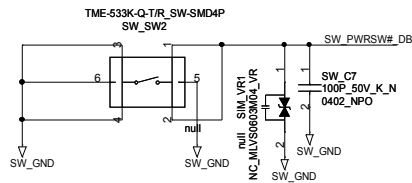
2010.09.21(DVT)
For MOR request change F_R1,
F_R2 from 24ohm to 0ohm



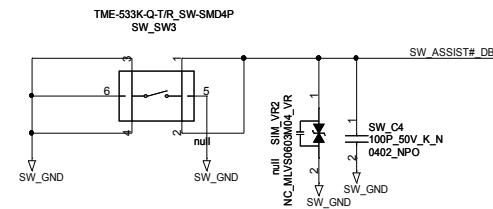
tpc40b_75 F_TP5	1	SF_CS_N
tpc40b_75 F_TP6	1	SF_MOSI
tpc40b_75 F_TP7	1	SF_CLK
tpc40b_75 F_TP8	1	SF_SOMI
tpc40b_75 F_TP9	1	SF_WP_N



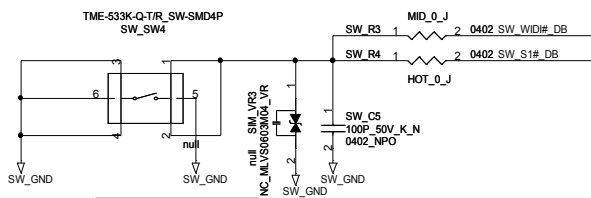
To MS/SD DB



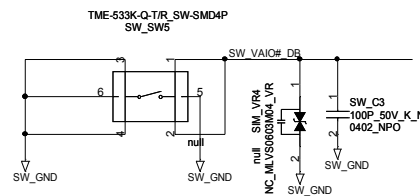
Power



ASSIST



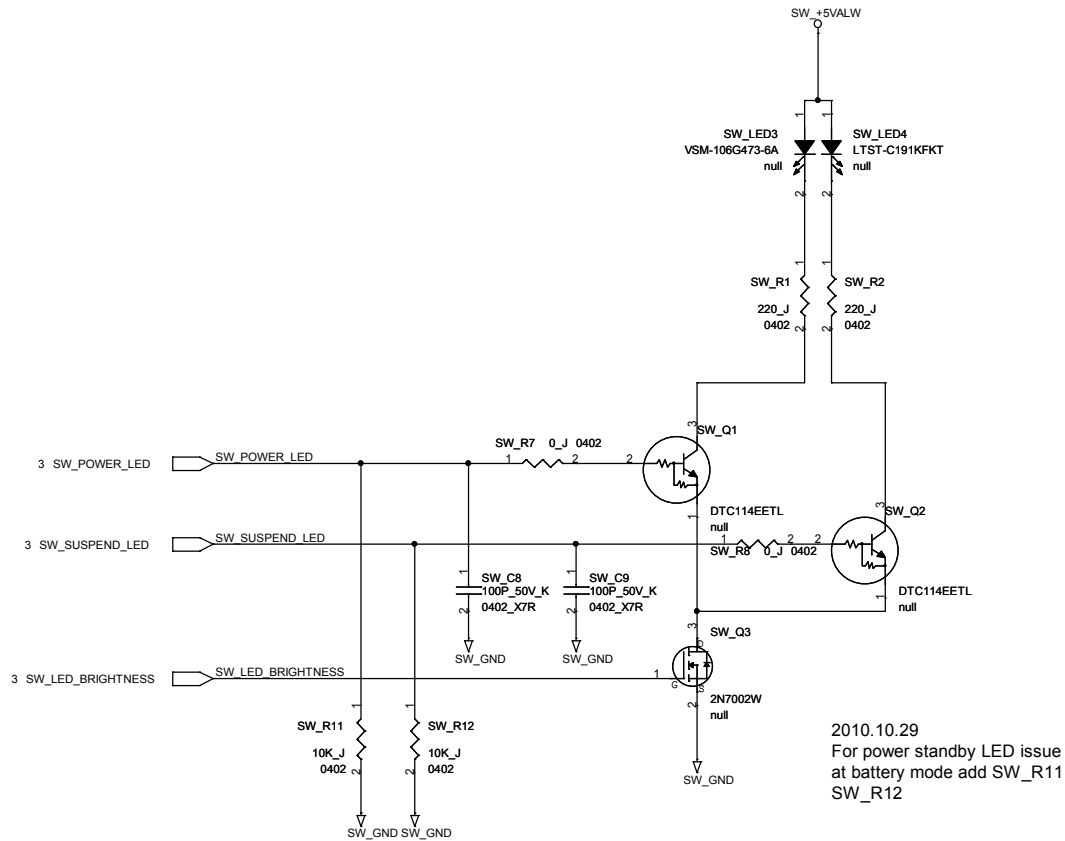
S1/WEB



VAIO / S3

SKU	SW_R3	SW_R4
MILD-B	Mount	NC
HOT	NC	Mount

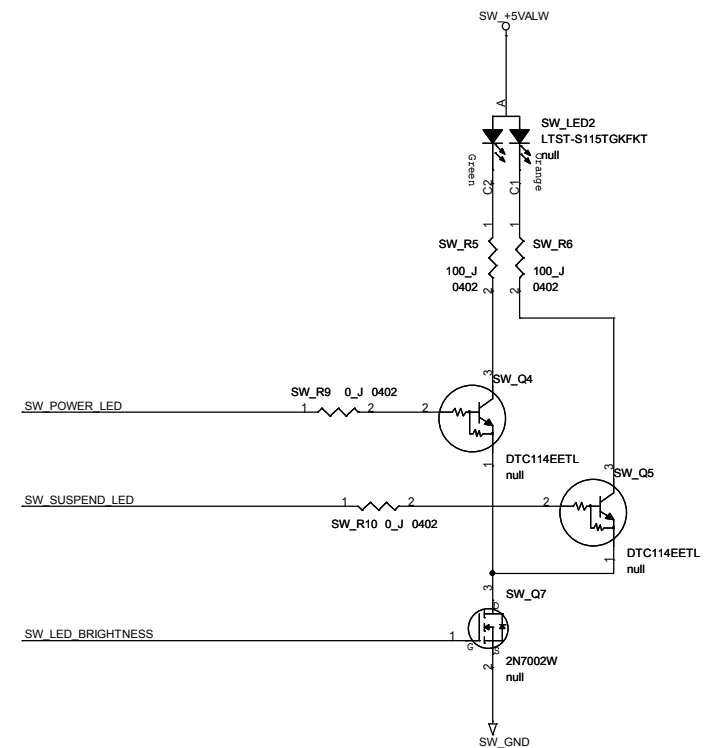
Power/Suspend LED

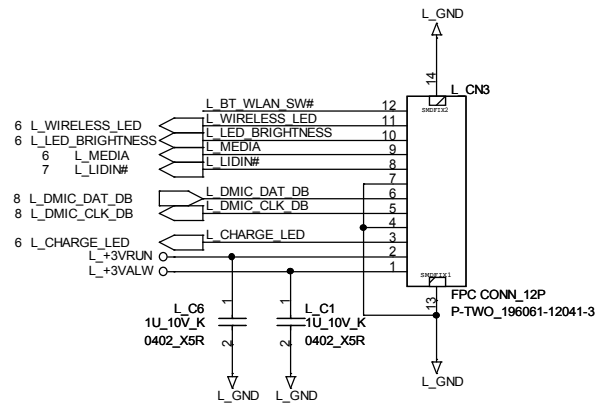


Change SW_R11 and SW_R12 from 1R-0000104-J200 to 1R-0000103-J200
 Change SW_R5 and SW_R6 from 1R-0000151-J200 to 1R-0000101-J200
 Change SW_R1 and SW_R2 from R-0000151-J200 to 1R-0000221-J200
 Modify LED brightness 01/20

2010.10.29
For power standby LED issue
at battery mode add SW_R11
SW_R12

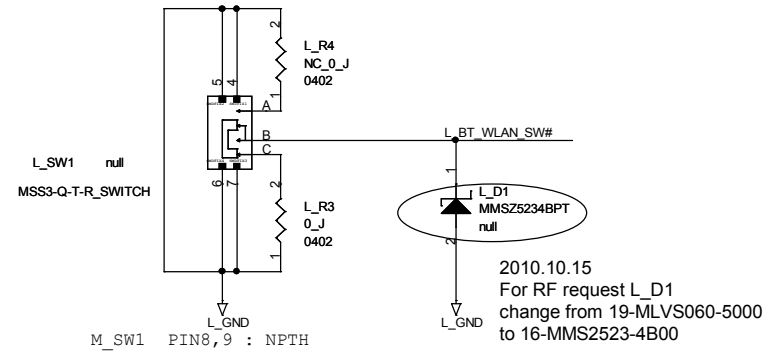
Power/Suspend LED

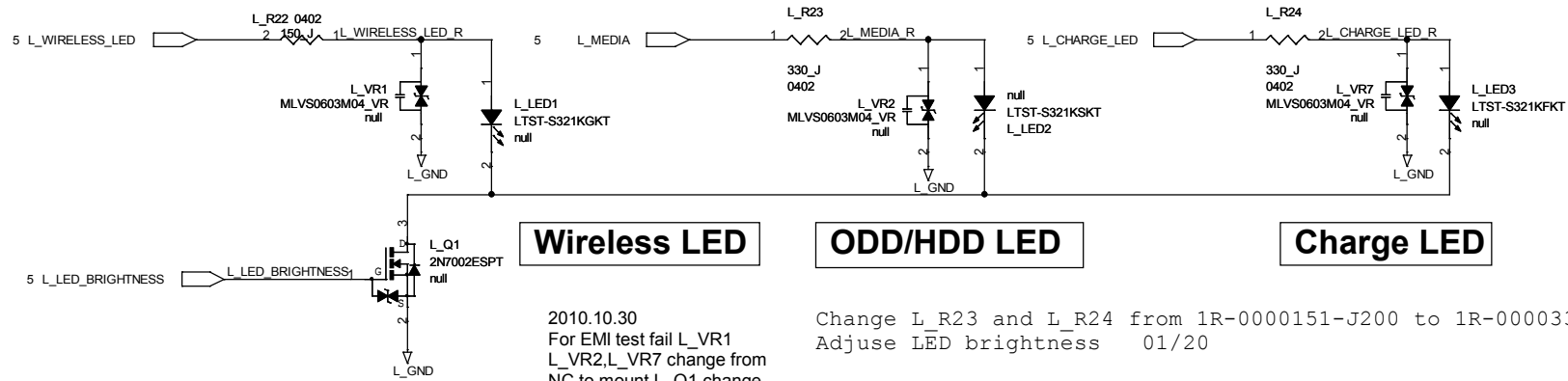




TO MS/SD DB

WLAN Switch





Wireless LED

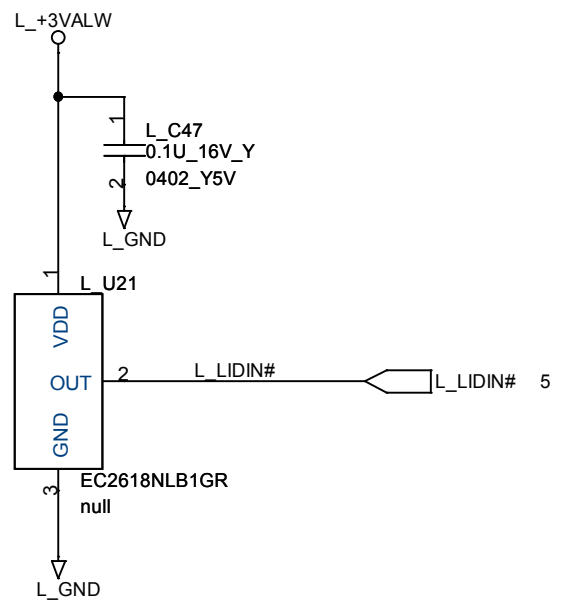
ODD/HDD LED

Charge LED

2010.10.30
For EMI test fail L_VR1
 L_VR2, L_VR7 change from
NC to mount, L_Q1 change
from 17-ME2N700-2E00 to
17-2N7002E-SP00

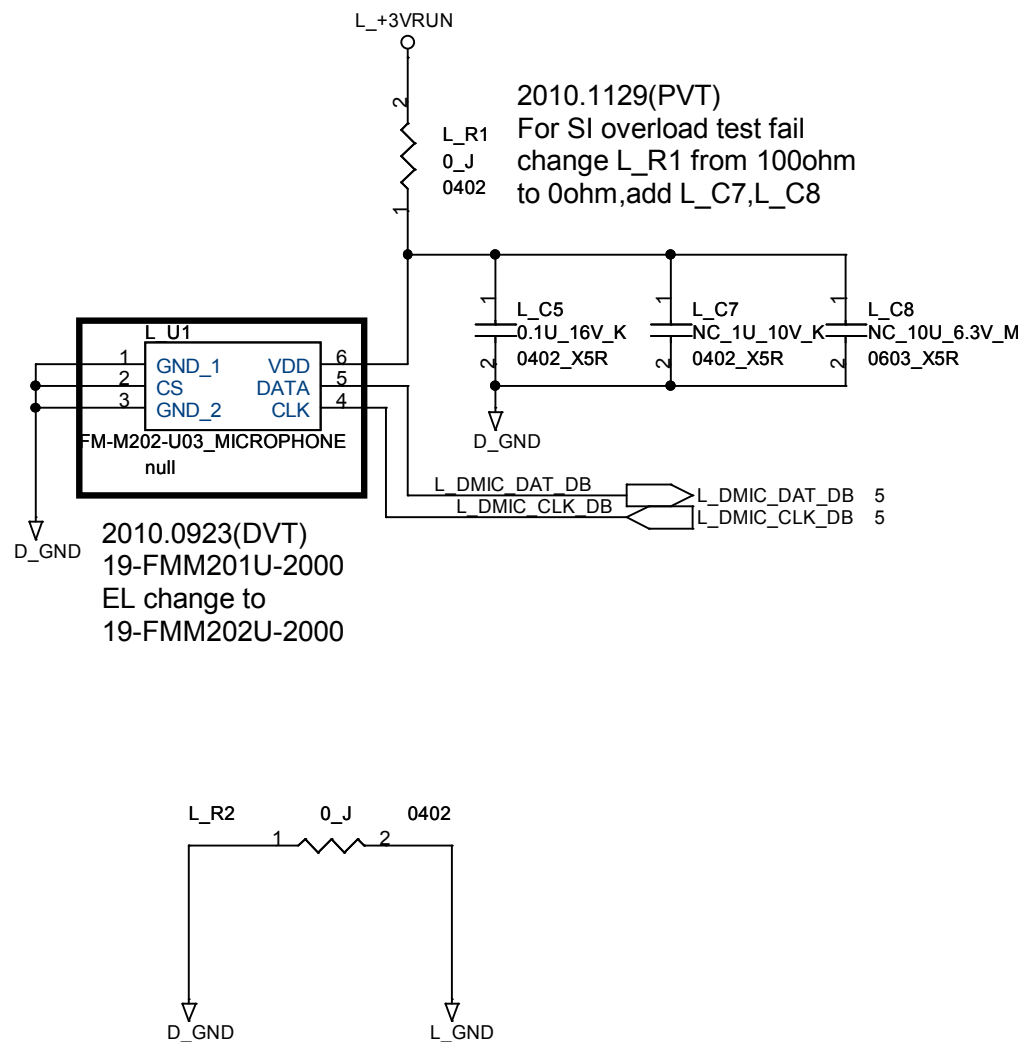
Change L_R23 and L_R24 from 1R-0000151-J200 to 1R-0000331-J200
Adjust LED brightness 01/20

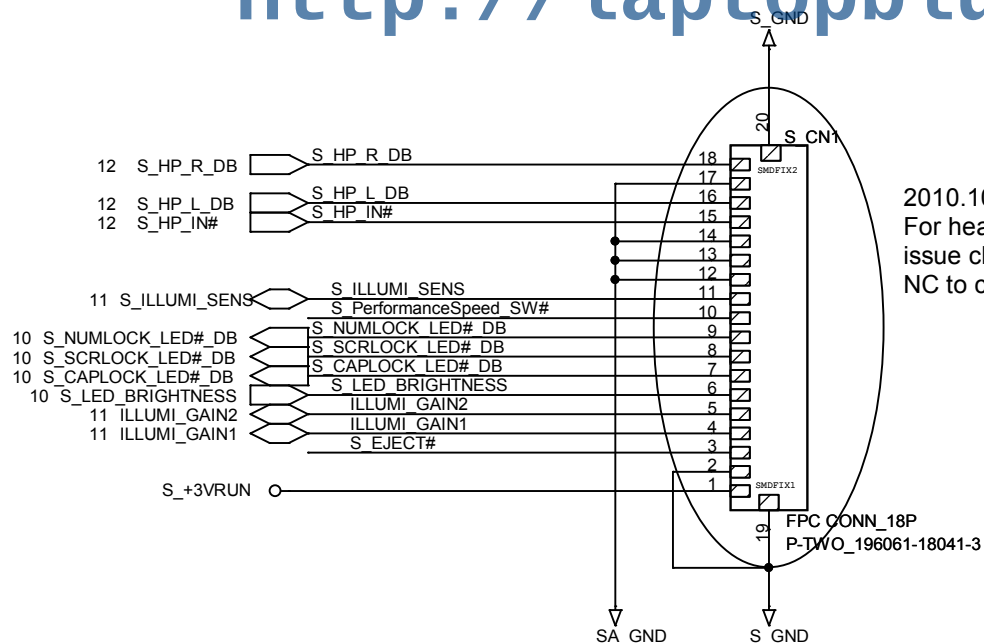
<http://laptopblue.vn/>



LID Switch

FOXCONN		HON HAI Precision Ind. Co., Ltd. CCPBG - R&D Division	
Title LID L			
Size A	Document Number V030 MP		Rev 1.1
Date:	Thursday, January 20, 2011	Sheet 7 of 19	

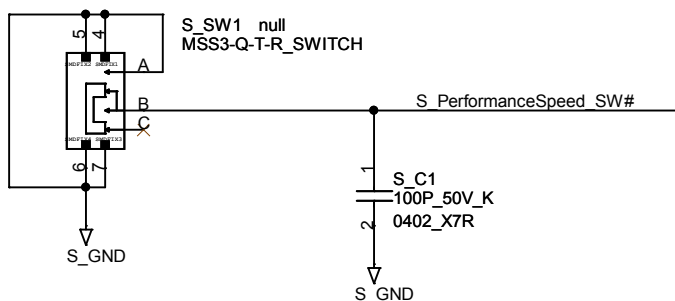




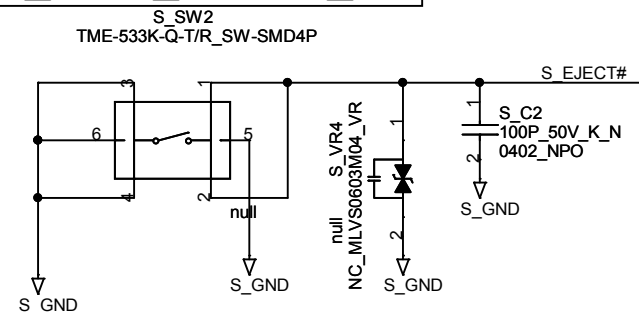
2010.1014
For headphon crosstalk
issue change pin12,13,14
NC to connect to A_GND

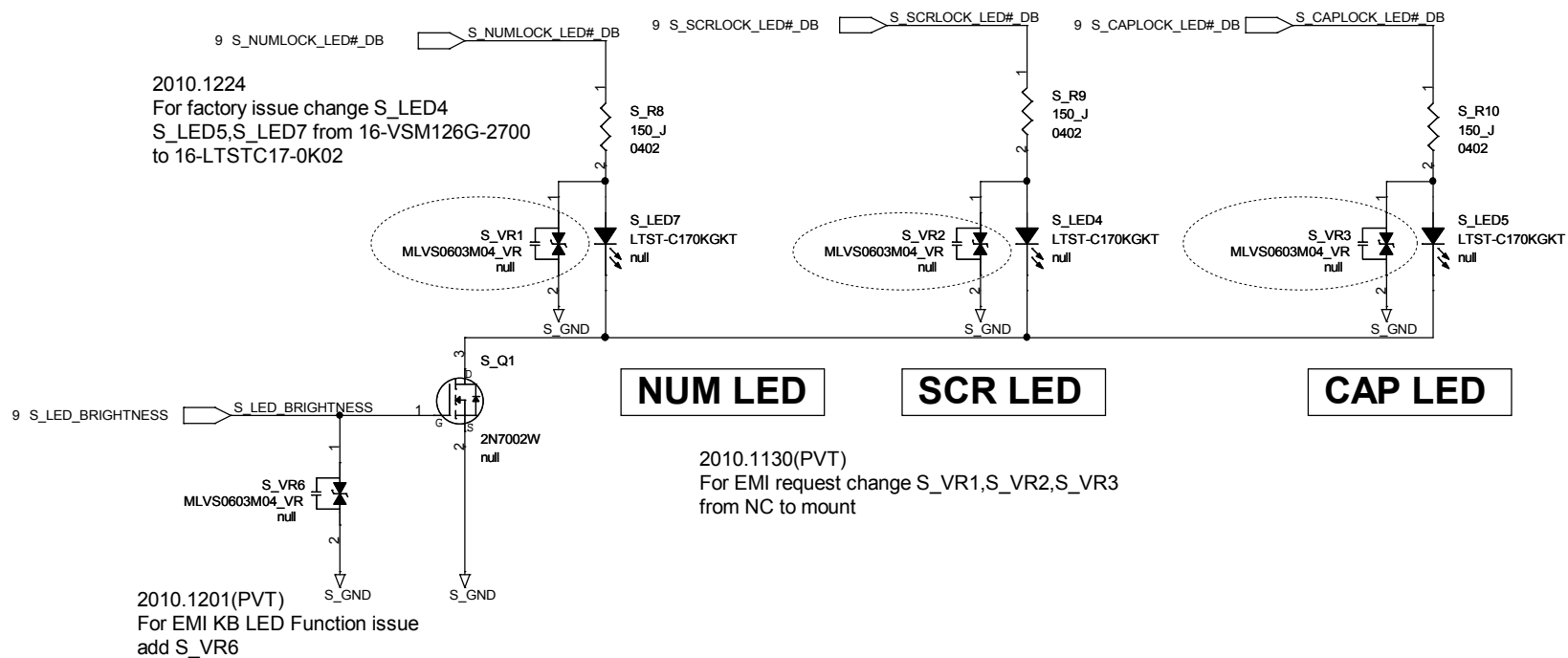
To MS/SD DB

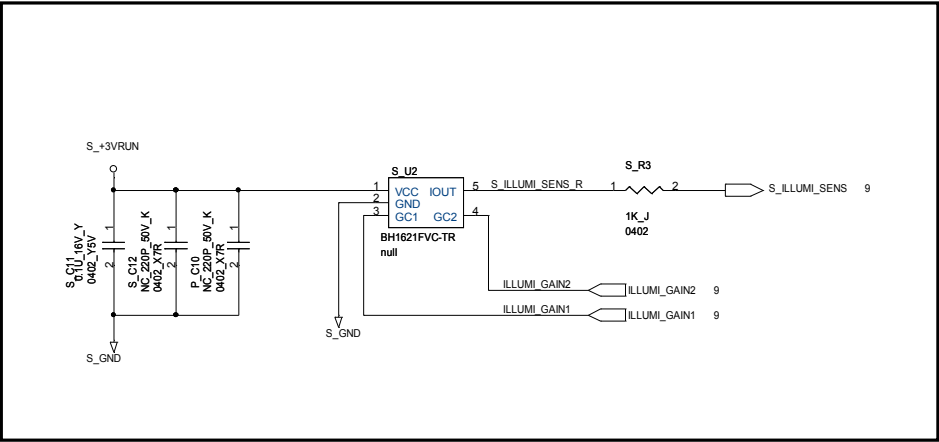
PerformanceSpeed_SW



PC_ODD_EJECT_SW







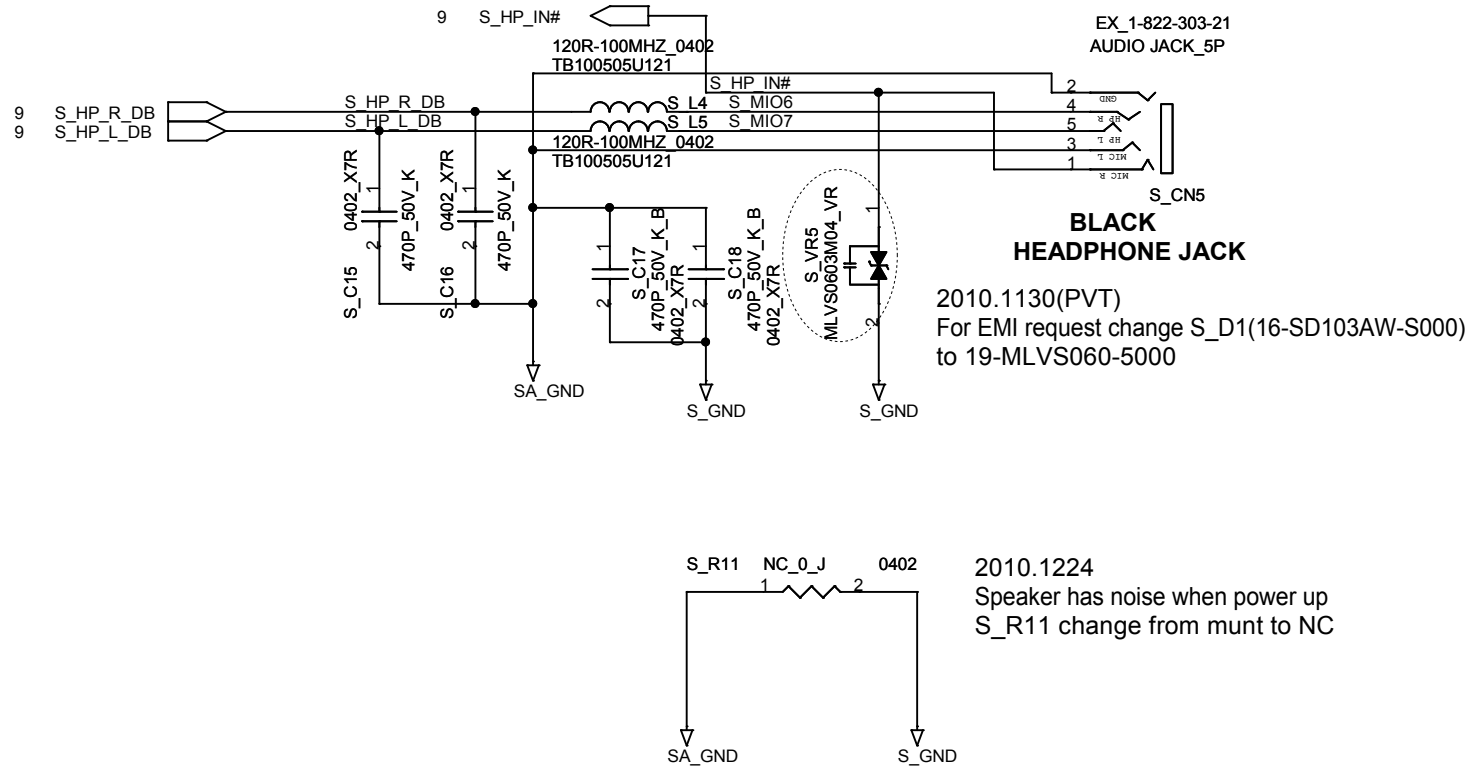
2010.09.20(DVT)
Light sensor follow V050 change from 15-BH1600F-0000 to 15-BH1621F-0000

Mode Setting		
GC2	GC1	Mode
0	0	Shutdown
0	1	H-Gain Mode
1	0	L-Gain Mode
1	1	Shutdown

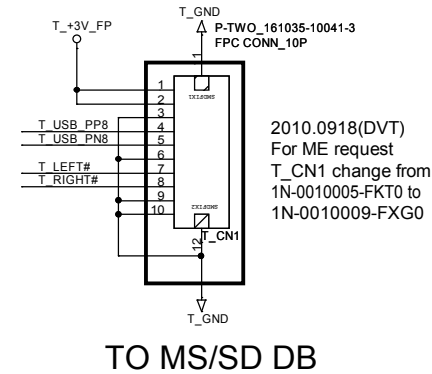
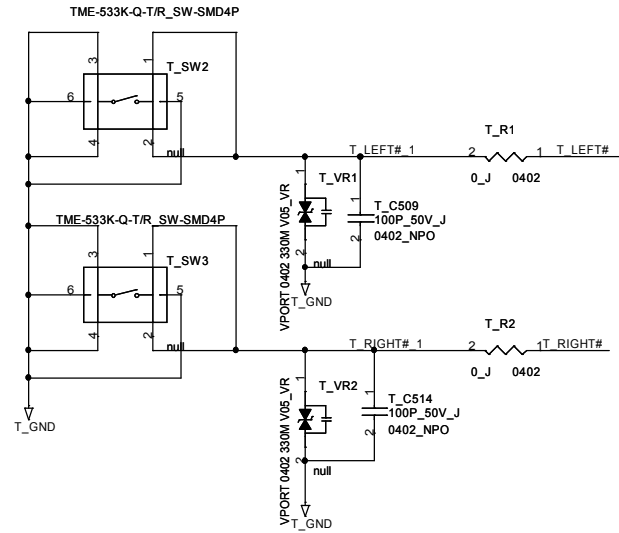
$Vi_{out}(Max) = VCC - 0.1V$

H-Gain mode
 $Vi_{out} = 0.6u * Ev * R14$

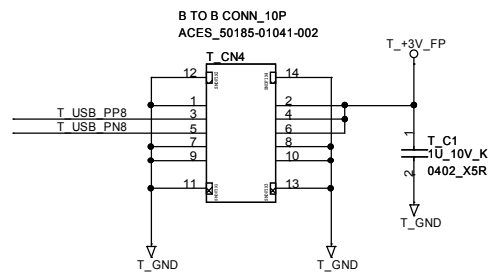
L-Gain mode
 $Vi_{out} = 0.063u * Ev * R14$



TP_LEFT Button



TP_Right Button



Fingerprint BTB CONN.

2010/04/26

P.1 Change F_SW2&F_SW3 to 19-TME533S-1000, del F_U13 EPROM

2010/05/03

P.1 Move touchpad button to touchpad DB
Delete F_SW1,F_SW2,F_VR1,F_VR2,F_C509,F_C514,F_CN1
P.1 Add BTB conn F_CN2

2010/05/07

P.1 For MOR request change the fingerprint IC to 15-AES1660-0000
P.2 For the cost and space reason change T_CN4 from 1N-0020008-FKG0 to 1N-0008000-FXT0
P.2 Add F_C8 for EMI

2010/05/10

P.1 Vendor repuest use 13-MX25L40-7001 change from 13-AT25128-8000 to 13-MX25L40-7001

2010/05/19

P.2 MOR request not use fingerprit EEPROM,NC F_U2&F_C7

2010/06/03

P.16 For vendor suggestion change F_D1 from 16-MMB26V8-AL00 to 16-VM268N0-0000

2010/06/16

P.19 F_CN1 ME have change from 1N-0008000-FXT0 to 1N-002000K-FKG0

2010/06/17

P.20 Follow MOR request add F_D2,F_C9,F_C10 reserved for ESD

2010/06/21

P.20 Follow MOR request delete F_U2(13-MX25L40-7001),F_C7(1C-2B10104-K100)

2010/06/29

P.20 Add F_D3 for MOR suggestion

2010/07/07

P.19 Follow connector list F_CN1 change to 1N-0010005-FXG0

2010/07/08

P.20 For PUR suggestion F_C6 change to 1C-2B20474-K000

EVT2

2010/08/25

P.20 [Fingerprint] F_U1 B4,B5 add net name

DVT

2010/09/18

P.21 [Fingerprint] For when system enter to S4 can not atttech device change F_C1 from mount to NC

2010/09/21

P.21 [Fingerprint] Follow PUR suggestion F_U1 change from 15-AES1660-0000 to 15-AES1660-0001

P.21 [Fingerprint] Follow MOR suggestion change F_R1,F_R2 from 24ohm to 0ohm

2010/10/07

P.21 [Fingerprint] F_C1 change NC to Mount

MP

2010/12/27

P.02 [Fingerprint] For MOR request F_U1 change from 15-AES1660-0001 to 15-AES1660-0002

4
http://laptopblue.vn/

(2010-04-25)
P.1 Light sensor IC change from 15-TSL2561-0000 to 15-BH1690F-0000
P.1 Add PC Eject function, add M_SW6
P.1 Del nets M_KS018, M_KSI1, M_KSI2, M_KSI7. Add nets M_SW_ASSIST#, M_SW_SW#, M_SW_VIBO#
P.1 Del charge LED,power LED, suspend LED
P.1 Change M_SW2/3/4/5/6 to 19-TME533S-1000

(2010-04-28)
P.1 Move speed switch&LED&Light sensor to speed DB
P.1 Add M_CN2 for speed DB

(2010-05-03)
P.1 Move NUM LED,SCR LED,CAP LED to Speed DB

(2010-05-04)
P.1 Change M_CN2 to 1N-0010001-F0T0 (10pin)
P.1 Change M_CN1 to 1N-0016002-FXG0 (16pin)

(2010-05-07)
P.1 M_CN2 place the S_+3VRUN to pin1
P.1 M_PWRSW# add M_C7
P.1 S_+3VRUN,M_+3VRUN add M_C1,M_C2
P.1 M_C1 pin1,M_C2 pin10 change to MB GND PIN

(2010-05-12)
P.01 Avoide the name M_CN1,M_CN2 same as MS/SD DB Connector change to M_CN5,M_CN6

(2010-05-13)
P.01 M_CN5 change from 10pin 1N-0010001-F0T0 to 12pin 1N-0012004-F0T0

(2010-05-17)
P.01 M_CN5 change from 12pin 1N-0012004-F0T0 to 10pin 1N-0010001-F0T0
Move digital microphone Block from Speed DB to LED DB
P.01 M_CN6 Delete DMIC CLK/DATA signal

(2010-05-20)
Combine DB schemetic change signal and device prefix from M_ to SW_
P.01 For speed connect to MB delete SW_CN5 (1N-0010001-F0T0),SW_C8&SW_C2 (1C-2B20105-K200)
P.01 For speed connect to MB SW_CN6 pin fewer than before change from 1N-0016002-FXG0 to 1N-0006009-FXT0

(2010-05-24)
P.01 For ME request move SW_SW6&SW_C6 to speed DB

(2010-06-23)
P.21 Follow EMI suggestion add SIM_VR1,SIM_VR2,SIM_VR3,SIM_VR4

(2010-06-25)
P.21 Follow ME DXF Power LED move to Switch DB SW_CN6 change to 1N-0012007-FKT0

(2010-06-26)
P.22 Follow ME DXF SW_Q3 change to 17-MF2N700-2G00

(2010-07-01)
P.21 For ME request SW_SW2,SW_SW3,SW_SW4,SW_SW5 change to 19-TME533K-1000

(2010-07-03)
P.21 For MOR request add SW_R3,SW_R4 to separete ASSIST and WIDI signal

(2010-07-05)
P.21 For ME request SW_CN6 change to 1N-0012008-FKT0

(2010-07-07)
P.22 SW_LED1 change to SW_LED1 (16-HT191NG-0000),SW_LED2 (16-HT191UD-0000)

(2010-07-12)
P.22 For MOR request add other power/suspend LED then add SW_LED3,SW_LED4,SW_R5,SW_R6
SW_Q4,SW_Q5,SW_Q6

(2010-07-13)
P.22 For layout space change SW_Q1,SW_Q2,SW_Q4,SW_Q5 from 17-DTC144E-UA00 to 17-DTC114E-E000
P.22 For layout space change SW_Q3,SW_Q7 from 17-MF2N700-2G00 to 17-2N7002W-0000

(2010-07-15)
P.22 SW_LED1 change from 16-HT191NG-0000 to 16-LC191JG-CT00

(2010-07-20)
P.22 SW_LED2 change from 16-HT191UD-0000 to 16-LTSTC19-1K01

(2010-07-22)
P.22 SW_LED1,SW_LED2 change to SW_LED2 16-LS115KF-LG00
P.22 SW_LED3,SW_LED4 change to 16-VSM106G-4700,16-LTSTC19-1K01

EVT2
2010/08/20
P.21 [DB CON] For MOR request change SW_WIDI#_DB from SW_SW3 to SW_SW4

2010/08/23
P.21 [DB CN] Follow ME connector list SW_CN6 change from 1N-0012008-FKT0 to 1N-0012008-FKT0

2010/08/27
P.22 [Power LED] SW_LED2 change from 16-LS115KF-LG00 to 16-LTSTS11-5T00

PVT
2010/11/29
P.04 [Power LED] For power standby LED issue at battery mode add SW_R11,SW_R12

MP
2011/01/05
P.03 [DB CONN] For M_F4 broken issue SW_CN6 pin11 GND change to NC

3
MP 2011/01/20
104 -- Power LED SW Change SW_R1 and SW_R12 from 1R-0000104-J200 to 1R-0000103-J200
Change SW_R5 and SW_R6 from 1R-0000151-J200 to 1R-0000101-J200
Change SW_R1 and SW_R2 from R-0000151-J200 to 1R-0000221-J200
Modify LED Brightness 01/20

2010/04/26
P.1 Add LID circuit

2010/05/03
P.1 Move MS/SD LED to MS/SD DB ,Delete L_R24,L_LED3

2010/05/04
P.1 Move Jack to speed DB

2010/05/07
P.1 Add current limit resistor L_R23,L_R24
P.1 For ESD add L_C18,L_C19
P.2 L_C17 change from 0.1uF to 100pF

2010/05/10
P.2 Follow 0426 Connector list change L_CN3 from 1N-0010000-F0T0 to 1N-0012002-FXT0
P.3 L_U21 change from 15-EC2648B-0000 to 15-EC2618N-0000

2010/05/17
P.2 L_CN3 Add 4pins for DMIC signal change 1N-0012002-FXT0 to 1N-0016001-F0G0
P.2 Add L_C6 for DMIC power L_+3VRUN

2010/05/20
For combine DB schemetic change DMIC_CLK/DAT to L_DMIC_CLK/DAT

2010/06/02
P.21 L_U1 follow MOR request pin1 wired to GND

2010/06/04
P.18 L_CN3 change to 1N-0018000-FXT0

2010/06/10
P.25 Add L_R2 separated L_GND and D_GND for MOR request

2010/06/11
P.23 Add L_Q2 for power/suspend LED BRIGHTNESS control

2010/06/12
P.22 Delete L_C17 for RF request

2010/06/14
P.22 Add W_GP1,W_GP2 follow MOR request
P.22,P23 Follow MOR request change L_MEDIA# to L_MEDIA
P.22 Follow MOR request move L_D1,L_C3 from MB to LED DB

2010/06/15
P.22 Change W_GP1,W_GP2 to L_GP1,L_GP2

2010/06/16
P.24 Follow ME connector list L_U21 change from 15-EC2618N-0000 to 15-MRSS22L-0000
P.22 Follow ME connector list L_CN3 change from 1N-0018000-FXT0 to 1N-0018000-FKT0
P.22 Change L_GP1,LGP2 to L_R4,L_R3

2010/06/18
P.23 Follow MOR spec L_LED1 change from 16-LTSTS32-1K00 to 16-LTSTS32-1K00

2010/06/23
P.23 Follow EMI suggestion add M_VR1,M_VR2,M_VR7

2010/06/25
P.23 Move L_C2 to switch DB,then delete power_LED,SUSPEND_LED signal
P.24 Move L_LED4,L_R385,L_R384,L_Q24,L_Q25,L_Q2,L_C19,L_C18 to switch DB

2010/06/26
P.24 L_Q1 change to 17-MF2N700-2G00

2010/07/01
P.23 L_SW1 change to 19-MSS30TR-1000

2010/07/03
P.25 LID Switch pull high power change from L_+ECVCC to L_+3VALW

2010/07/05
P.23 L_CN3 change to 1N-0012008-FKT0 then change pin define

2010/07/20
P.24 L_Q1 change from 17-MF2N700-2G00 to 17-ME2N700-2E01

2010/07/21
P.25 L_U21 change to 15-EC2618N-0000
P.24 L_Q1 change to 17-ME2N700-2E00

EVT2

2010/08/03
P.24 [LED] For BOM need change L_LED0 to L_LED3

2010/08/13
P.24 [LED] For MOR request change L_LED2 from 16-LTSTS32-1K02 to 16-LTSTS32-1K01

2010/08/16
P.23 [LED DB CN] For MOR request L_D1 change from 16-BD4148F-PT00 to 19-MLVS060-5000
P.23 [LED DB CN] For MOR request delete L_C3

2010/08/23
P.23 [DB CN] Follow ME connector list L_CN3 change from 1N-0012008-FKT0 to 1N-0012008-FKT0

DVT

2010/09/10
P.23 [DB CN] On/Off direction of Wireless Switch is reversed, after LED board is assembled in the mechanical bottom housing.L_R4 changed to 'NO Staff'.
L_R3 changed to 'Staff'.

2010/10/15
P.05 [DB CN] For RF request L_R1 change from 19-MLVS060-5000 to 19-MMS0523-4B00

2010/11/29
P.08 [Digital Mic] For SI overload test fail change L_R1 from 100ohm to 0ohm,add L_C7,L_C8

2010/11/30
P.06 [LED] For EMI test fail L_VR1,L_VR2,L_VR7 change from NC to mount,L_Q1 change from 17-ME2N700-2E00 to 17-2N7002E-SF00

2011/01/20
P.06 [LED] Change L_R23 and L_R24 from 1R-0000151-J200 to 1R-0000331-J200 adjust LED brightness

4

(2010/05/03)

P.1 Delete speed led(LED3), delete R11
P.1 Add NUM LED,SCR LED, CAP LED

(2010/05/04)

P.1 Add Jack circuit
P.1 S_CN1 change to 1N-0010001-F0T0(10pin)

(2010/05/07)

P.2 For current limite add S_R8-S_R10
P.2 For save space delete S_VR5,S_VR7,S_VR8 HHP/N(19-VP0RT06-5001)
P.3 To avoid misapprehens active change S_C1 from 1C-2B20104-K100 to 1C-2B20101-K600
P.3 S_CN1 place the S_+3VRUN to pin1
P.1 S_C13 size change from 0603 to 0402
P.1 Delete S_VR9

(2010/05/11)

P.3 S_CN1 pin10 change to A_GND for headphone

(2010/05/12)

P.01 Follow MOR request light sensor change from 15-BH1690F-0000 to 15-BH1600F-0000

(2010/05/13)

P.03 S_CN1 change from 10pin 1N-0010001-F0T0 to 12pin 1N-0012004-F0T0

P.03 Add digital microphone module S_U3,S_C2,S_R12

(2010/05/17)

P.03 S_CN1 change from 12pin 1N-0012004-F0T0 to 10pin 1N-0010001-F0T0

P.04 Move digital microphone Block S_U3,S_C2,S_R12 from Speed DB to LED DB

(2010/05/22)

P.03 Add light sensor mode setting
P.02 For ME connector list change S_LED4,S_LED5&S_LED7 from 16-LC191KF-CT00 16-LTSTS32-1K02

(2010/05/24)

P.01 Follow ME request move PC_ODD_EJECT_SW from Switch DB to Speed DB

(2010/05/25)

P.21 Add S_Q1 for MOR request EC control keyboard LED brightness

P.20 For MOR request EC control keyboard LED brightness S_CN1 pin fewer than spec change from 1N-0010001-F0T0 to 1N-0012002-F0T0

(2010/06/03)

P.22 For ME request change S_CN1 from 1N-0012002-F0T0(12pin) to 1N-0018002-FKG0(18pin)
P.24 For MOR request change light sensor circuit

(2010/06/04)

P.22 For ME request change S_CN1 from 1N-0012002-F0T0(12pin) to 1N-0018000-FXT0(18pin)

(2010/06/08)

P.25 For ME request change S_CN5 from 2N-0006006-FKG0 to 2N-000500A-FKG0

(2010/06/10)

P.29 Add S_R12 pull high S_HP_IN_5 for MOR request

(2010/06/11)

P.26 change S_CN1 pin define for headphone S_HP_IN_5 signal pull high to S_VDDA

(2010/06/16)

P.26 S_CN1 ME have change from 1N-0018000-FXT0 to 1N-0018000-FKTO
P.28 Follow MOR request move S_R2(1R-0000684-J200),S_C13(1C-2B20105-K200) to MB

(2010/06/17)

P.29 Follow MOR request move S_HP_IN_5 signal pull up resistor S_R12 to MS/SD DB to save speed DB connector pin
P.26 S_CN1 delete S_VDDA pin then change pin define

(2010/06/18)

P.27 Follow MOR spec S_LED4,S_LED5,S_LED7 change from 16-LTSTS32-1K00 to 16-LTSTS32-1K00

(2010/06/22)

P.28 Follow MOR spec Page Connector for ILLUMI_GAIN1 & 2 change from bidirection to input
P.28 Follow MOR spec Page Connector for S_OPT_SEMS change to output
P.28 Follow MOR suggestion S_R2,S_C13 change to NC
P.28 Follow MOR suggestion add S_R3

(2010/06/23)

P.27 Follow EMI suggestion add S_VR1,S_VR2,S_VR3,S_VR4

(2010/06/24)

P.27 Follow ME request S_LED4,S_LED5,S_LED7 change to 16-HT170UY-G000

(2010/06/26)

P.28 For ME DXF S_Q1 change to 17-MF2N700-2G00
P.30 For ME connector list change S_CN5 from 2N-000500A-FKG0 to 2N-0006013-FKG0

(2010/07/01)

P.27 For ME request change S_SW1 to 19-MSS30TR-1000
P.27 For ME request change S_SW2 to 19-TME533K-1000

(2010/07/05)

P.27 For ME request change S_CN1 to 1N-0018003-FKTO
P.30 For MOR request add F_D1

2

(2010/07/07)

P.27 For MOR request change S_CN1 pin define

(2010/07/08)

P.27 For MOR request put headphone signal to S_CN2

(2010/07/10)

P.27 For MOR request put change S_CN1(1N-0012008-FKTO),S_CN2(1N-0006000-FXT0) to S_CN1(1N-0018000-FKTO)
then change S_CN1 pin define to separate normal signal and headphone signal
P.30 For MOR request headphone use cable add S_CN5(1N-0004000-F0G0) delete headphone jack 2N-0006013-FKG0

(2010/07/13)

P.28 For layout request S_Q1 change from 17-MF2N700-2G00 to 17-2N7002W-0000
P.27 S_CN1 change pin define

(2010/07/14)

P.27 Follow ME connector list change S_CN1 from 1N-0018000-FKTO to 1N-0018003-FKTO

(2010/07/15)

P.27 For layout request change S_CN1 pin define

(2010/07/20)

P.28 For PUR suggestion S_LED4,S_LED5,S_LED7 change from 16-HT170UY-G000 to 16-VSM126G-2700
P.30 S_CN5 for ME request change to headphone jack 2N-000500A-FKG0
P.30 S_CN5 for ME request change from 2N-000500A-FKG0 to 2N-000500C-FKG0

(2010/07/21)

P.27 S_CN1 change pin define
P.15 Follow MOR suggestion add M_Q36 then delete M_R32

EVT2

2010/08/20

P.29 [Light sensor] For MOR request S_U2 pin7 change from GND to NC

2010/08/25

P.27 [DB CN] S_CN1 change from 1N-0018003-FKTO to 1N-0018003-FXG0

DVT

2010/09/21

P.29 [Light sensor] Light sensor circuit change follow V050

2010/11/30

P.10 [LED Speed] For EMI request change S_VR1,S_VR2,S_VR3 from NC to mount
P.12 [Head phone jack] For EMI request change S_D1(16-SD103AW-S000) to 19-MLVS060-5000t

2010/12/01

P.10 [LED Speed] For EMI KB LED Function issue add S_VR6

MP

2010/12/24

P.12 [Audio Headphone] Speaker has noise when power up S_R11 change from munt to NC
P.10 [LED] For factory issue change S_LED4,S_LED5,S_LED7 from 16-VSM126G-2700 to 16-LTSTC17-0K02

2010/04/26

P.1 Change F_SW2&F_SW3 to 19-TME533S-1000

2010/05/03

P.1 Add T_CN4

2010/05/04

P.1 T_CN1 change to 1N-0008002-F0T0(8pin)

2010/05/07

P.1 For the cost and space reason change T_CN4 from 1N-0020008-FKG0 to 1N-0008000-FXT0
P.1 0603 capcotor is absent chane T_C509,T_C514 from 1C-2N30101-J001 to 1C-2N20101-J640

P.1 Add T_C1 for EMI

2010/05/12

P.1 Delete signal FP_DET#

2010/06/16

P.30 T_CN4 ME have change from 1N-0008000-FXT0 to 1N-0020006-FKG0

P.30 Follow MOR request add 0ohm T_R1,T_R2

2010/06/23

P.30 Follow ME connector list T_CN1 change to 1N-0012007-FKT0

P.30 Follow ME connector list T_CN4 change to 1N-002000K-FKG0

2010/06/28

P.31 T_CN1 change from 12pin to 10pin

2010/06/29

P.31 T_CN1 change from 1N-0010005-FKT0 to 1N-0010001-F0T0

2010/07/01

P.31 For ME request T_SW2,T_SW3 change to 19-TME533K-1000

P.31 For ME request T_CN1 change to 1N-0010005-FKT0

2010/07/08

P.31 For PUR suggestion T_C509,T_C514 change to 1C-2N20101-J000

2010/07/10

P.31 T_CN4 change to 1N-001000D-FKG0

2010/07/13

P.31 For layout request T_VR1,T_VR2 change from 19-MLVS060-5000 to 19-VP0RT04-5002

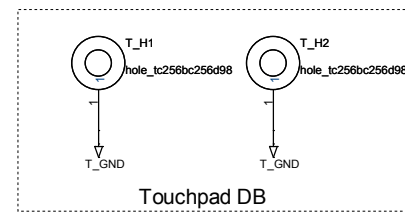
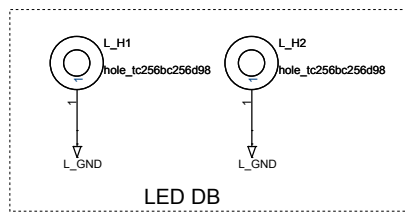
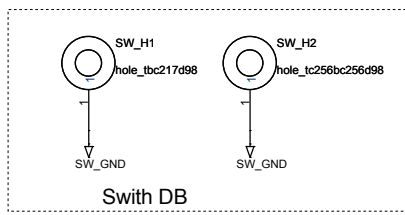
DVT2

2010/09/18

P.31 For ME request T_CN1 change from 1N-0010005-FKT0 to 1N-0010009-FXG0

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Size A3	Document Number V030 MP		Rev 1.1
Date:	Thursday, January 20, 2011	Sheet 18 of	19



2010.10.29
Delete SW_H4(1X-HOLE000-0543)
for ME change

