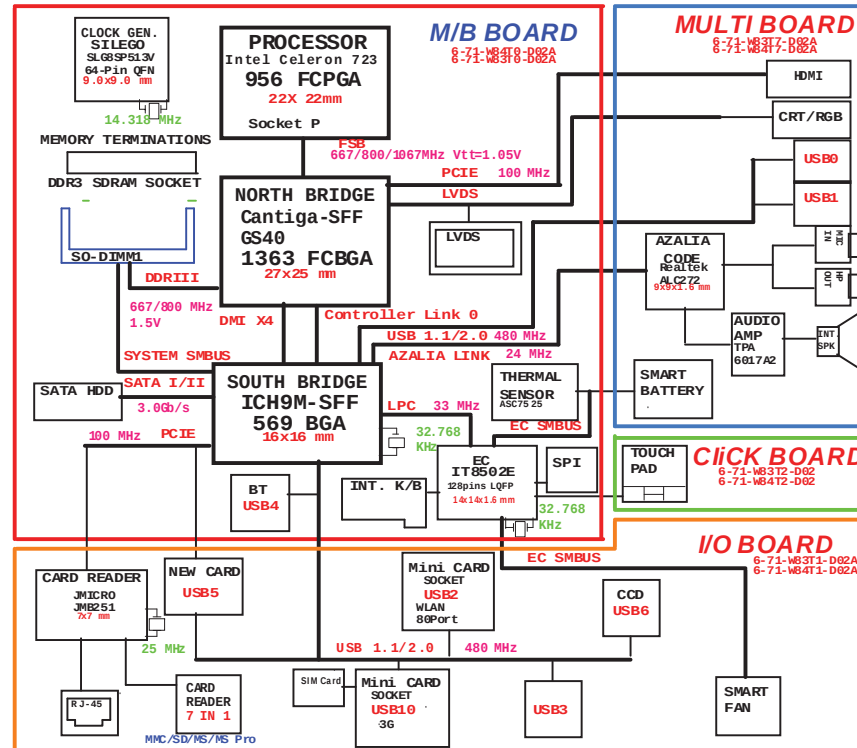


System Block Diagram

Sheet 1 of 46
System Block
Diagram

CLEVO W830T/W840T System Block Diagram



W830T MB BOARD
CPU, NB, SB, EC, LCD, RAM, HDD BLUETOOTH, K/B
6-71-W83T0-D02A 6-71-W84T0-D02A
W830T I/O BOARD
New Card, Lan, WLAN, 3G, Card Reader, CDD, Fan, USB3
6-71-W83T1-D02A 6-71-W84T1-D02A
W830T MULTI BOARD
MIC, SPK, DC_IN, HDMI BATTERY, USB0, USB1
6-71-W83T7-D02A
W840T MULTI BOARD
MIC, SPK, DC_IN, HDMI BATTERY, USB0, USB1
6-71-W84T7-D02A
W830T CLICK BOARD
Click Conn, LED
6-71-W83T2-D02
W840T CLICK BOARD
Click Conn
6-71-W84T2-D02
VCORE
1.5V/1.5V/0.75V
1.8V/1.05V
VGF_X_CORE
5V/3V/3.3V/5V
VDD3/VDD5
AC_IN, CHARGE

<http://hobi-elektronika.net>

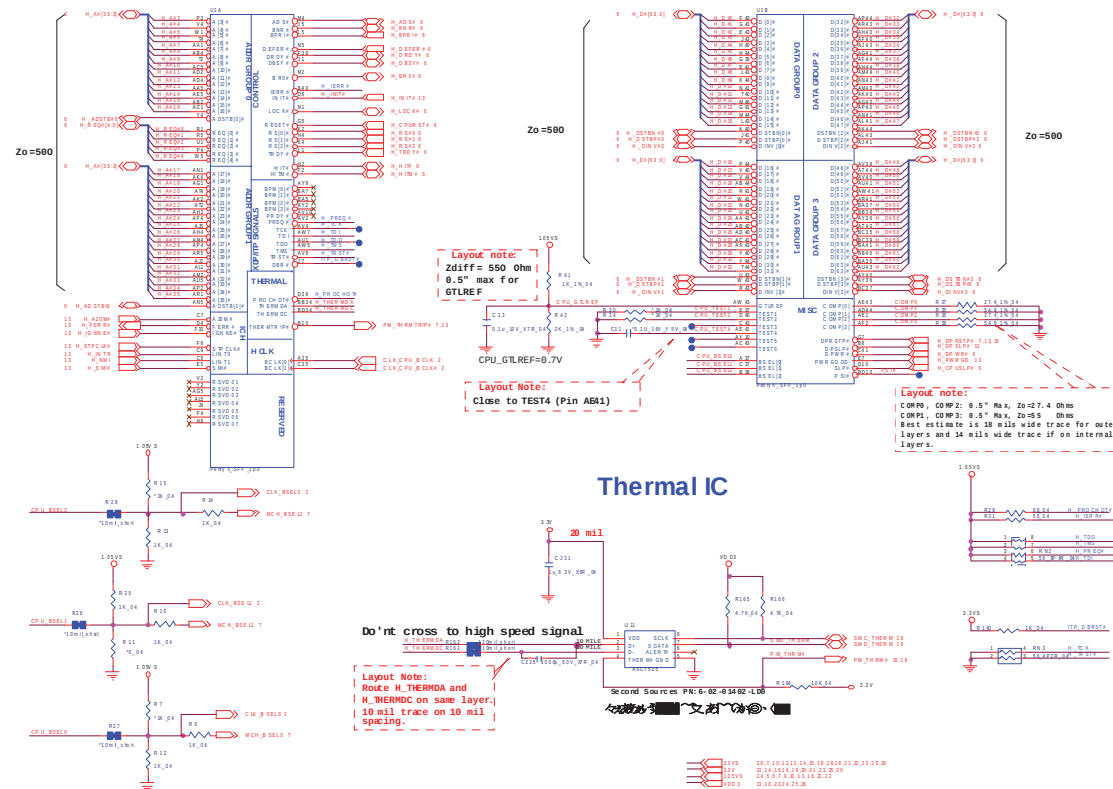
Sheet 2 of 46
Clock Generator



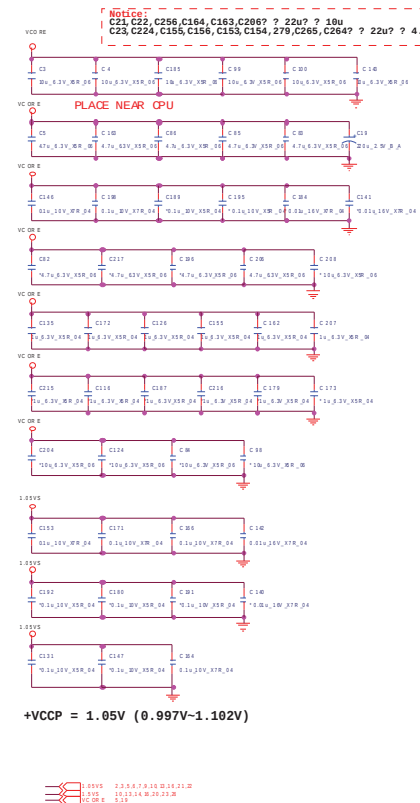
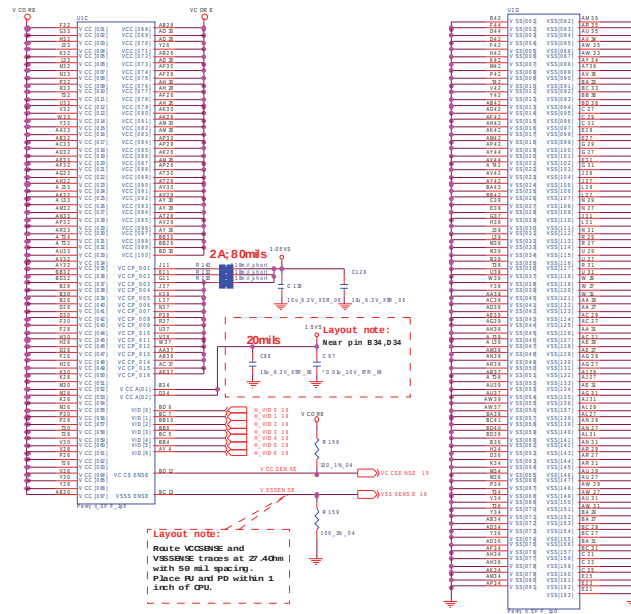
FSLC	FSLB	FSLA	CKS05	
BSEL 2	BSEL 1	BSEL 0	Host Clock Frequency	
0	0	0	266 MHz	1066 MHz
0	1	0	200 MHz	800 MHz
0	1	1	166 MHz	667 MHz

P1r64/53	P1r16/29	P1n31/32	P1n34/35	P1n48/47	P1n37/38	P1n11/42
SR8	SR2	SR3	SR4	SR6	SR0	SR10
NEW_CARD	CLK_SATA#	PCIE_TOH	PCIE格兰	PCIE_CR	PCIE_WLAN	PCIE_XPPLL
P1r61				P1n50	P1r09	P1n40
CRF_H				CRF_E	CRF_G	CRF_H
NEW_CARD_REQ#				LAN_CLKREQ#	WLAN_CLKREQ#	MCH_CLK_REQ

Sheet 3 of 46
Penryn SFF 1/3



Penryn SFF 2/3



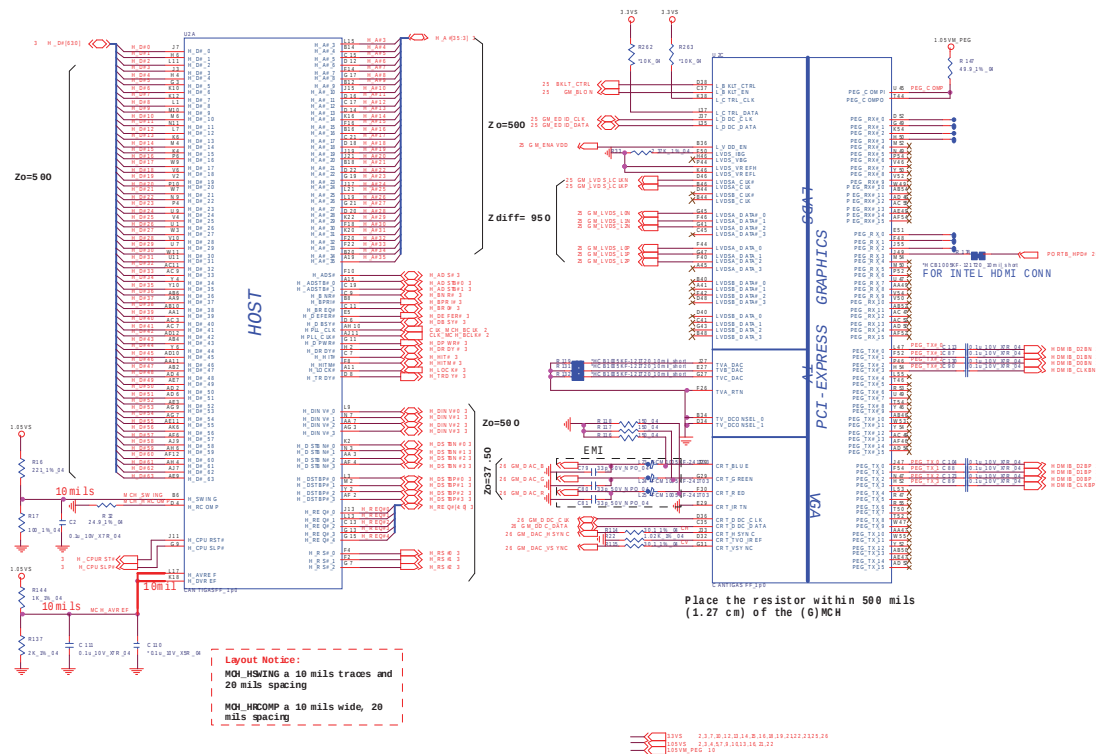
Sheet 4 of 46
Penryn SFF 2/3

B.Schematic Diagrams

<http://hobi-elektronika.net>



Cantiga SFF 1/6, PEG

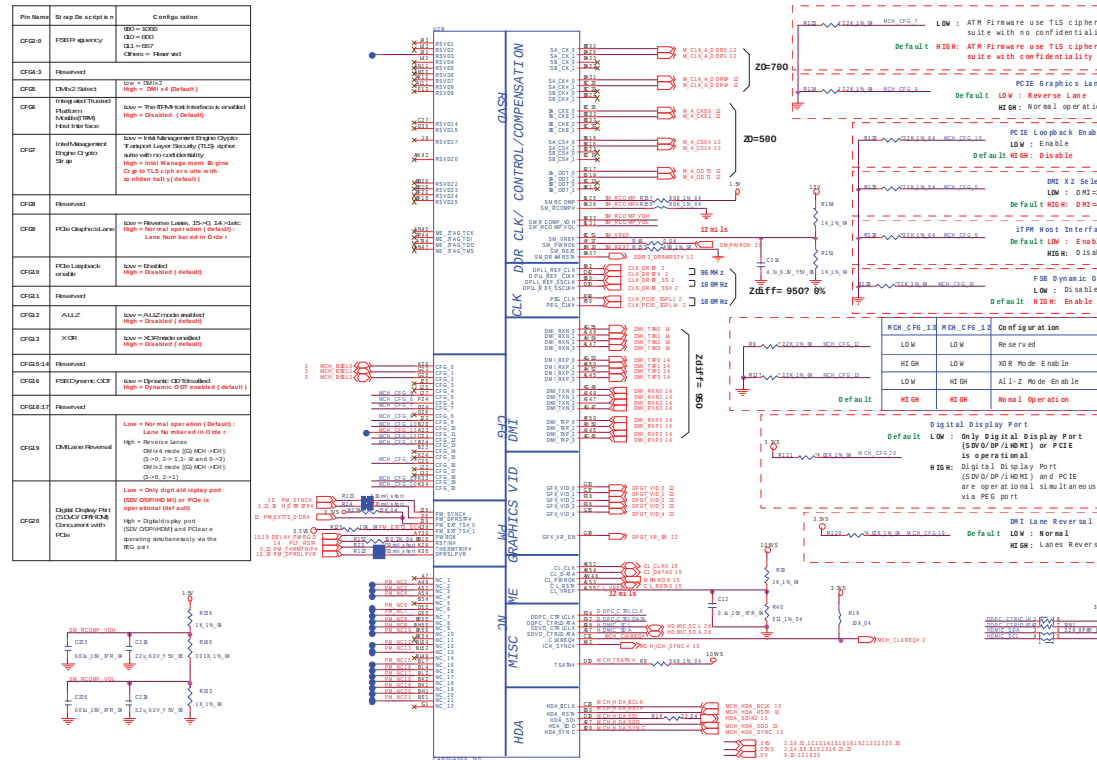


Sheet 6 of 46
Cantiga SFF 1/6,
PEG

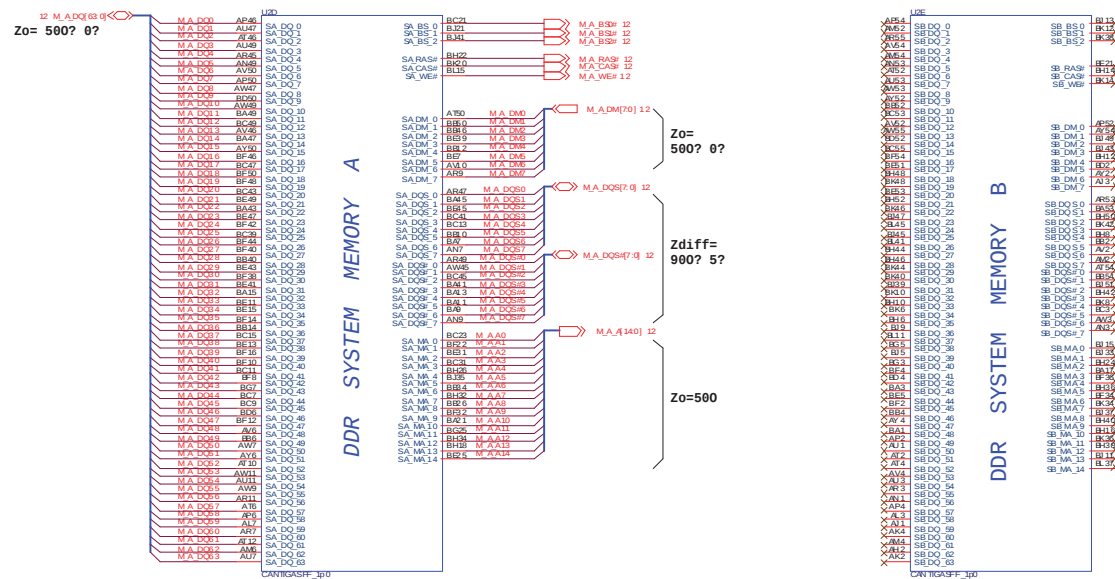
Schematic Diagrams

Cantiga SFF 2/6, CLK

Sheet 7 of 46
Cantiga SFF 2/6,
CLK



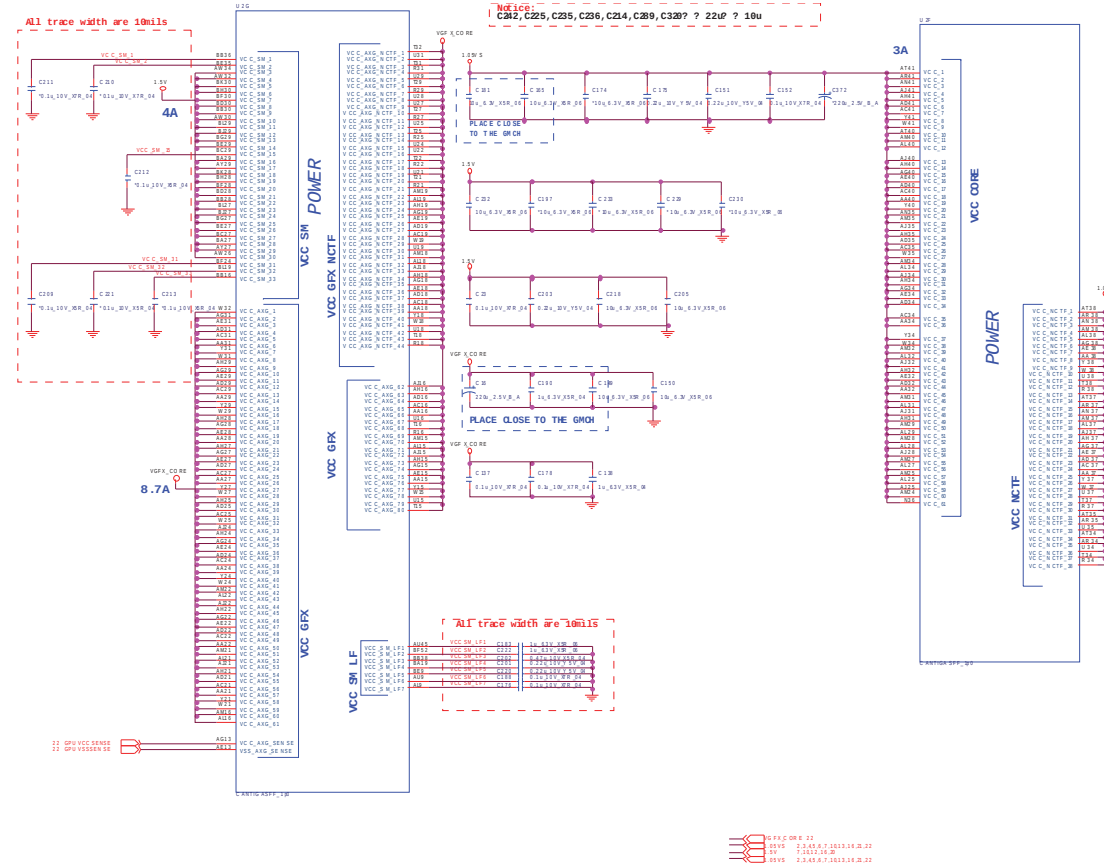
Cantiga SFF 3/6, DDR



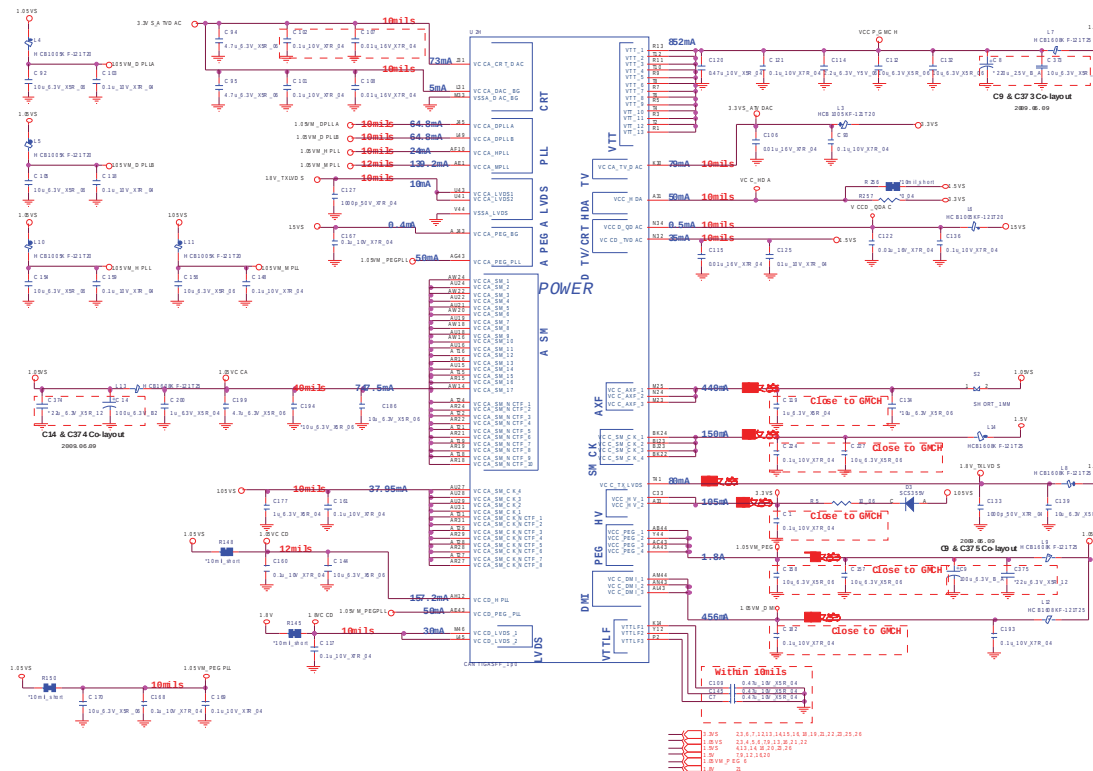
Sheet 8 of 46
Cantiga SFF 3/6,
DDR

Cantiga SFF 4/6, Power 1

Sheet 9 of 46
Cantiga SFF 4/6,
Power 1



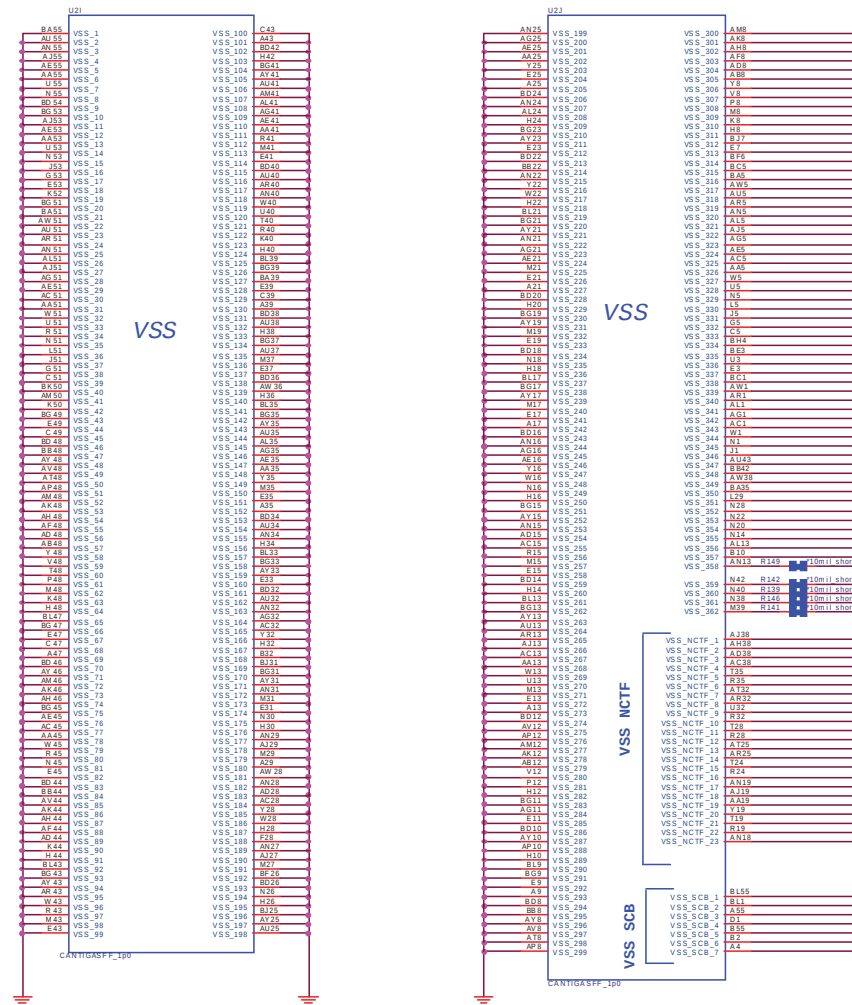
Cantiga SFF 5/6, Power 2



Sheet 10 of 46
Cantiga SFF 5/6,
Power 2

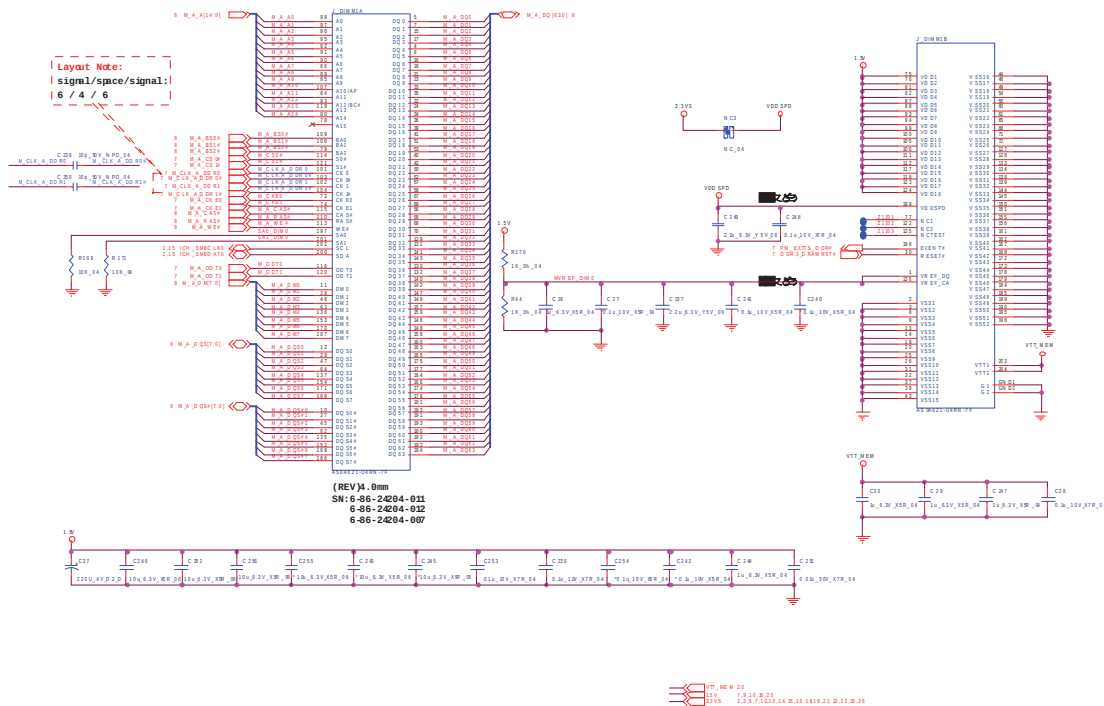
Cantiga SFF 6/6, GND

Sheet 11 of 46
Cantiga SFF 6/6,
GND



DDR3 So-DIMM_0

SO-DIMM 0

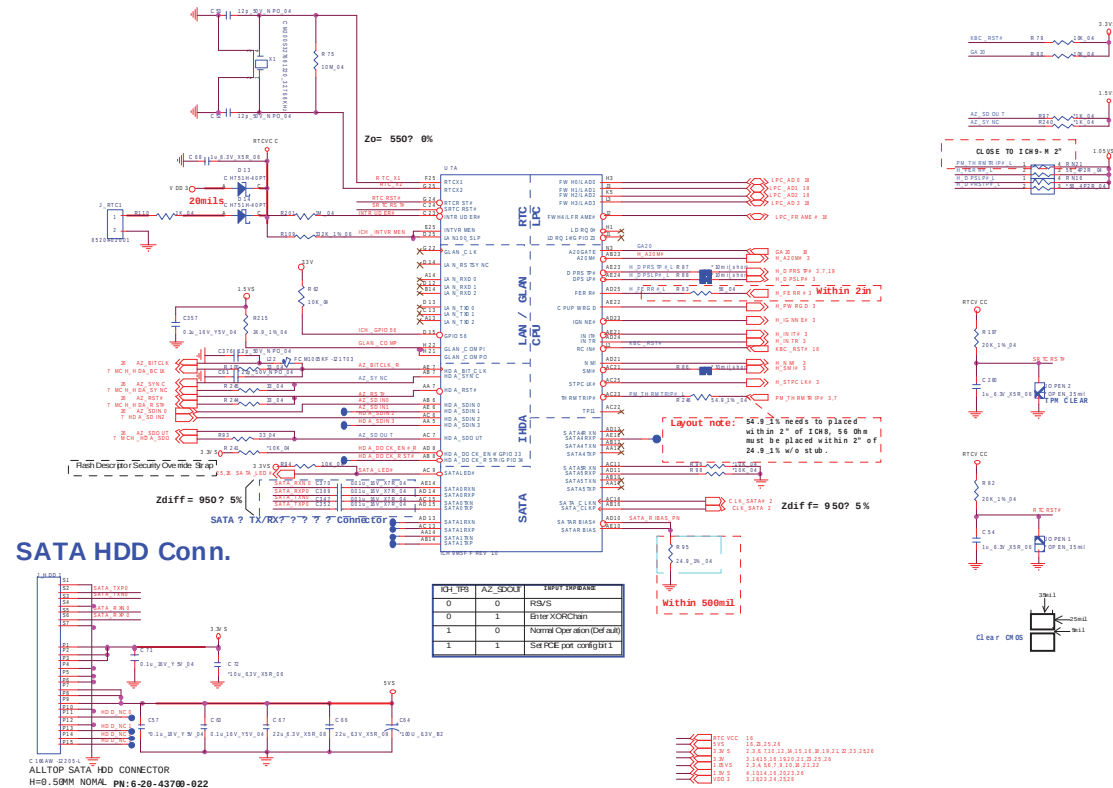


Sheet 12 of 46
DDR3 So-DIMM_0

Schematic Diagrams

ICH9-M SFF 1/5, SATA, HDD CON

Sheet 13 of 46
ICH9-M SFF 1/5,
SATA, HDD CON



ICH9-M SFF 2/5, PCI, USB

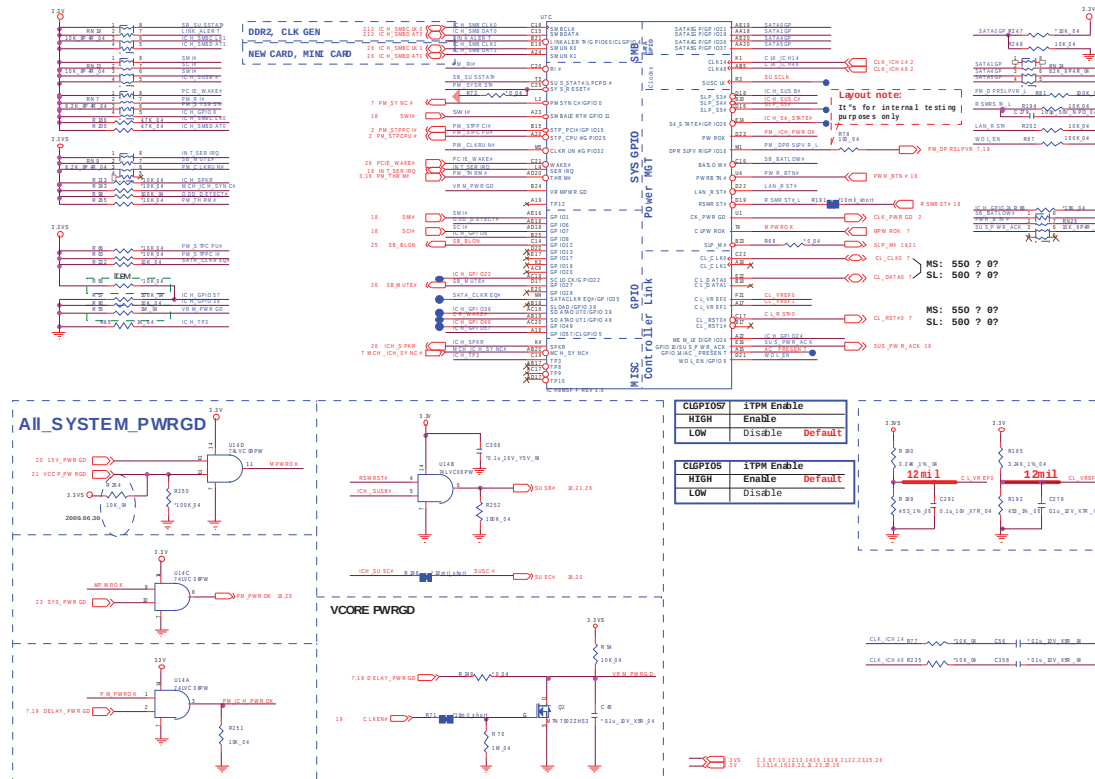


Sheet 14 of 46
ICH9-M SFF 2/5,
PCI, USB

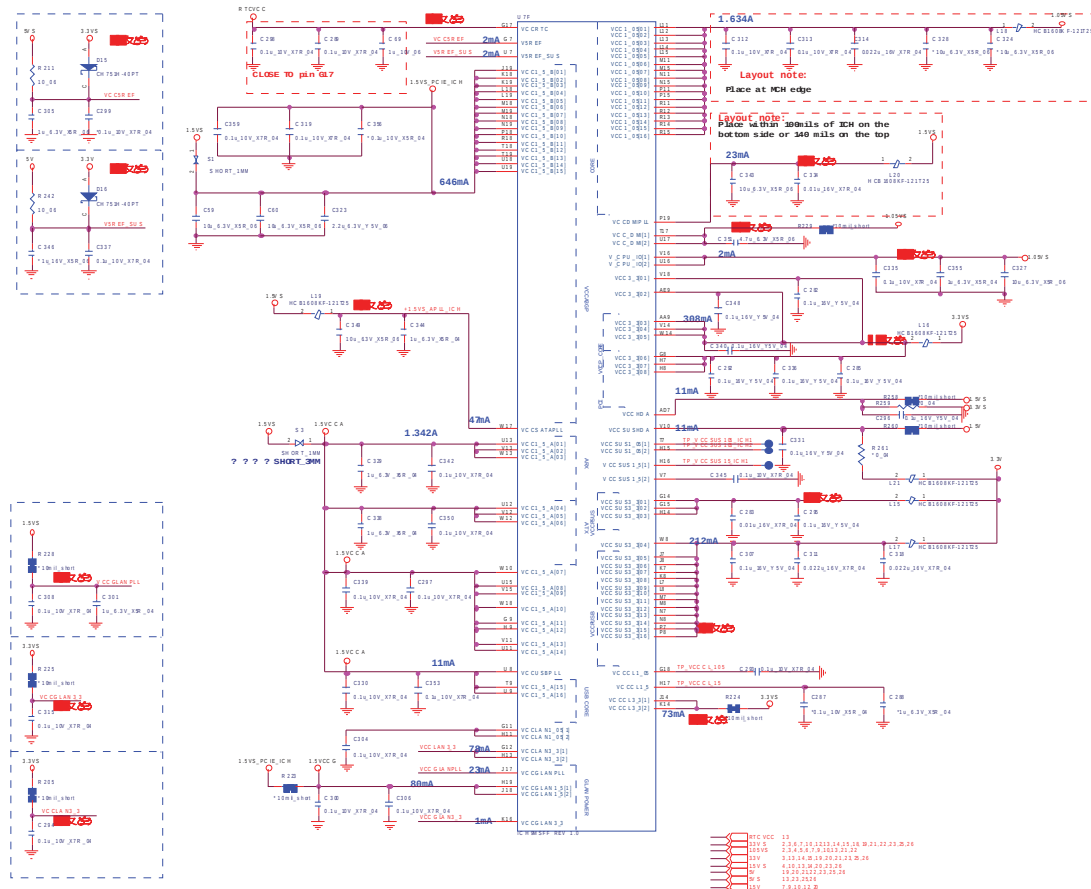
Schematic Diagrams

ICH9-M SFF 3/5, GPIO

Sheet 15 of 46
ICH9-M SFF 3/5,
GPIO



ICH9-M SFF 4/5, Power

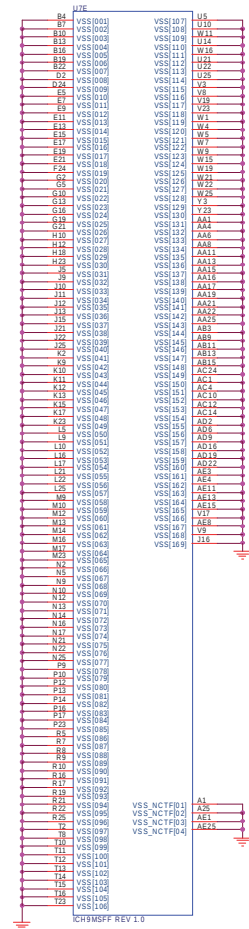


Sheet 16 of 46
ICH9-M SFF 4/5,
Power

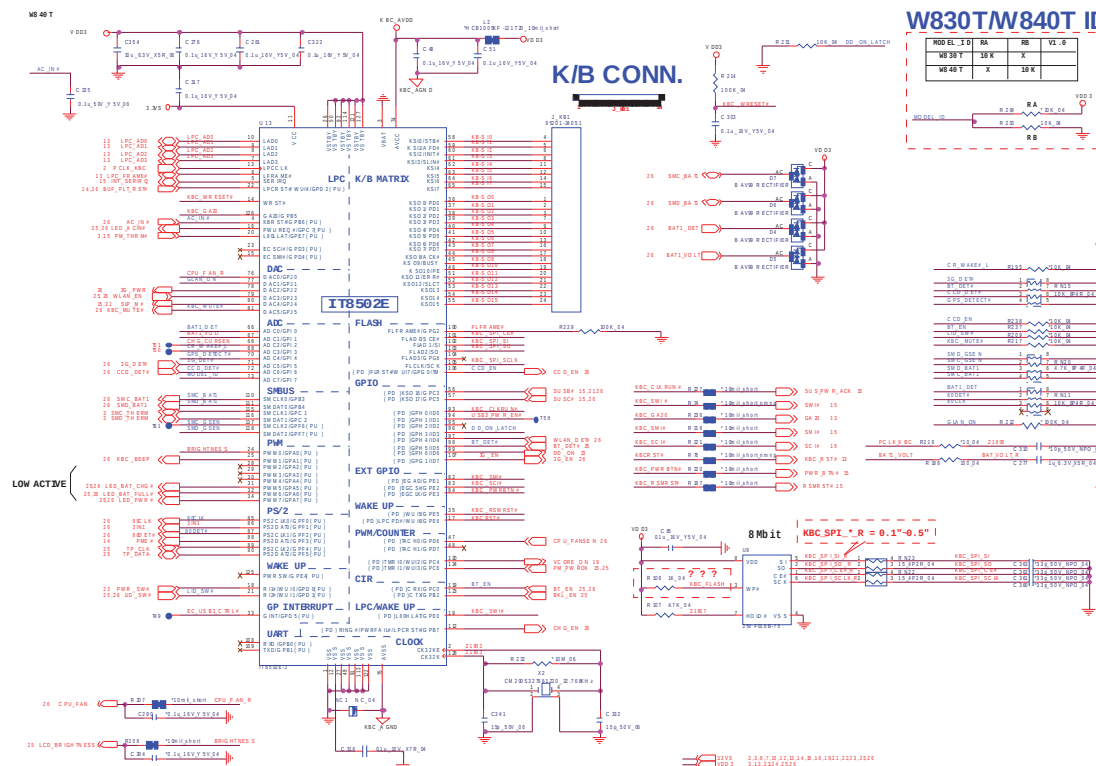
Schematic Diagrams

ICH9-M SFF 5/5, GND

Sheet 17 of 46
ICH9-M SFF 5/5,
GND



EC KBC-ITE IT8502E

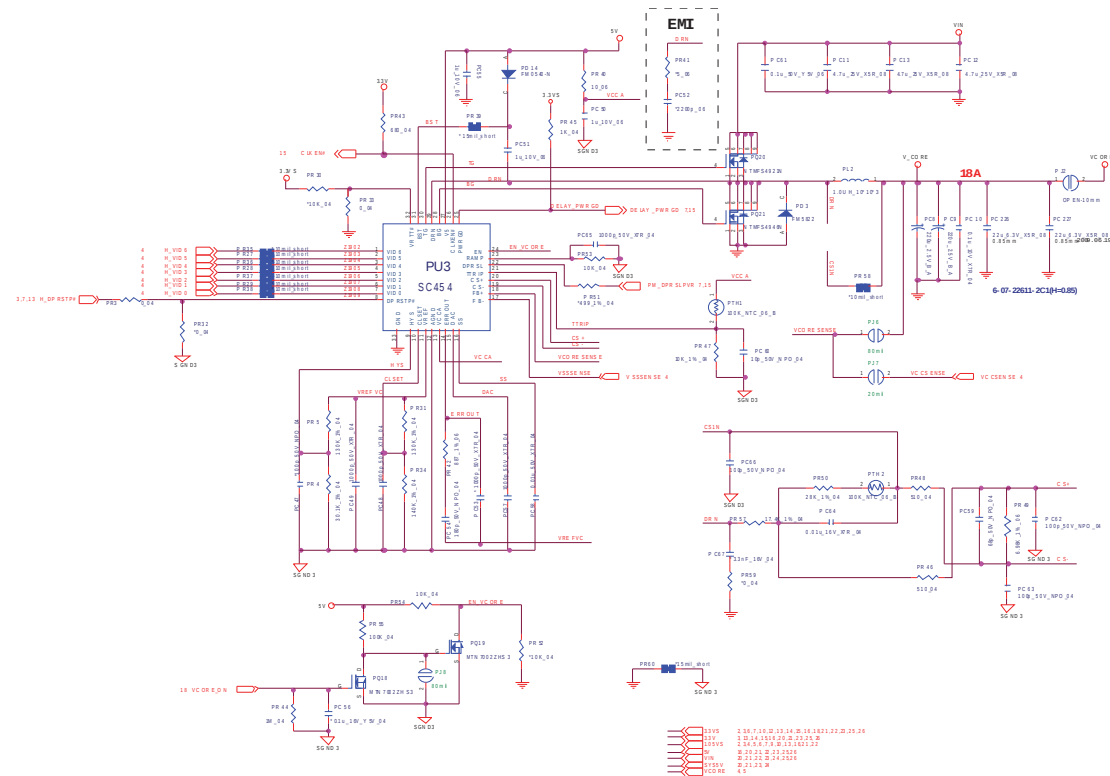


Sheet 18 of 46
EC KBC-ITE
IT8502E

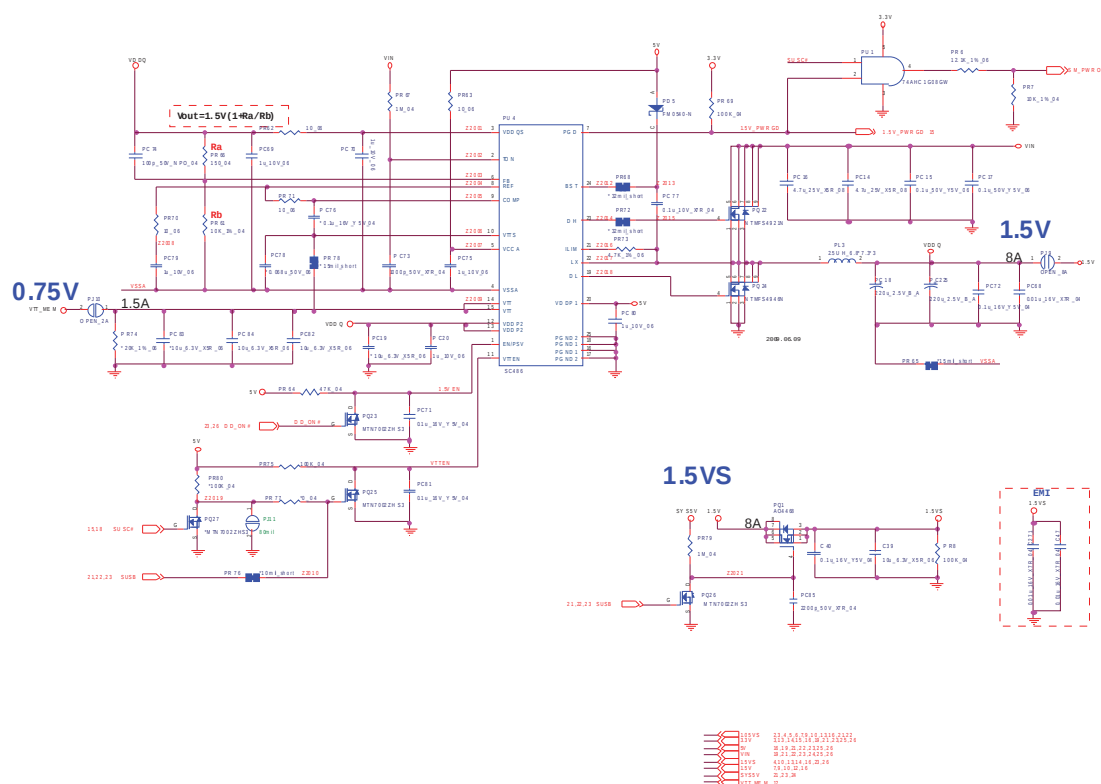
Schematic Diagrams

Power VCore

Sheet 19 of 46
Power VCore

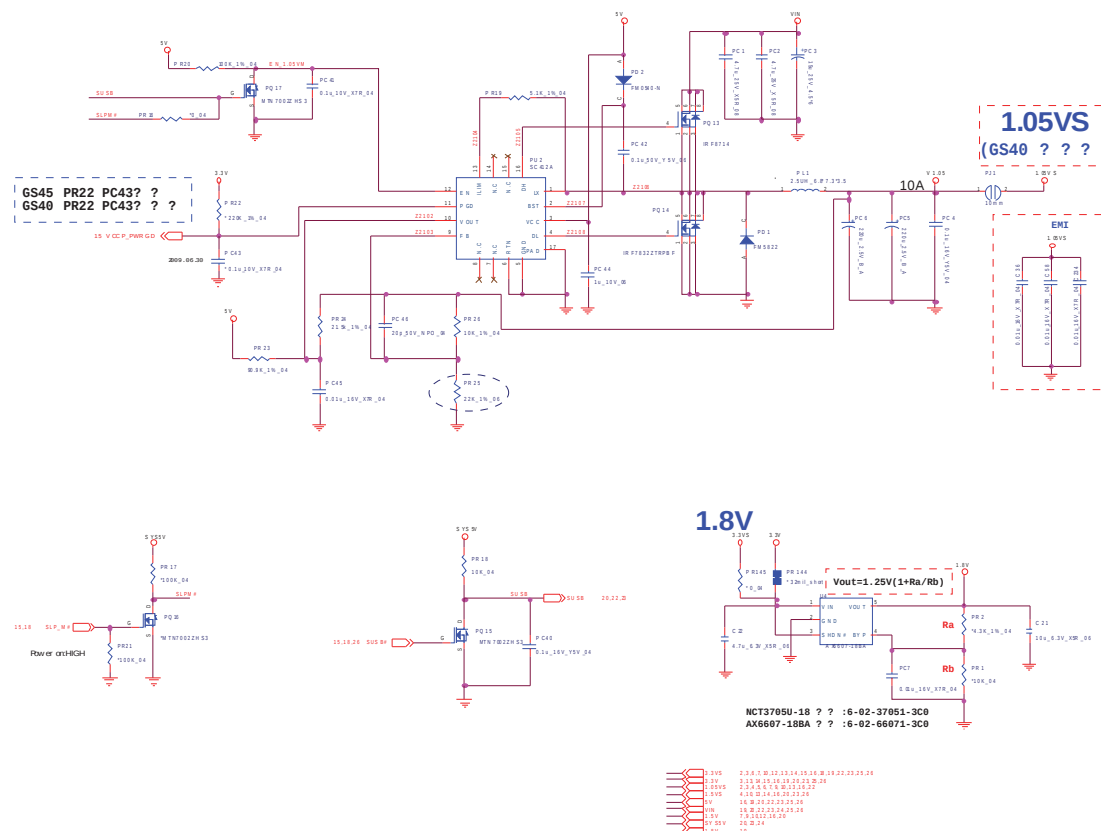


Power 1.5V/0.75V/1.5VS

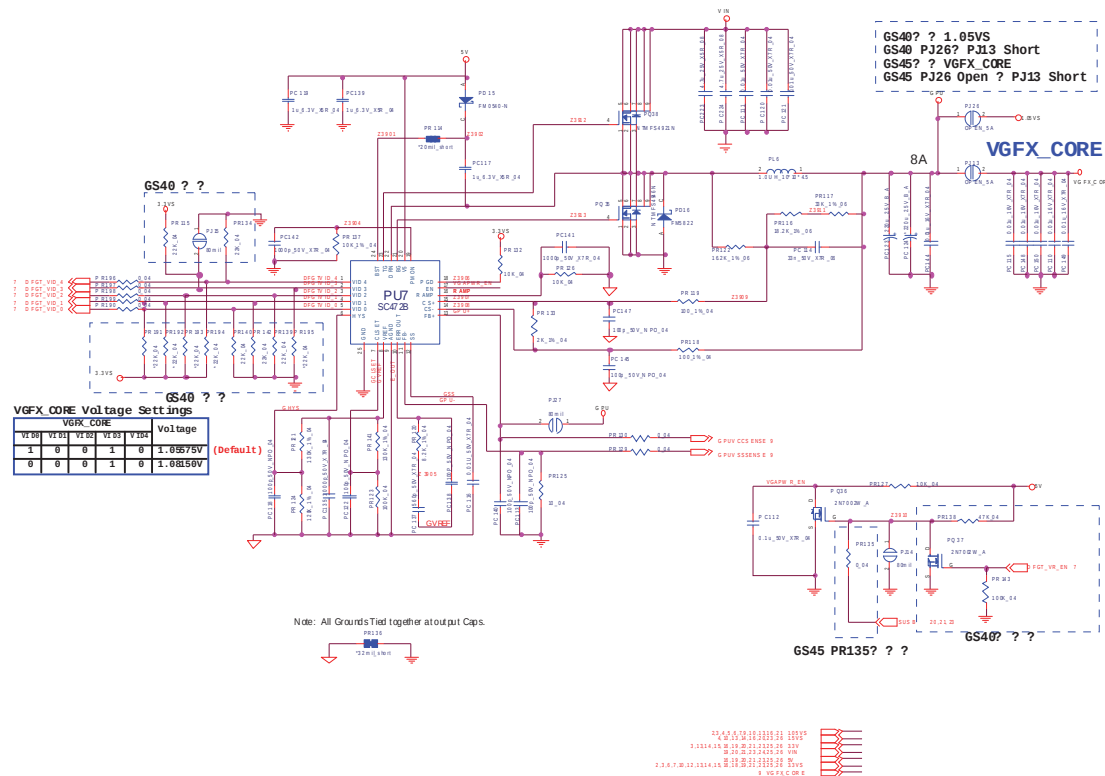


Sheet 20 of 46
Power 1.5V/0.75V/
1.5VS

Sheet 21 of 46
Power 1.8V/1.05VS

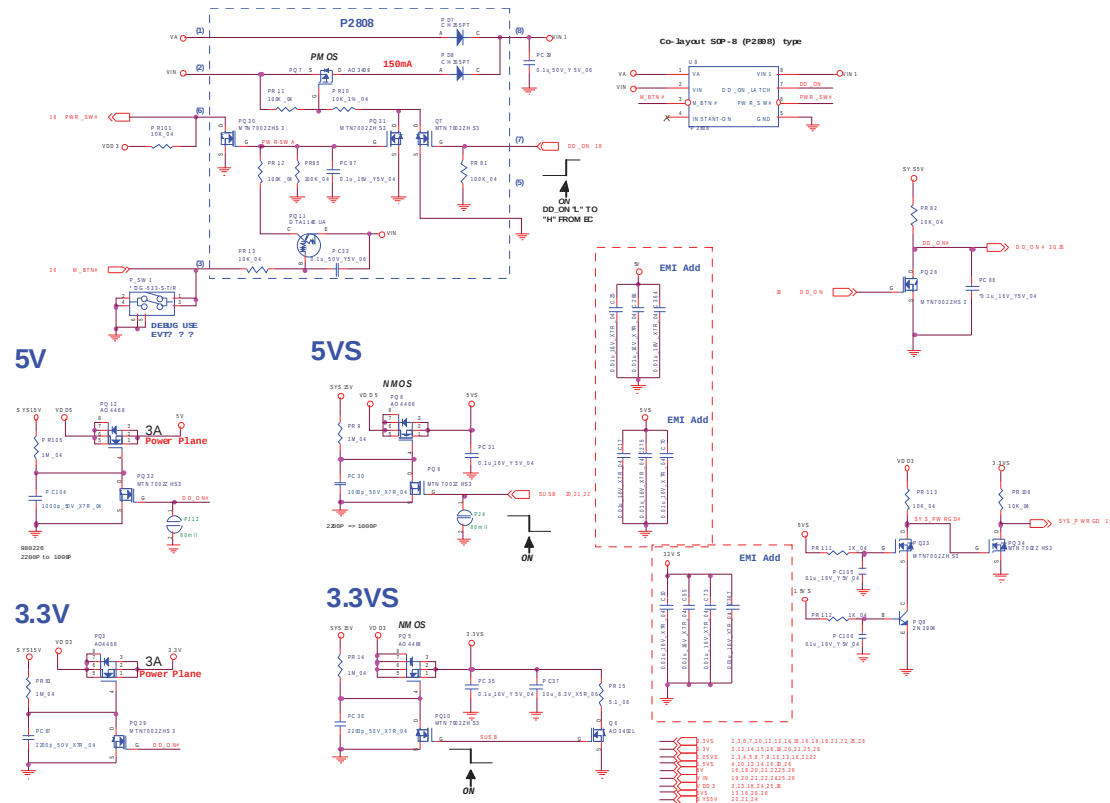


Power VGA GPU (VGFX_Core)

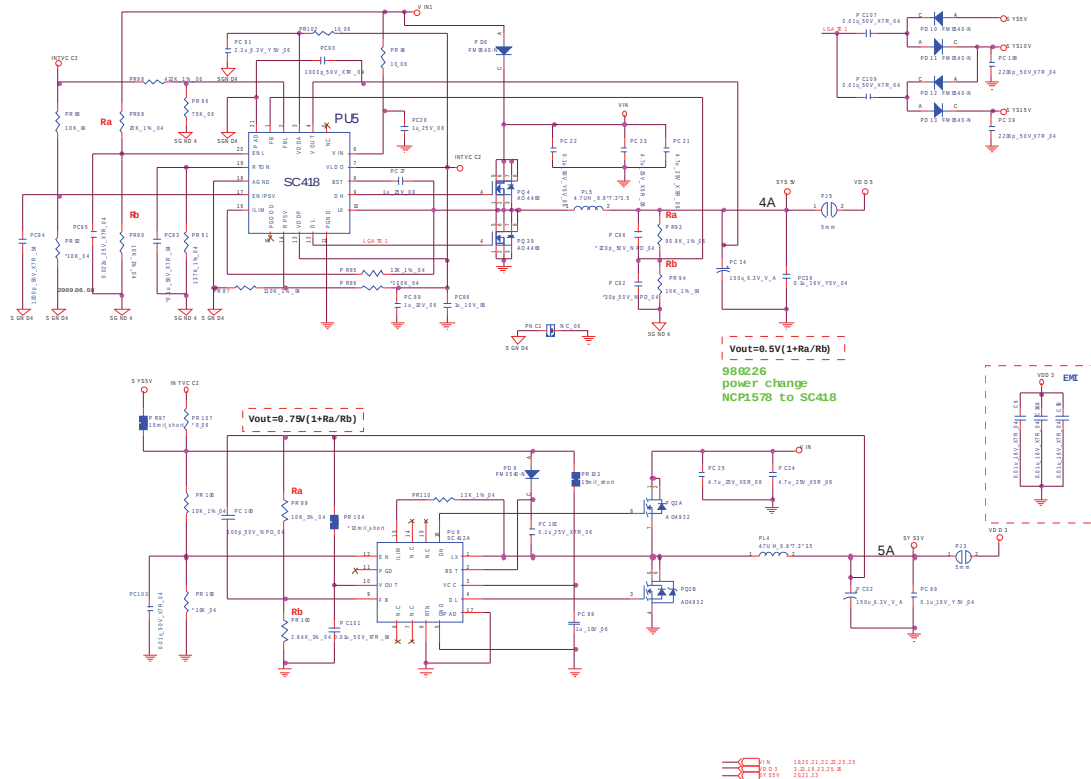


Sheet 22 of 46
Power VGA GPU
(VGFX_Core)

Sheet 23 of 46
Power 5VS, 3VS,
3.3V, 5V



Sheet 24 of 46
Power VDD3/VDD5

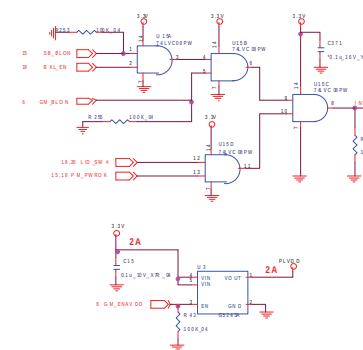
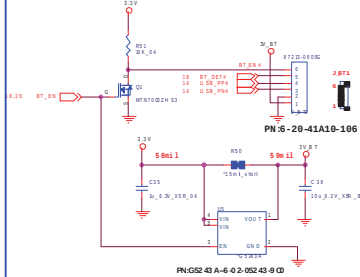


Schematic Diagrams

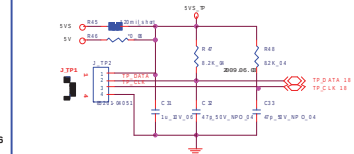
LCD/CCD/Click/BT Conn

Sheet 25 of 46
LCD/CCD/Click/
BT Conn

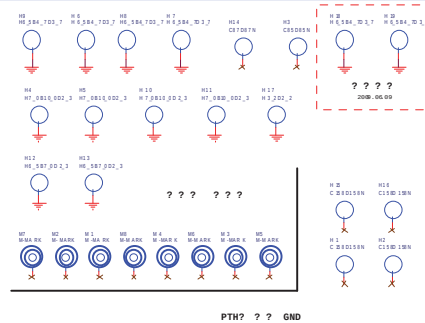
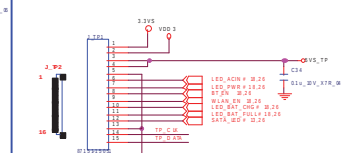
LCD PANEL BACKLIGHT

Bluetooth CONN
(USB Port4)

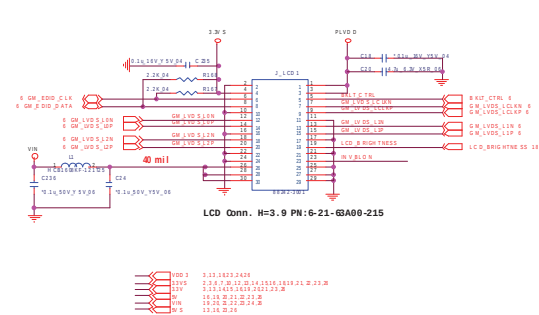
W840T CLICK CONN



W830T CLICK/LED CONN

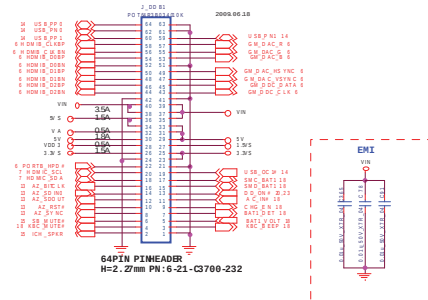


LCD PANEL CONN

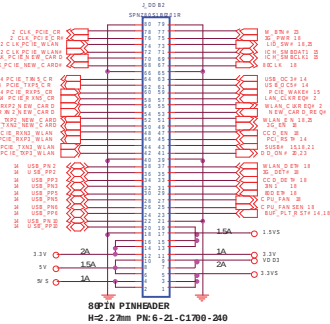
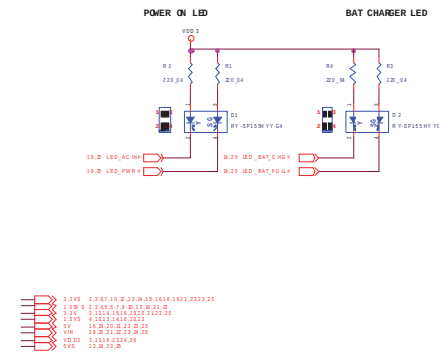
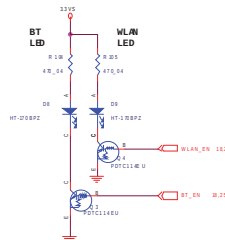
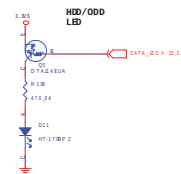


To Multi, I/O Conn, W840T LED

MULTI Board CONN.



I/O Board CONN.

W840T LED
(W830T LED? ? ?)

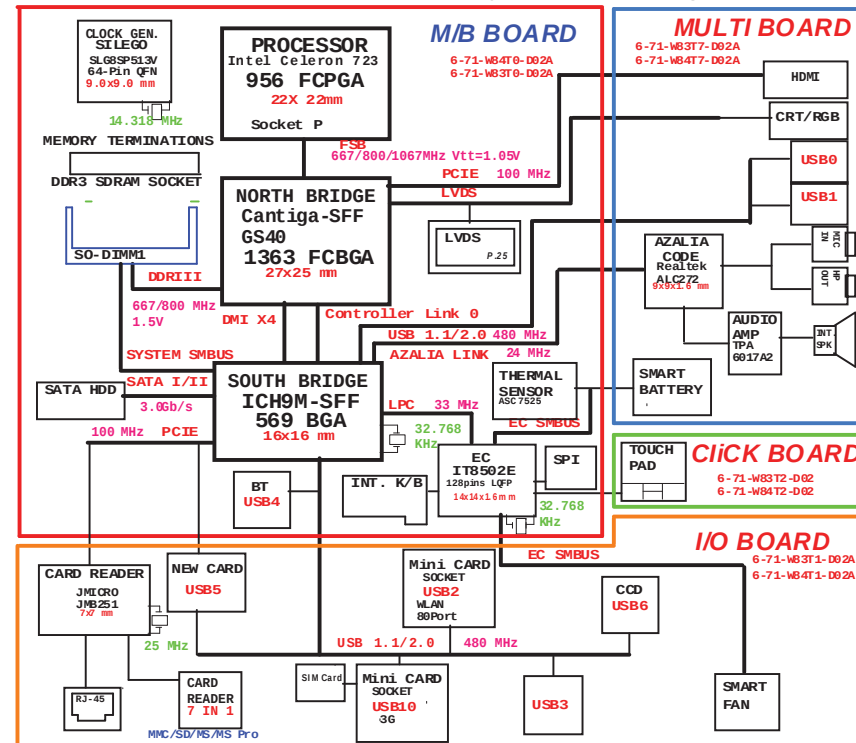
Sheet 26 of 46
To Multi, I/O Conn,
W840T LED

System Block Diagram (W830T)

Sheet 27 of 46
System Block
Diagram (W830T)

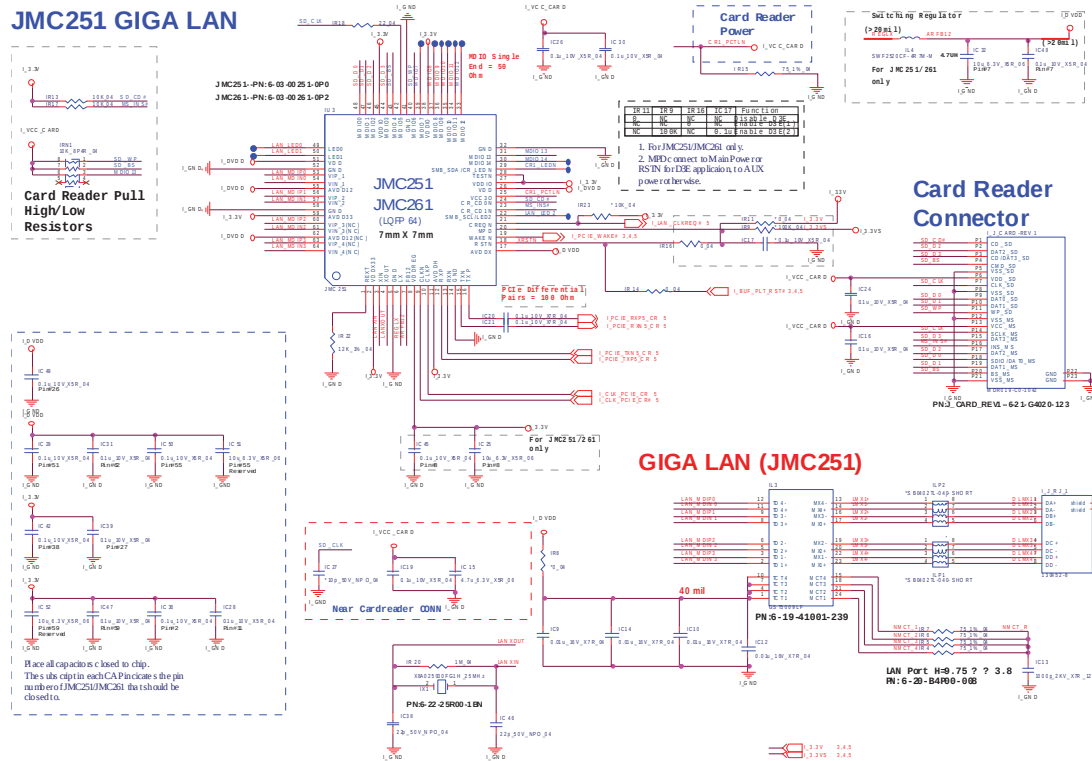
6-71-W83T1-D02A
6-71-W83T2-D02A

CLEVO W830T System Block Diagram



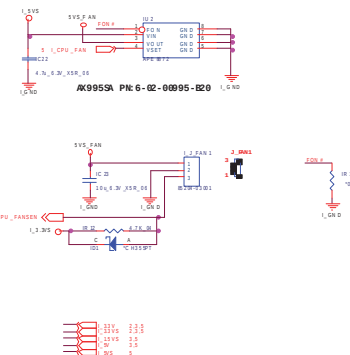
W830T MB BOARD
CPU, NB, SB, EC, LCD, RAM, HDD
BLUETOOTH, K/B
6-71-W83T1-D02A
6-71-W83T2-D02A
W830T I/O BOARD
New Card, Lan, Wlan, 3G,
Card Reader, CCD, Fan,
USB3
6-71-W83T1-D02A
6-71-W83T2-D02A
W830T MULTI BOARD
MIC, SPK, DC IN, HDMI
BATTERY, USB0, USB1
6-71-W83T1-D02A
6-71-W83T2-D02A
W840T MULTI BOARD
MIC, SPK, DC IN, HDMI
BATTERY, USB0, USB1
CRT
6-71-W83T1-D02A
6-71-W83T2-D02A
W830T CLICK BOARD
Click Conn, LED
6-71-W83T2-D02
W840T CLICK BOARD
Click Conn
6-71-W83T2-D02
VCORE
1.5V/1.5VS/0.75V
1.8V/1.05VS
VGF_X_CORE
5VS/3VS/3.3V/5V
VDD3/VDD5
AC_IN, CHARGE

W830T I/O (JMC251)



Sheet 28 of 46
W830T I/O
(JMC251)

Sheet 30 of 46
W830T I/O
(New Card, Fan,
USB)

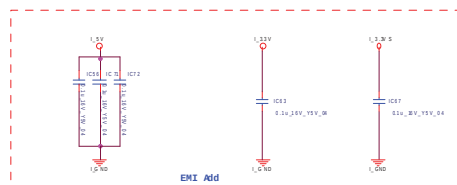
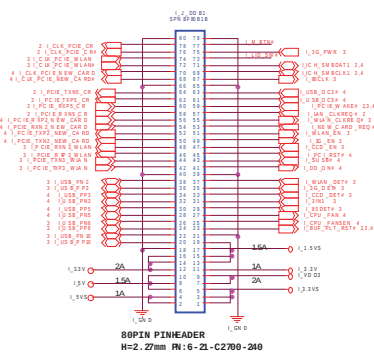


Schematic Diagrams

W830T I/O to MB Conn (SW)

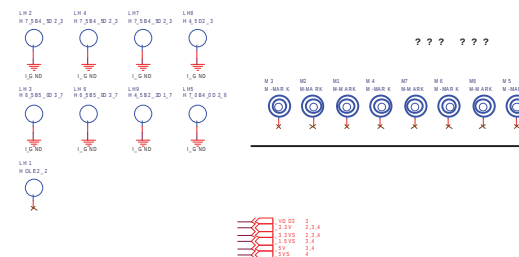
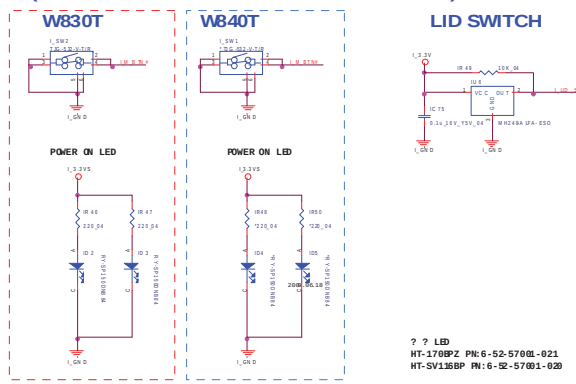
Sheet 31 of 46
W830T I/O to MB
Conn (SW)

I/O Board To CPU Board CONN.

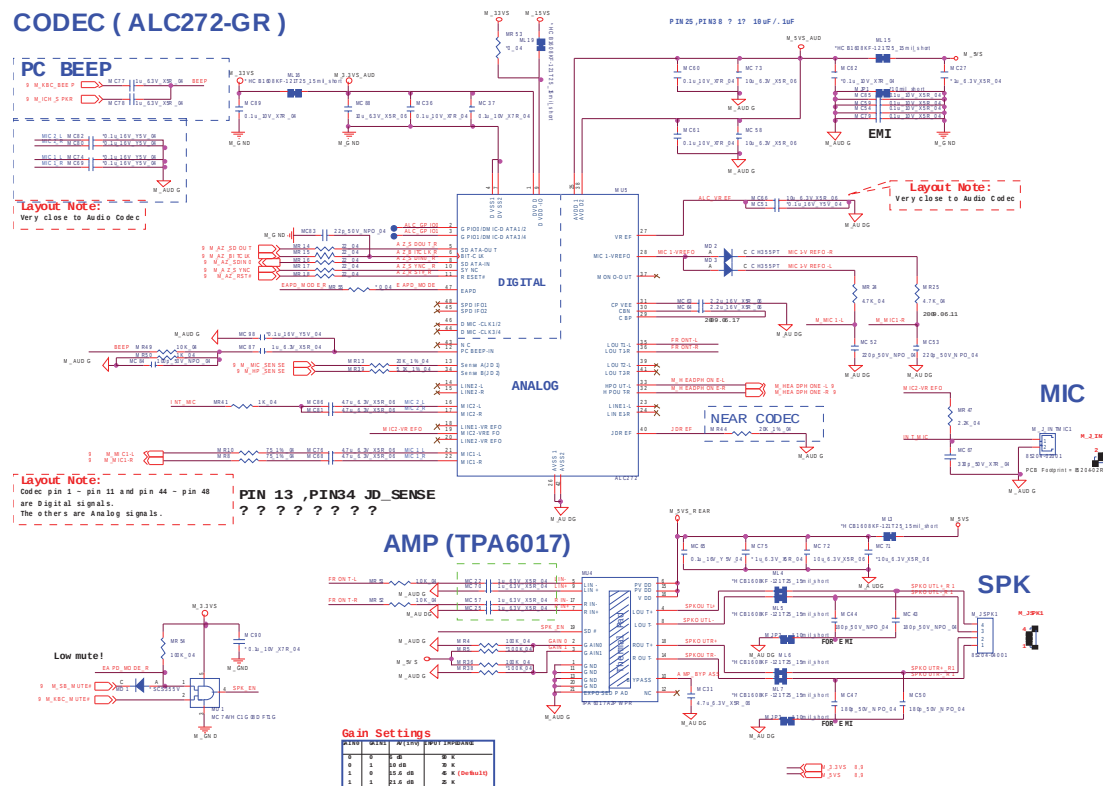


POWER SWITCH

(W830T:IR46? IR47? ID2? ID3? I_SW2? ?)
(W840T:IR47? IR48? ID4? ID5? I_SW1? ?)



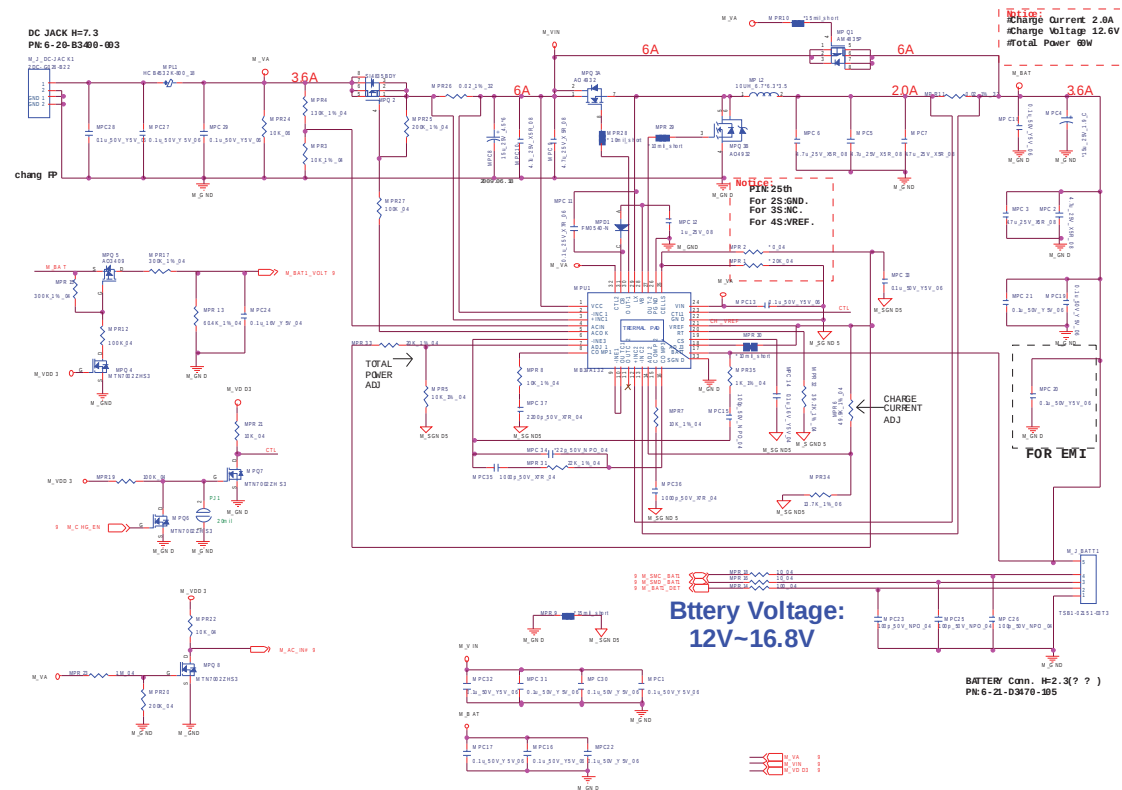
W830T Multi (Audio ALC272)



Sheet 32 of 46
W830T Multi
(Audio ALC272)

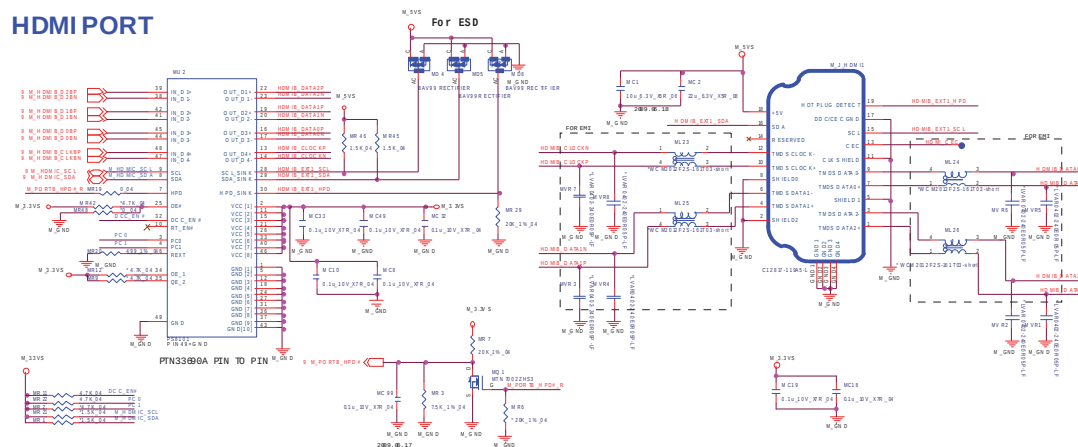
W830T Multi (AC_In, Charger)

Sheet 33 of 46
W830T Multi
(AC_In, Charger)

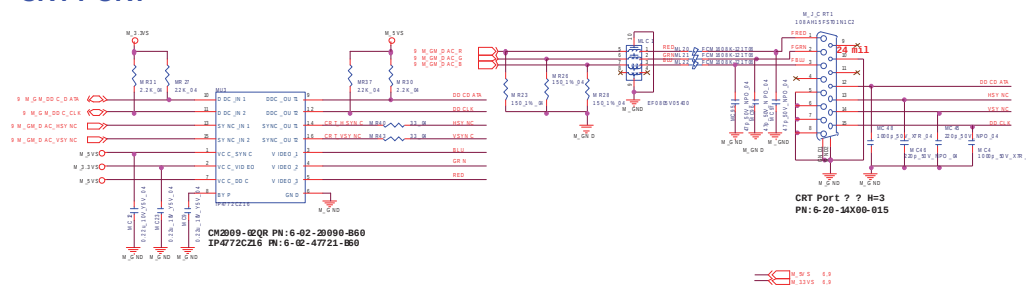


W830T Multi (HDMI/CRT Port)

HDMI PORT



CRT PORT



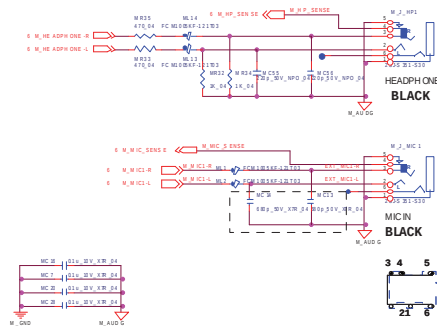
Sheet 34 of 46
W830T Multi (HDMI/
CRT Port)

Schematic Diagrams

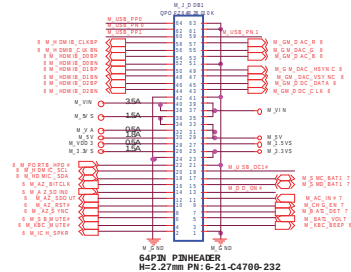
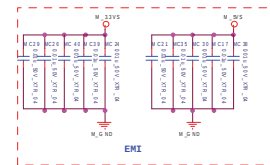
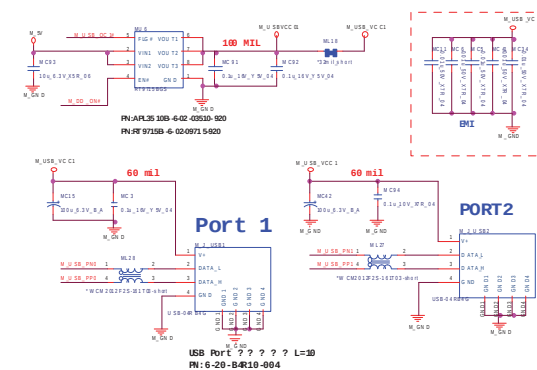
W830T to CPU Conn (Jack, USB)

Sheet 35 of 46
W830T to CPU
Conn (Jack, USB)

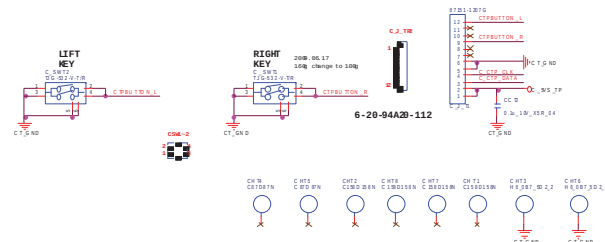
PHONE JACK



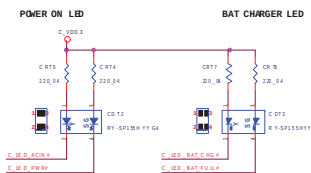
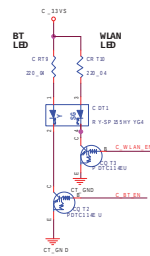
MULTI Board TO CPU Board CONN.

W830T USB
(USB Port1, Port3)

W830T CLICK BOARD
(W830T CLICK BOARD - C*T)



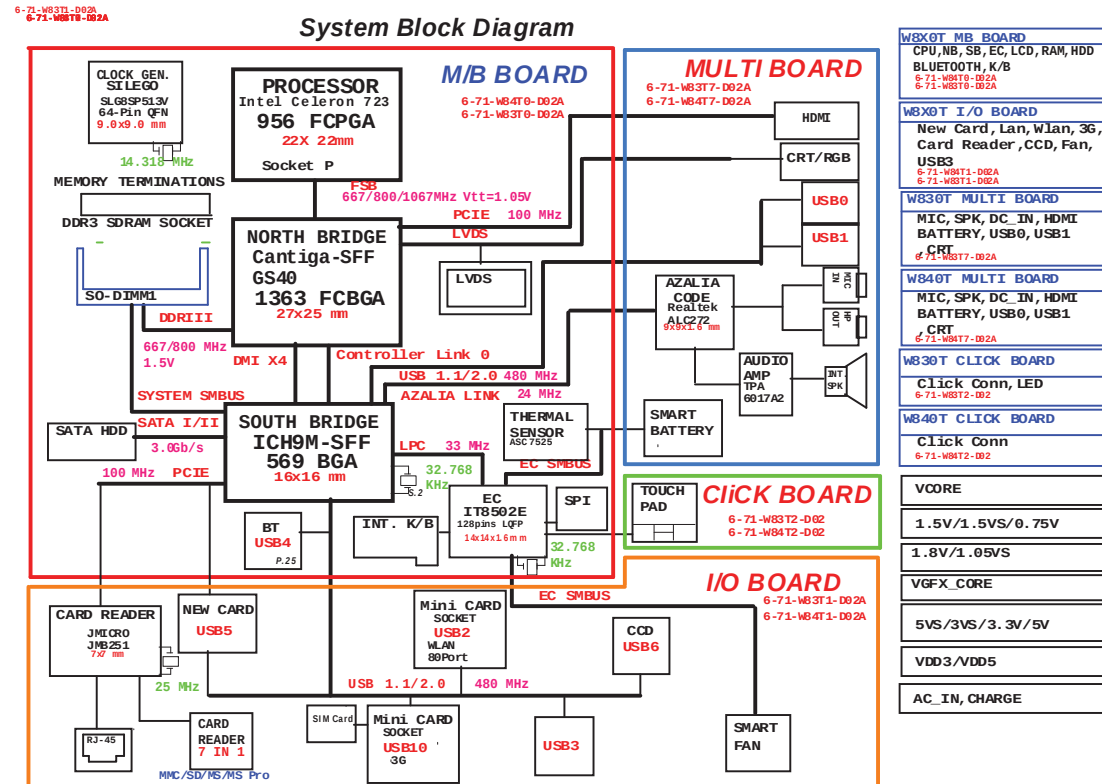
The schematic diagram shows the C.3 TPA module connected to a 3.3V power supply and a 0V ground. The module has 16 pins. Pin 1 is connected to 3.3V, pin 2 to 0V, pin 3 to 3.3V, pin 4 to 0V, pin 5 to 3.3V, pin 6 to 0V, pin 7 to 3.3V, pin 8 to 0V, pin 9 to 3.3V, pin 10 to 0V, pin 11 to 3.3V, pin 12 to 0V, pin 13 to 3.3V, pin 14 to 0V, pin 15 to 3.3V, and pin 16 to 0V. The module is labeled 'C.3 TPA' and '16'.



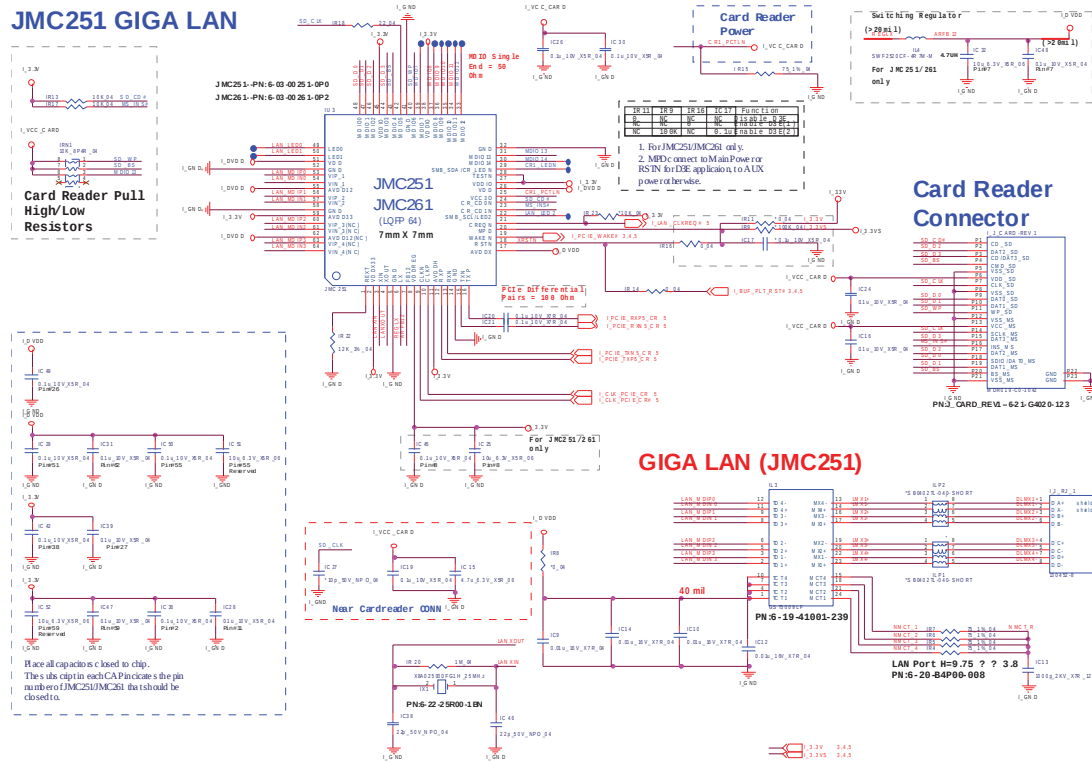
W830T Click Board (LED) B - 37

System Block Diagram (W840T)

Sheet 37 of 46
System Block
Diagram (W840T)



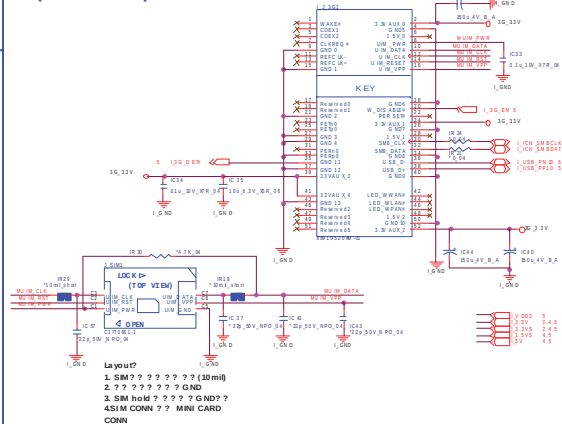
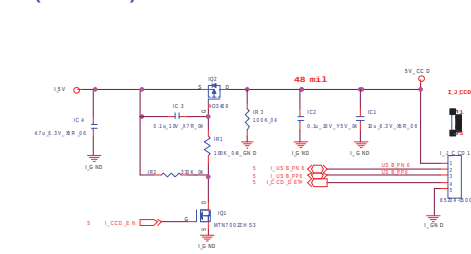
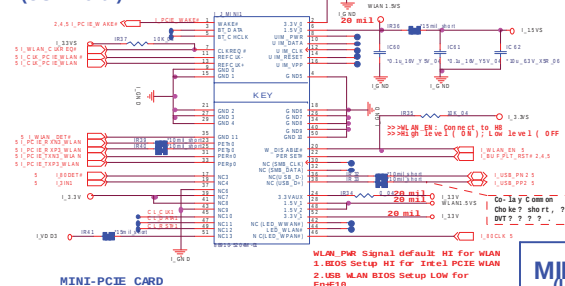
W840T I/O (JMC251)



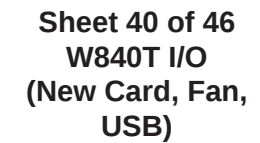
Sheet 38 of 46
W840T I/O
(JMC251)

W840T I/O (CCD, MINI, WLAN/3G)

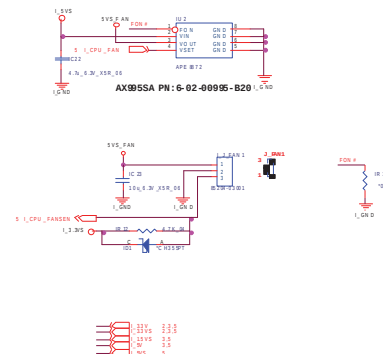
Sheet 39 of 46
W840T I/O (CCD,
MINI, WLAN/3G)



NEW CARD
(USB Port5)



FAN CONTROL

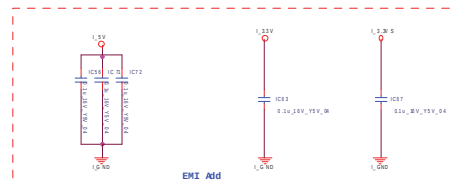
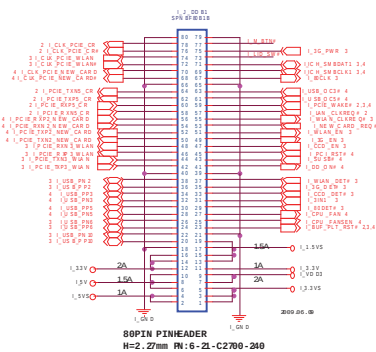


Schematic Diagrams

W840T I/O to MB Conn (SW)

Sheet 41 of 46
W840T I/O to MB
Conn (SW)

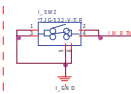
I/O Board To CPU Board CONN.



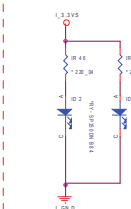
POWER SWITCH

(W830T: IR46? IR47? ID2? ID3? I_SW2? ?)
(W840T: IR47? IR48? ID4? ID5? I_SW1? ?)

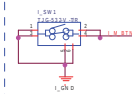
W830T



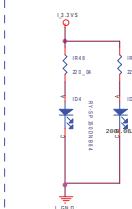
POWER ON LED



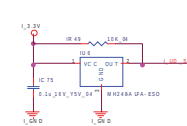
W840T



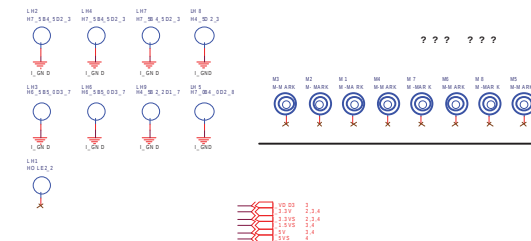
POWER ON LED



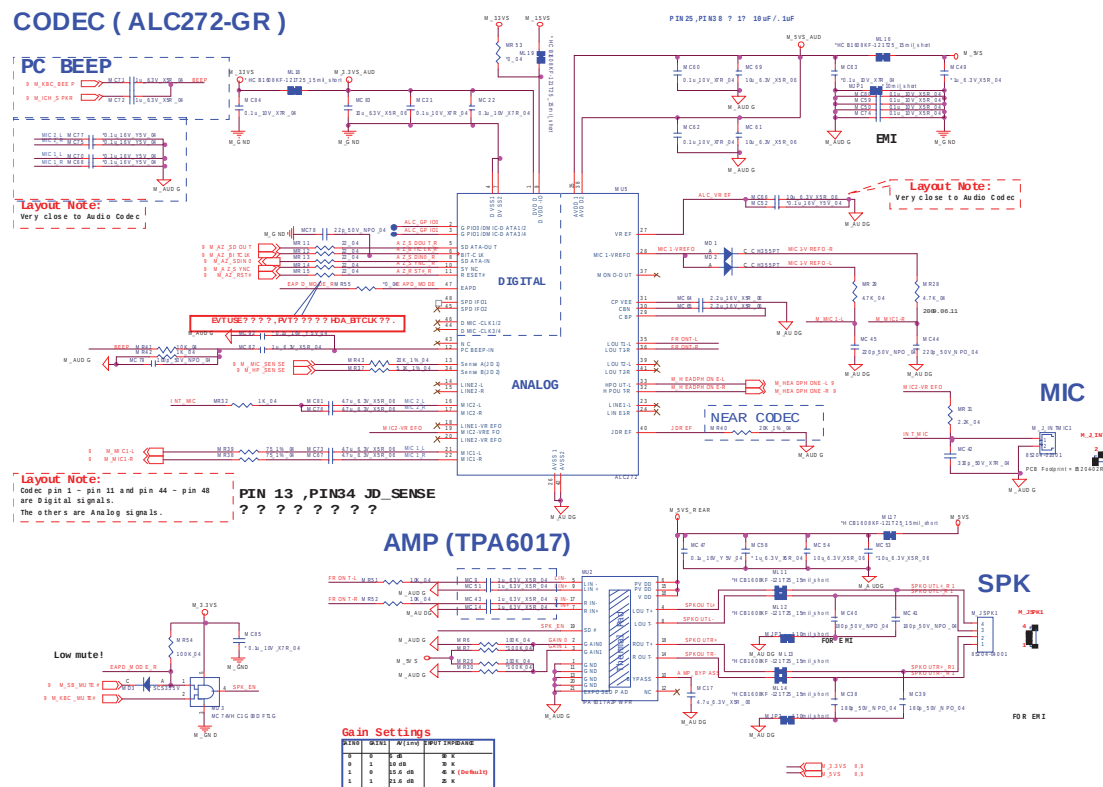
LID SWITCH



?? LED
HT-1708PZ PH:6-52-570BL-021
HT-SV1368P PH:6-52-570BL-020

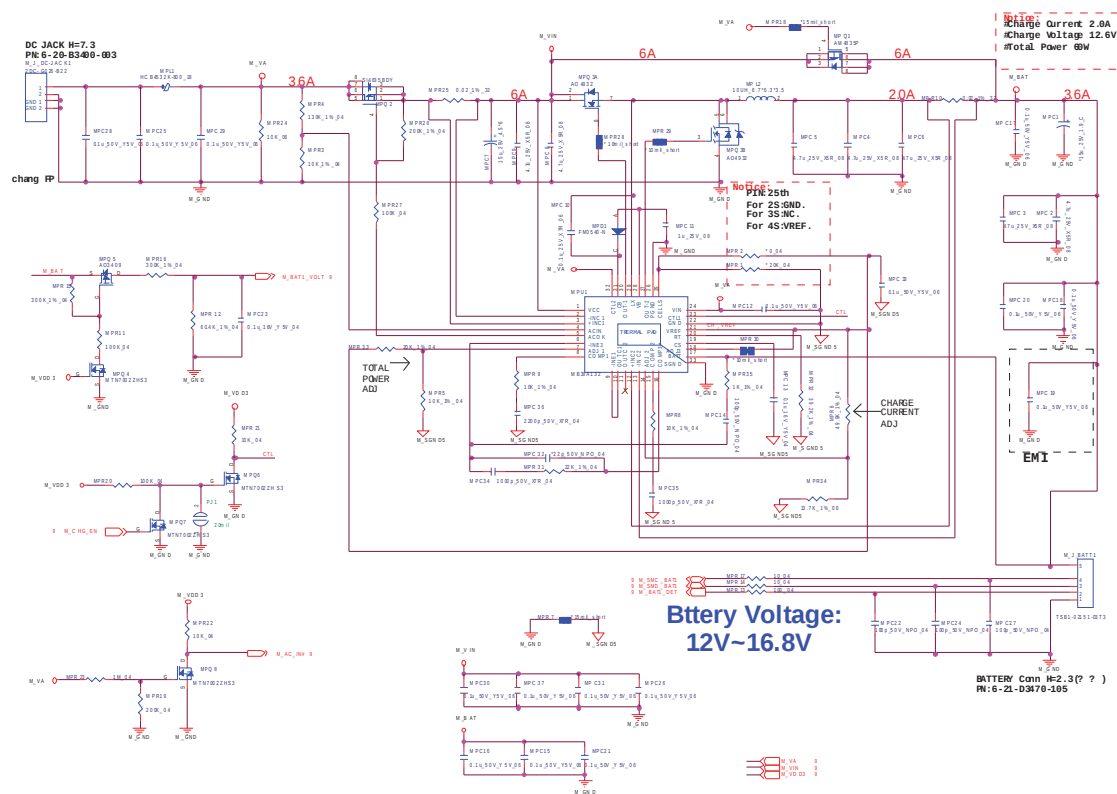


W840T Multi (Audio ALC272)



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W840T Multi
(Audio ALC272)

Sheet 43 of 46
W840T Multi
(AC_In, Charger)



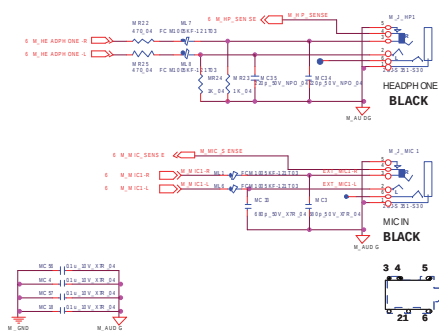
Sheet 44 of 46
W840T Multi (HDMI/
CRT Port)



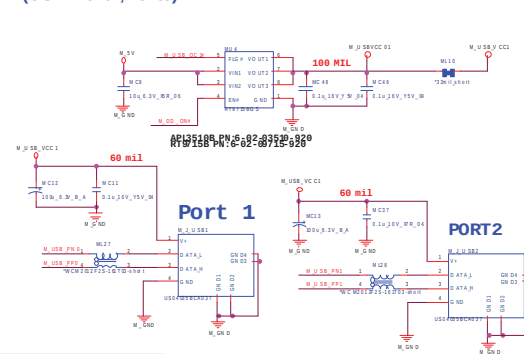
W840T to CPU Conn (Jack, USB)

Sheet 45 of 46
W840T to CPU
Conn (Jack, USB)

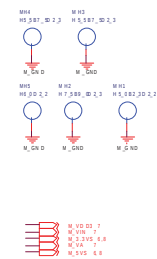
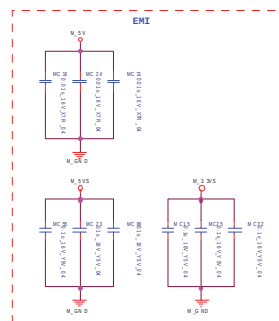
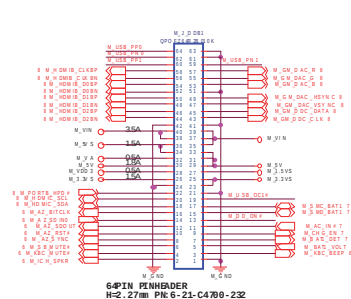
PHONE JACK



W840T USB
(USB Port1,Port3)

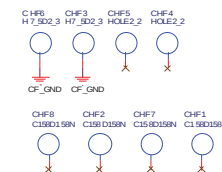
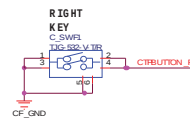
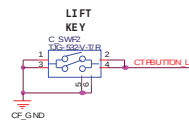
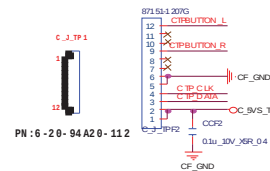
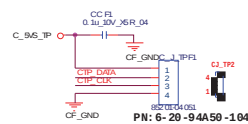


MULTI Board TO CPU Board CONN.



W840T Click Board (LED)

CLICK BOARD (W840T CLICK BOARD-C*F)



Sheet 46 of 46
W840T Click Board
(LED)