SERVICE MANUAL

E4120 / E4121-C / E4125-C / E4121D-C

notebook

Notebook Computer

E4120 / E4121-C / E4125-C / E4121D-C

Service Manual

Notice

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About this Manual

This manual is intended for service personnel who have completed sufficient training to undertake the maintenance and inspection of personal computers.

It is organized to allow you to look up basic information for servicing and/or upgrading components of the ***E4120 / E4121-C / E4125-C / E4121D-C*** series notebook PC.

The following information is included:

Chapter 1, Introduction, provides general information about the location of system elements and their specifications.
Chapter 2, Disassembly, provides step-by-step instructions for disassembling parts and subsystems and how to upgrade elements of the system.

Appendix A, Part Lists
Appendix B, Schematic Diagrams

IMPORTANT SAFETY INSTRUCTIONS

Follow basic safety precautions, including those listed below, to reduce the risk of fire, electric shock and injury to persons when using any electrical equipment:

1. Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
5. This product is intended to be supplied by a Listed Power Unit with an AC Input of 100 - 240V, 50 - 60Hz, DC Output of 19V, 3.42A OR 18.5V, 3.5A (**65** Watts) minimum AC/DC Adapter.

CAUTION

Always disconnect all telephone lines from the wall outlet before servicing or disassembling this equipment.

TO REDUCE THE RISK OF FIRE, USE ONLY NO. 26 AWG OR LARGER, TELECOMMUNICATION LINE CORD

This Computer's Optical Device is a Laser Class 1 Product

Instructions for Care and Operation

The notebook computer is quite rugged, but it can be damaged. To prevent this, follow these suggestions:

1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.

Do not expose the computer to any shock or vibration. 	*Do not place it on an unstable surface.* 	*Do not place anything heavy on the computer.* 

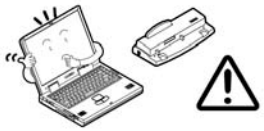
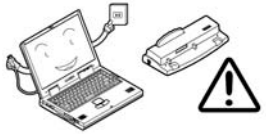
2. **Keep it dry, and don't overheat it.** Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.

Do not expose it to excessive heat or direct sunlight. 	*Do not leave it in a place where foreign matter or moisture may affect the system.* 	*Don't use or store the computer in a humid environment.* 	*Do not place the computer on any surface which will block the vents.* 

3. **Follow the proper working procedures for the computer**. Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.

Do not turn off the power until you properly shut down all programs. 	*Do not turn off any peripheral devices when the computer is on.* 	*Do not disassemble the computer by yourself.* 	*Perform routine maintenance on your computer.* 

4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices**.

Use only approved brands of peripherals.	*Unplug the power cord before attaching peripheral devices.*
	

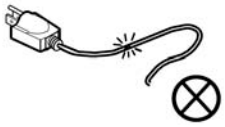
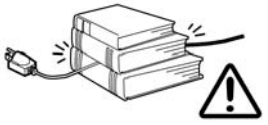
Power Safety

The computer has specific power requirements:

- Only use a power adapter approved for use with this computer.
- Your AC adapter may be designed for international travel but it still requires a steady, uninterrupted power supply. If you are unsure of your local power specifications, consult your service representative or local power company.
- The power adapter may have either a 2-prong or a 3-prong grounded plug. The third prong is an important safety feature; do not defeat its purpose. If you do not have access to a compatible outlet, have a qualified electrician install one.
- When you want to unplug the power cord, be sure to disconnect it by the plug head, not by its wire.
- Make sure the socket and any extension cord(s) you use can support the total current load of all the connected devices.
- Before cleaning the computer, make sure it is disconnected from any external power supplies.

Power Safety Warning

Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.

Do not plug in the power cord if you are wet.	*Do not use the power cord if it is broken.*	*Do not place heavy objects on the power cord.*
		

Battery Precautions

- Only use batteries designed for this computer. The wrong battery type may explode, leak or damage the computer.
- Do not continue to use a battery that has been dropped, or that appears damaged (e.g. bent or twisted) in any way. Even if the computer continues to work with a damaged battery in place, it may cause circuit damage, which may possibly result in fire.
- Recharge the batteries using the notebook's system. Incorrect recharging may make the battery explode.
- Do not try to repair a battery pack. Refer any battery pack repair or replacement to your service representative or qualified service personnel.
- Keep children away from, and promptly dispose of a damaged battery. Always dispose of batteries carefully. Batteries may explode or leak if exposed to fire, or improperly handled or discarded.
- Keep the battery away from metal appliances.
- Affix tape to the battery contacts before disposing of the battery.
- Do not touch the battery contacts with your hands or metal objects.

Battery Guidelines

The following can also apply to any backup batteries you may have.

- If you do not use the battery for an extended period, then remove the battery from the computer for storage.
- Before removing the battery for storage charge it to 60% - 70%.
- Check stored batteries at least every 3 months and charge them to 60% - 70%.

Battery Disposal

The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

Caution

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

Battery Level

Click the battery icon  in the taskbar to see the current battery level and charge status. A battery that drops below a level of 10% will not allow the computer to boot up. Make sure that any battery that drops below 10% is recharged within one week.

Related Documents

You may also need to consult the following manual for additional information:

User's Manual on CD
This describes the notebook PC's features and the procedures for operating the computer and its ROM-based setup program. It also describes the installation and operation of the utility programs provided with the notebook PC.

Contents

Chapter 1: Introduction

Overview

This manual covers the information you need to service or upgrade the ***E4120 / E4121-C / E4125-C / E4121D-C*** series notebook computer. Information about operating the computer (e.g. getting started, and the *Setup* utility) is in the *User's Manual*. Information about drivers (e.g. VGA & audio) is also found in *User's Manual*. That manual is shipped with the computer.

Operating systems (e.g. *Windows 7*, *Windows Vista*, etc.) have their own manuals as do application software (e.g. word processing and database programs). If you have questions about those programs, you should consult those manuals.

The ***E4120 / E4121-C / E4125-C / E4121D-C*** series notebook is designed to be upgradeable. See ***Disassembly on page 2 - 1*** for a detailed description of the upgrade procedures for each specific component. Please note the warning and safety information indicated by the "  " symbol.

The balance of this chapter reviews the computer's technical specifications and features.

System Specifications

Processor
Intel® Core™ i7-620M Processor: (2.66GHz) 32nm (32 Nanometer) Process Technology, 4MB L2 Cache & 1066MHz FSB - TDP 35W rPGA988A Socket P Package
Intel® Core™ i5-540M Processor: (2.53GHz) 32nm (32 Nanometer) Process Technology, 3MB L2 Cache & 1066MHz FSB - TDP 35W rPGA988A Socket P Package
Intel® Core™ i5-520M Processor: (2.4GHz) 32nm (32 Nanometer) Process Technology, 3MB L2 Cache & 1066MHz FSB - TDP 35W rPGA988A Socket P Package
Intel® Core™ i5-430M Processor: (2.26GHz) 32nm (32 Nanometer) Process Technology, 3MB L2 Cache & 1066MHz FSB, - TDP 35W rPGA988A Socket P Package
Intel® Core™ i3-350M Processor: (2.26GHz) 32nm (32 Nanometer) Process Technology, 3MB L2 Cache & 1066MHz FSB - TDP 35W rPGA988A Socket P Package
Intel® Core™ i3-330M Processor: (2.13GHz) 32nm (32 Nanometer) Process Technology, 3MB L2 Cache & 1066MHz FSB - TDP 35W rPGA988A Socket P Package

Core Logic
Intel® HM55 Chipset
Display
14.0” / 35.56cm 16:9 HD (1366 * 768)
Memory
Dual Channel **DDRIII (DDR3)** Two 204 Pin SO-DIMM sockets supporting DDR3 1066 MHz Memory Expandable up to **4GB** (using 2GB SO-DIMM Modules)
Video
Intel® HM55 Integrated Video: High Preference 3D/2D Graphic Accelerator Shared Memory Architecture of up to **1748MB** Supports Microsoft DirectX10 Compatible
BIOS
One 32Mbit SPI Flash ROM Phoenix™ BIOS
Storage
One Changeable 12.7mm(h) Super Multi/Blu-ray Combo Optical Device Drive with SATA Interface One Changeable 2.5" / 9.5 mm (h) HDD with SATA (Serial) Interface
Audio
High Definition Audio Interface 3D Enhanced Stereo System Built-In Microphone 2 * Built-In Speakers

Keyboard & Pointing Device
Isolated WinKey Keyboard Built-in TouchPad with Multi-Gesture Functionality
Interface
Three USB 2.0 Ports One External Monitor Port One HDMI Out Port One Headphone-Out Jack One Microphone-In Jack One RJ-45 LAN Jack One RJ-11 Modem Jack One DC-In Jack
Card Reader
Embedded 7-in-1 Card Reader (MS/ MS Pro/ SD/ Mini SD/ MMC/ RS MMC/ MS Duo) **Note:** MS Duo/ Mini SD/ RS MMC Cards require a PC adapter
Slots
One ExpressCard 34 Slot Supporting USB & PCIe Interfaces **Two Mini-Card Slots with PCIe (Slot 1) & USB (Slot 2) interface:** Slot 1 for WLAN Module (**Factory Option**) Slot 2 for 3.75G Module (**Factory Option**)

Communication
56K **Fax/Modem** Built-In 10/100/1000Mb Base-TX **Ethernet LAN** **Intel® WiFi Link 1000** (802.11 b/g/n) Half Mini-Card PCIe WLAN Module (**Factory Option**) **3rd Party WLAN** 802.11b/g/n Half Mini-Card Module with PCIe Interface(**Option**) **Bluetooth 2.1** + EDR (Enhanced Data Rate) Module (**Factory Option**) 1.3M Pixel **PC Camera Module** with USB interface (**Factory Option**) UMTS/HSPDA-based **3.75G Module** with USB Half Mini-Card Interface (**Factory Option**) Quad-band GSM/GPRS (850 MHz, 900 MHz, 1800 MHz, 1900 MHz) UMTS WCDMA FDD (2100 MHz) **Note that UMTS modes CAN NOT be used in North America**

Power Management
Supports Wake on LAN Supports Wake on USB

Power
Full Range AC/DC Adapter AC input 100 - 240V, 50 - 60Hz, DC Output 19V, 3.42A or 18.5V, 3.5A (**65** Watts) Removable 6 Cell Smart Lithium Ion Battery Pack 48.84WH (**Factory Option**) Removable 6 Cell Smart Lithium Ion Battery Pack 62.16WH

Security
Security (Kensington® Type) Lock Slot BIOS Password

Operating System
Windows® Vista (with Service Pack 2) Windows® 7

Design Feature
IMR Changeable LCD Back Covers (**Factory Option**)

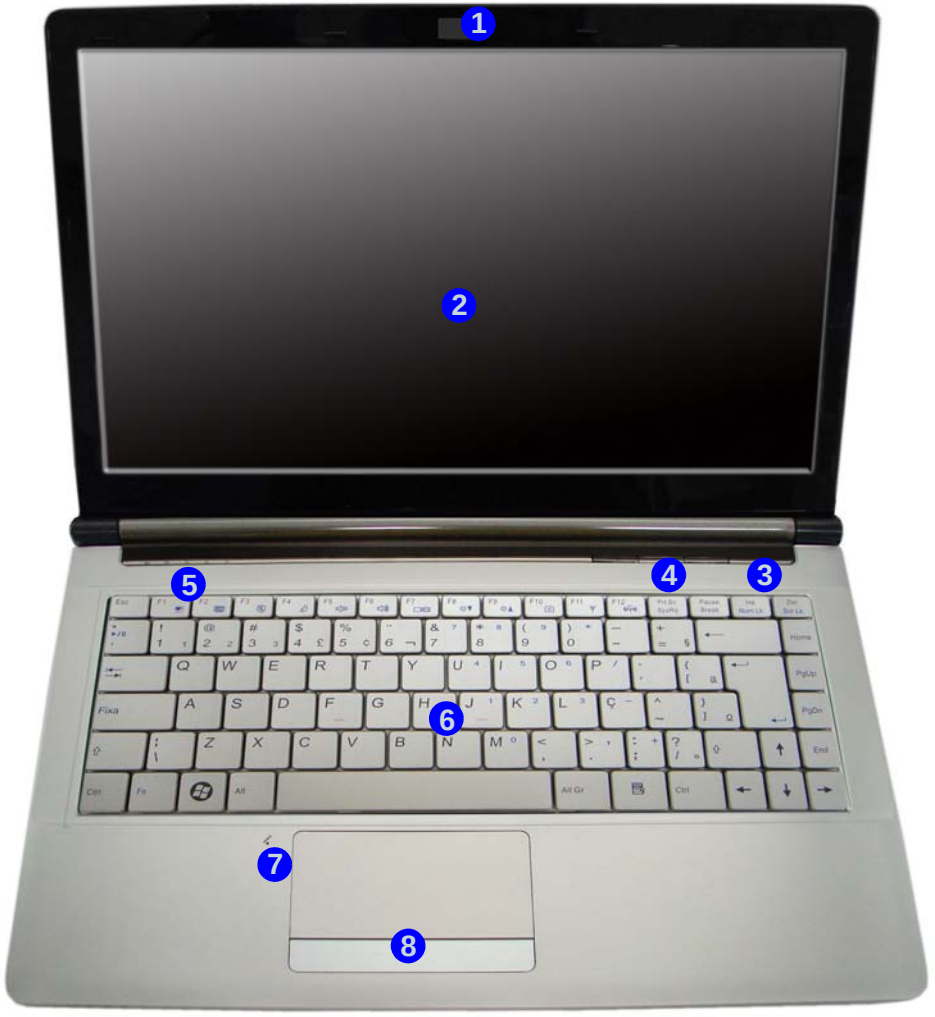
Environmental Spec	
Temperature	
Operating:	5°C - 35°C
Non-Operating:	-20°C - 60°C
Relative Humidity	
Operating:	20% - 80%
Non-Operating:	10% - 90%

Dimensions & Weight
340mm (w) * 238mm (d) * 15.6 - 35.2mm (h) 2.2 kg with 6 Cell Battery & ODD

External Locator - Top View with LCD Panel Open

Figure 1
Top View

1. Optional Built-In PC Camera
2. LCD
3. Power Button
4. Hot Key Buttons
5. LED Status Indicators
6. Keyboard
7. Built-In Microphone
8. Touchpad & Buttons



External Locator - Front & Right side Views

Figure 2
Front Views

1. LED Power Indicators

Figure 3
Right Side Views

1. Microphone-In Jack
2. Headphone-Out Jack
3. USB 2.0 Port
4. RJ-11 Phone Jack
5. Optical Device Drive Bay
6. Security Lock Slot

External Locator - Left Side & Rear View

Figure 4
Left Side View

1. DC-In Jack
2. External Monitor Port
3. RJ-45 LAN Jack
4. HDMI-Out Port
5. Vent/Fan Intake/ Outlet
6. 2 * USB 2.0 Ports
7. ExpressCard Slot
8. 7-in-1 Card Reader

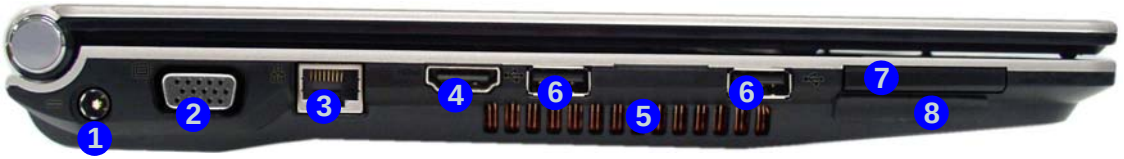
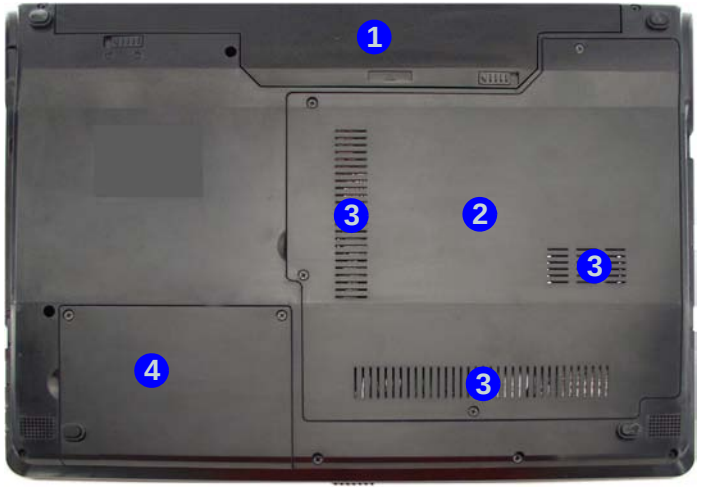


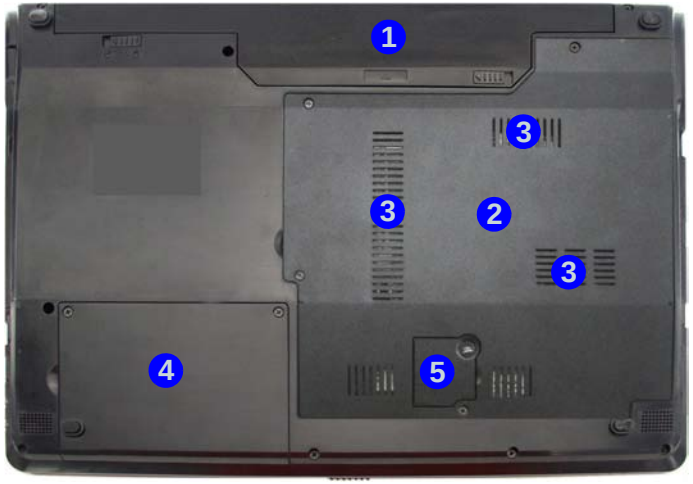
Figure 5
Rear View

1. Battery

External Locator - Bottom View



WITHOUT 3G



WITH 3G

Figure 6
Bottom View

1. Battery
2. Component Bay Cover
3. Vent/Fan Intake/ Outlet
4. Hard Disk Bay Cover
5. 3.75G/HSPA USIM Card Cover (optional)

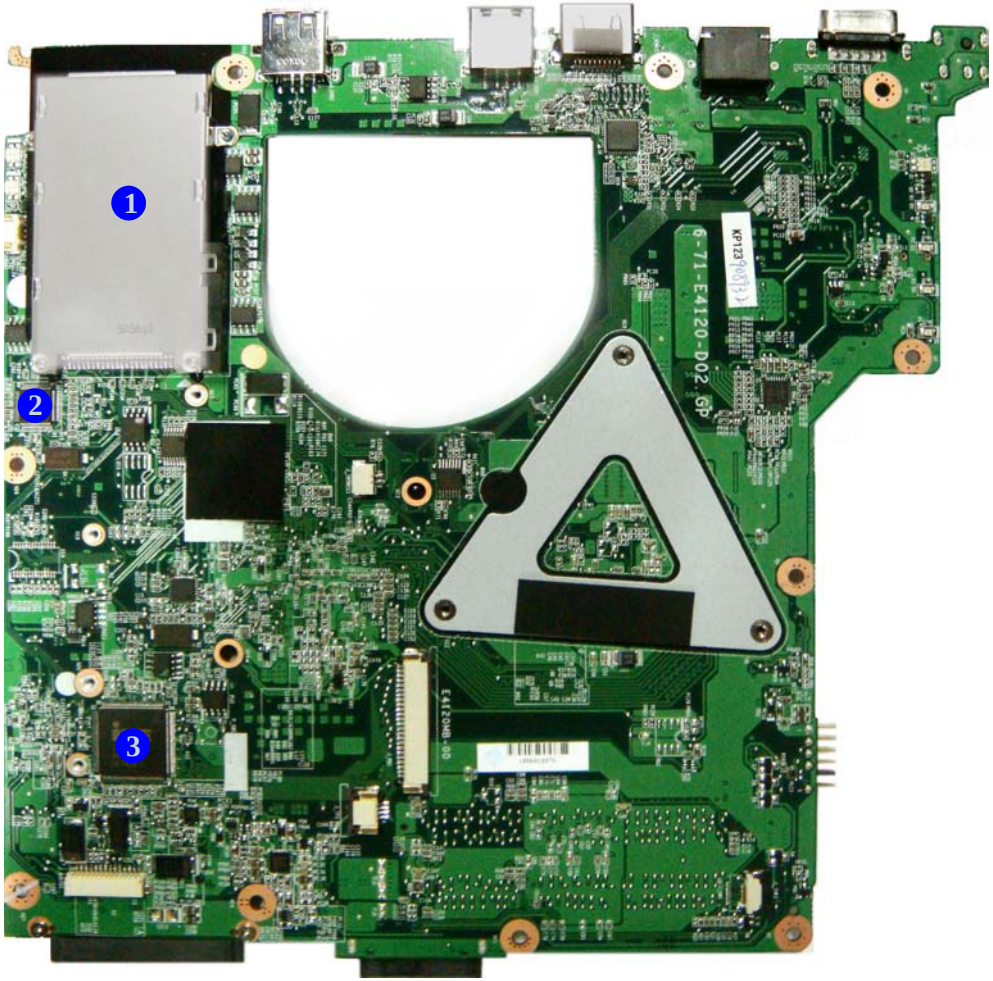
Overheating

To prevent your computer from overheating make sure nothing blocks the vent/fan intakes while the computer is in use.

Mainboard Overview - Top (Key Parts)

Figure 7
Mainboard Top Key Parts

1. ExpressCard Connector
2. JMC251
3. KBC ITE IT8512E



Mainboard Overview - Bottom (Key Parts)

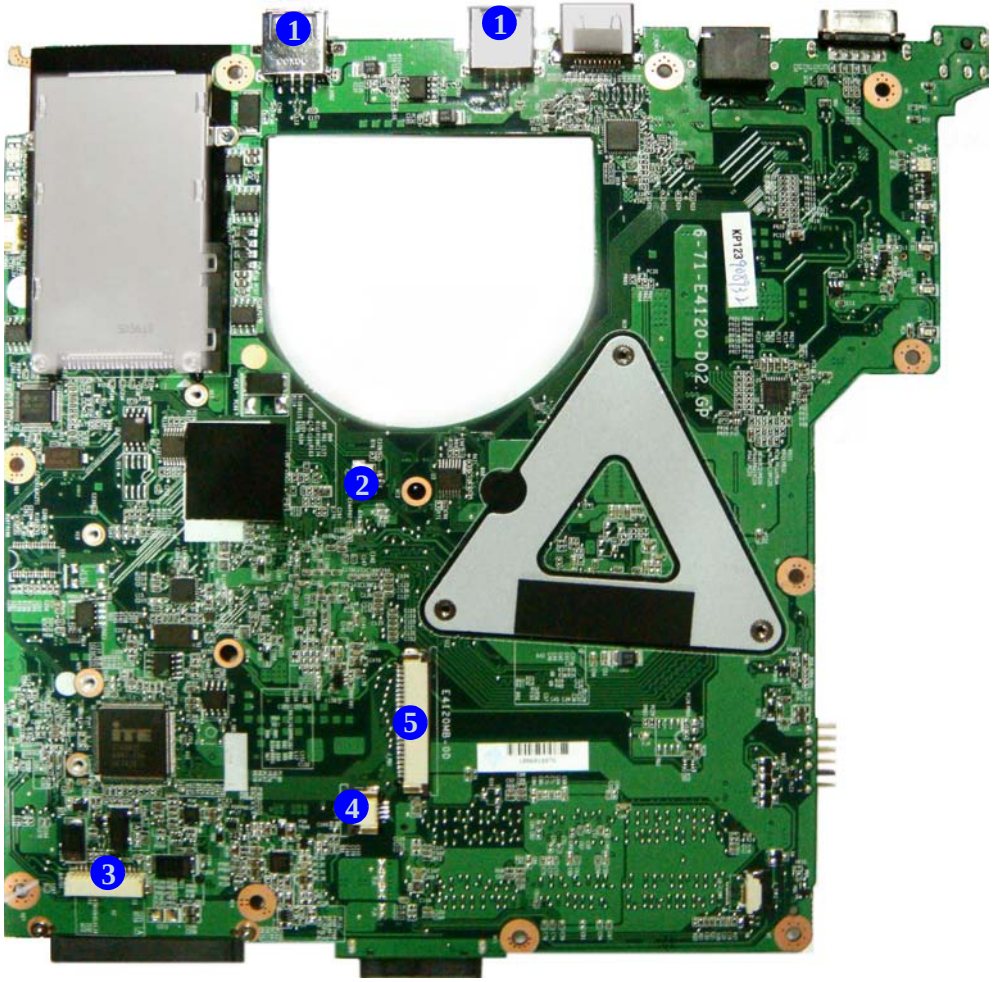
Figure 8
Mainboard Bottom Key Parts

1. CPU Socket (no CPU installed)
2. Memory Slots DDR3 SO-DIMM
3. Intel HM55
4. Mini-Card Connector (3G Module)
5. Audio Codec
6. Mini-Card Connector (WLAN Module)
7. Card Reader Socket

Mainboard Overview - Top (Connectors)

Figure 9
Mainboard Top Connectors

1. USB Port
2. Microphone Cable Connector
3. Audio Cable Connector
4. TouchPad Cable Connector
5. Keyboard Cable Connector



Mainboard Overview - Bottom (Connectors)

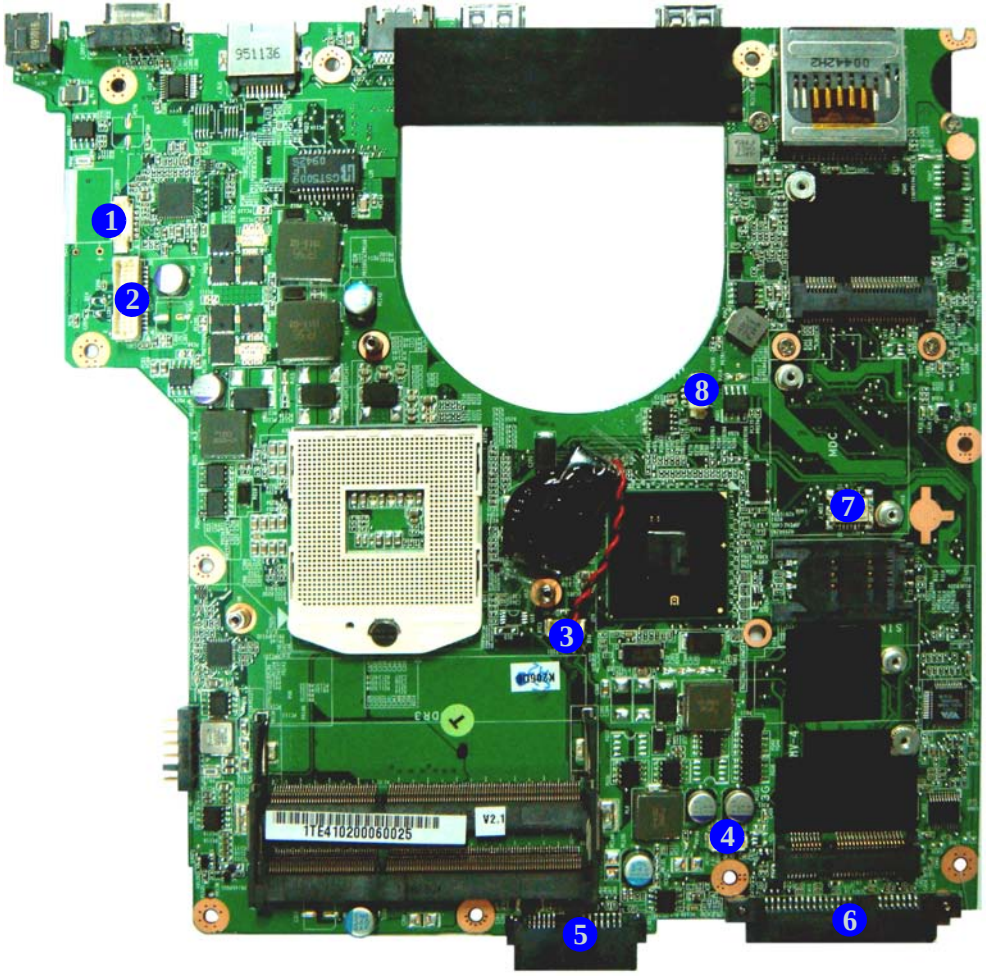


Figure 10
Mainboard Bottom Connectors

1. CCD Connector
2. LCD Cable Connector
3. CMOS Cable Connector
4. BT Cable Connector
5. ODD Connector
6. HDD Connector
7. MDC Cable Connector
8. Fan Cable Connector

Chapter 2: Disassembly

Overview

This chapter provides step-by-step instructions for disassembling the ***E4120 / E4121-C / E4125-C / E4121D-C*** series notebook's parts and subsystems. When it comes to reassembly, reverse the procedures (unless otherwise indicated).

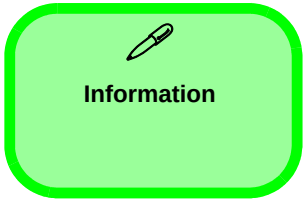
We suggest you completely review any procedure before you take the computer apart.

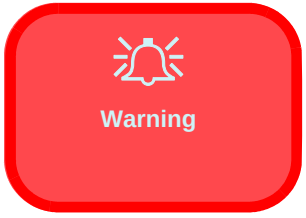
Procedures such as upgrading/replacing the RAM, optical device and hard disk are included in the User's Manual but are repeated here for your convenience.

To make the disassembly process easier each section may have a box in the page margin. Information contained under the figure # will give a synopsis of the sequence of procedures involved in the disassembly procedure. A box with a  lists the relevant parts you will have after the disassembly process is complete. **Note**: The parts listed will be for the disassembly procedure listed ONLY, and not any previous disassembly step(s) required. Refer to the part list for the previous disassembly procedure. The amount of screws you should be left with will be listed here also.

A box with a  will also provide any possible helpful information. A box with a  contains warnings.

An example of these types of boxes are shown in the sidebar.





NOTE: All disassembly procedures assume that the system is turned **OFF**, and disconnected from any power supply (the battery is removed too).

Maintenance Tools

The following tools are recommended when working on the notebook PC:

- M3 Philips-head screwdriver
- M2.5 Philips-head screwdriver (magnetized)
- M2 Philips-head screwdriver
- Small flat-head screwdriver
- Pair of needle-nose pliers
- Anti-static wrist-strap

Connections

Connections within the computer are one of four types:

Locking collar sockets for ribbon connectors	To release these connectors, use a small flat-head screwdriver to gently pry the locking collar away from its base. When replacing the connection, make sure the connector is oriented in the same way. The pin1 side is usually not indicated.
Pressure sockets for multi-wire connectors	To release this connector type, grasp it at its head and gently rock it from side to side as you pull it out. Do not pull on the wires themselves. When replacing the connection, do not try to force it. The socket only fits one way.
Pressure sockets for ribbon connectors	To release these connectors, use a small pair of needle-nose pliers to gently lift the connector away from its socket. When replacing the connection, make sure the connector is oriented in the same way. The pin1 side is usually not indicated.
Board-to-board or multi-pin sockets	To separate the boards, gently rock them from side to side as you pull them apart. If the connection is very tight, use a small flat-head screwdriver - use just enough force to start.

Maintenance Precautions

The following precautions are a reminder. To avoid personal injury or damage to the computer while performing a removal and/or replacement job, take the following precautions:

1. **Don't drop it**. Perform your repairs and/or upgrades on a stable surface. If the computer falls, the case and other components could be damaged.
2. **Don't overheat it**. Note the proximity of any heating elements. Keep the computer out of direct sunlight.
3. **Avoid interference**. Note the proximity of any high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage components and/or data. You should also monitor the position of magnetized tools (i.e. screwdrivers).
4. **Keep it dry**. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.
5. **Be careful with power**. Avoid accidental shocks, discharges or explosions.
   - Before removing or servicing any part from the computer, turn the computer off and detach any power supplies.
   - When you want to unplug the power cord or any cable/wire, be sure to disconnect it by the plug head. Do not pull on the wire.
6. **Peripherals** – Turn off and detach any peripherals.
7. **Beware of static discharge**. ICs, such as the CPU and main support chips, are vulnerable to static electricity. Before handling any part in the computer, discharge any static electricity inside the computer. When handling a printed circuit board, do not use gloves or other materials which allow static electricity buildup. We suggest that you use an anti-static wrist strap instead.
8. **Beware of corrosion**. As you perform your job, avoid touching any connector leads. Even the cleanest hands produce oils which can attract corrosive elements.
9. **Keep your work environment clean**. Tobacco smoke, dust or other air-born particulate matter is often attracted to charged surfaces, reducing performance.
10. **Keep track of the components**. When removing or replacing any part, be careful not to leave small parts, such as screws, loose inside the computer.

Power Safety Warning

Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines). It is advisable to also remove your battery in order to prevent accidentally turning the machine on.

Cleaning

Do not apply cleaner directly to the computer, use a soft clean cloth.
Do not use volatile (petroleum distillates) or abrasive cleaners on any part of the computer.

Disassembly Steps

The following table lists the disassembly steps, and on which page to find the related information. **PLEASE PERFORM THE DISASSEMBLY STEPS IN THE ORDER INDICATED.**

To remove the Battery:

1. Remove the battery *page 2 - 5*

To remove the HDD:

1. Remove the battery *page 2 - 5*
2. Remove the HDD *page 2 - 6*

To remove the Optical Device:

1. Remove the battery *page 2 - 5*
2. Remove the Optical device *page 2 - 8*

To remove the System Memory:

1. Remove the battery *page 2 - 5*
2. Remove the system memory *page 2 - 9*

To remove and install a Processor:

1. Remove the battery *page 2 - 5*
2. Remove the processor *page 2 - 11*
3. Install the processor *page 2 - 13*

To remove the WLAN Module:

1. Remove the battery *page 2 - 5*
2. Remove the wireless LAN *page 2 - 14*

To remove the 3.75G Module:

1. Remove the battery *page 2 - 5*
2. Remove the 3.75G *page 2 - 15*

To remove the Modem:

1. Remove the battery *page 2 - 5*
2. Remove the modem *page 2 - 16*

To remove the Bluetooth Module:

1. Remove the battery *page 2 - 5*
2. Remove the Bluetooth *page 2 - 17*

To remove the LCD Back Cover (E4121D-C):

1. Remove the battery *page 2 - 5*
2. Remove the LCD Back Cover *page 2 - 18*

To remove the LCD Front Cover:

1. Remove the battery *page 2 - 5*
2. Remove the LCD Front Cover *page 2 - 20*

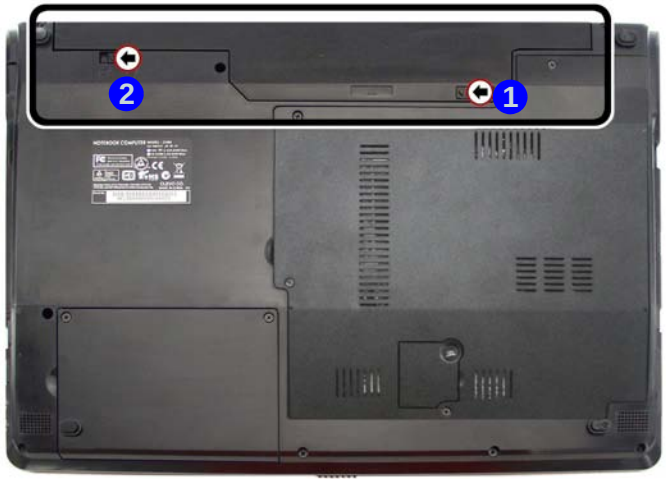
To remove the Keyboard:

1. Remove the battery *page 2 - 5*
2. Remove the keyboard *page 2 - 21*

Removing the Battery

1. Turn the computer **off**, and turn it over.
2. Slide the latch 1 in the direction of the arrow.
3. Slide the latch 2 in the direction of the arrow, and hold it in place.
4. Slide the battery 3 in the direction of the arrow 4.

a.



b.

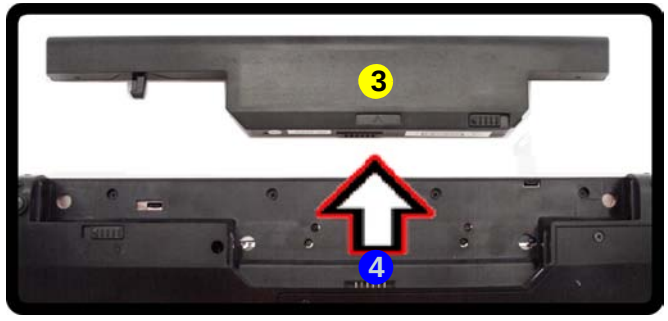


Figure 1
Battery Removal

a. Slide the latch and hold in place.
b. Slide the battery in the direction of the arrow.

3. Battery

Removing the Hard Disk Drive

The hard disk drive can be taken out to accommodate other 2.5" serial (SATA) hard disk drives with a height of 9.5mm (h). Follow your operating system's installation instructions, and install all necessary drivers and utilities (as outlined in **Chapter 4 of the User's Manual**) when setting up a new hard disk.

Figure 2
HDD Assembly Removal

a. Locate the HDD bay cover and remove the screw(s).

Hard Disk Upgrade Process

1. Turn **off** the computer, and remove the battery (***page 2 - 5***).
2. Locate the hard disk bay cover and remove screws 1 & 2.

a.

- 2 Screws

HDD System Warning

New HDD's are blank. Before you begin make sure:

You have backed up any data you want to keep from your old HDD.

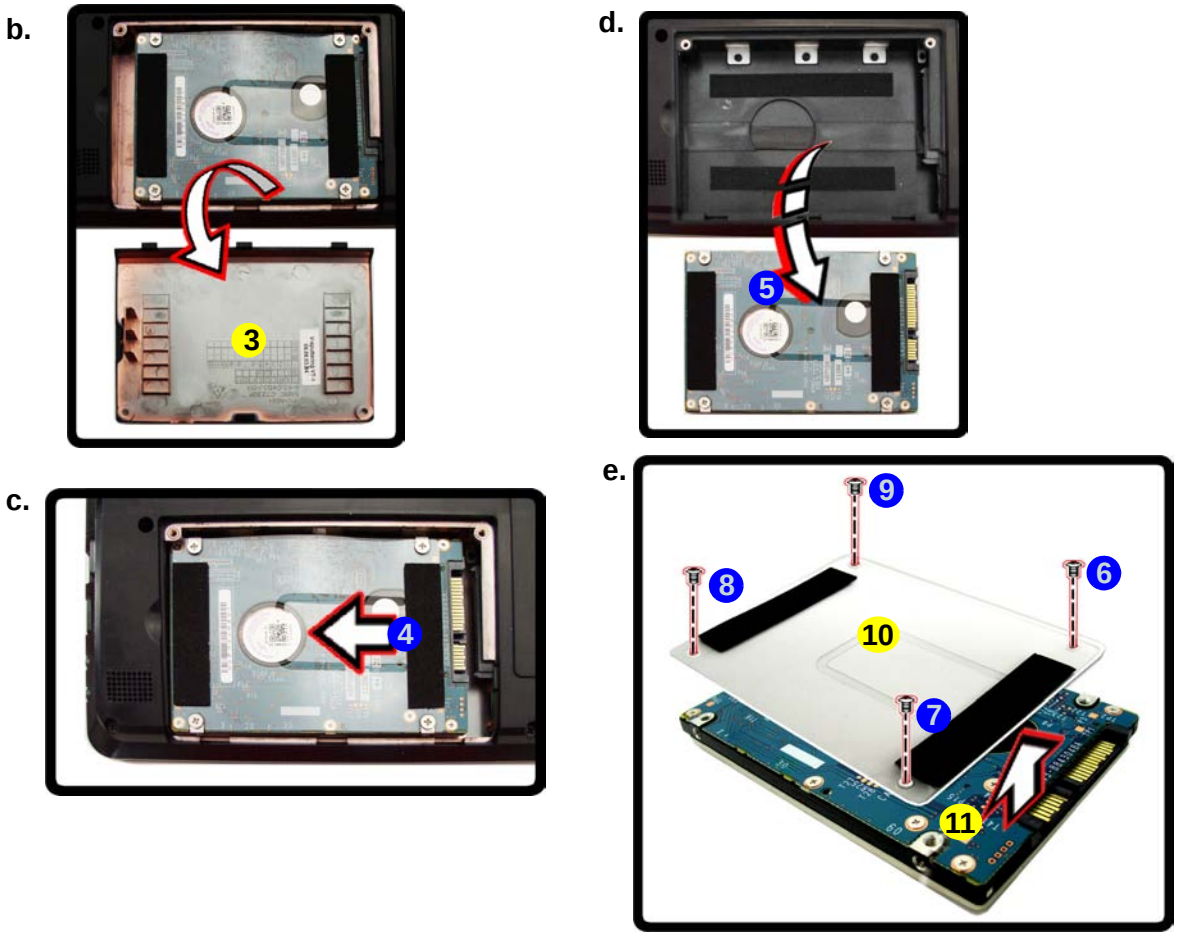
You have all the CD-ROMs and FDDs required to install your operating system and programs.

If you have access to the internet, download the latest application and hardware driver updates for the operating system you plan to install. Copy these to a removable medium.

3. Remove the hard disk bay cover 3.
4. Grip the tab and slide the hard disk in the direction of arrow 4.
5. Lift the hard disk out of the bay 5.
6. Remove the screw 6 - 9 and the adhesive cover 10 from the hard disk 11 .
7. Reverse the process to install a new hard disk (do not forget to replace all the screws and covers).

Figure 3
HDD Assembly Removal (cont'd.)

b. Remove the HDD bay cover.
c. Grip the tab and slide the HDD in the direction of the arrow.
d. Lift the HDD assembly out of the bay.
e. Remove the screw and adhesive cover.



3. HDD Bay Cover
10. Adhesive Cover
11. HDD

- 4 Screws

Figure 4
Optical Device Removal

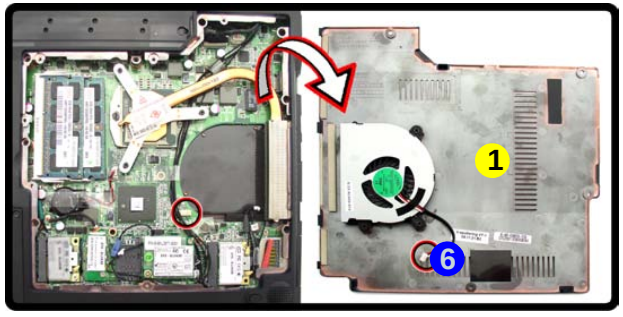
a. Remove the screws.
b. Remove the cover.
c. Remove the screw and push the optical device out off the computer at point 8.

Removing the Optical (CD/DVD) Device

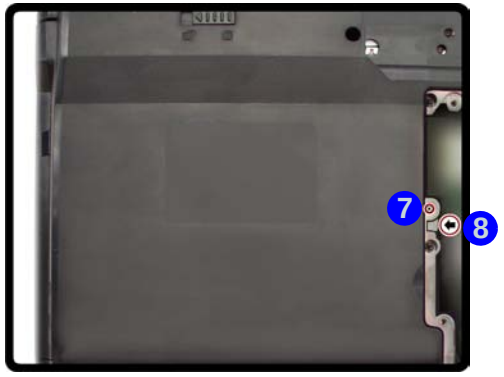
1. Turn **off** the computer, and remove the battery (*page 2 - 5*).
2. Locate the RAM & CPU bay cover 1, and remove screws 2 - 5.
3. Carefully (**a fan and cable are attached to the under side of the cover**) lift up the bay cover.
4. Carefully disconnect the fan cable 6, and remove the cover 1.
5. Remove the screw at point 7, and use a screwdriver to carefully push out the optical device 9 at point 8.
6. Insert the new device and carefully slide it into the computer (the device only fits one way. DO NOT FORCE IT; The screw holes should line up).
7. Restart the computer to allow it to automatically detect the new device.

a.

b.



c.



1. Component Bay Cover
9. Optical Device

- 5 Screws

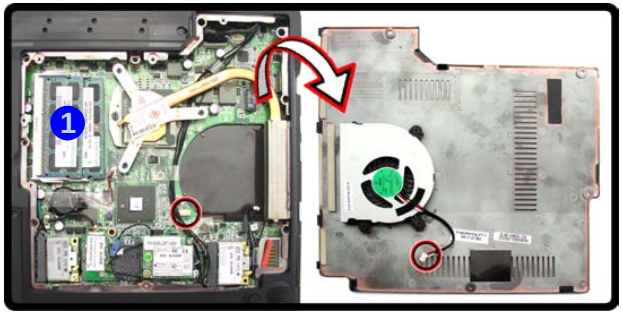
Removing the System Memory (RAM)

The computer has two memory sockets for 200 pin Small Outline Dual In-line Memory Modules (SO-DIMM) supporting **DDR3** 1066MHz. The main memory can be expanded up to 8GB. The SO-DIMM modules supported are 1GB, 2GB and 4GB and **DDRIII** Modules. The total memory size is automatically detected by the POST routine once you turn on your computer.

Memory Upgrade Process

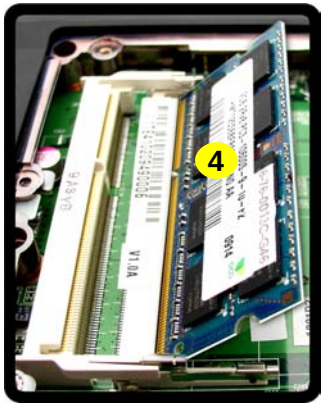
1. Turn **off** the computer, remove the battery (***page 2 - 5***) and the component bay cover (***page 2 - 8***).
2. The RAM module (s) will be visible at point 1 on the main board.
3. Gently pull the two release latches (2 & 3) on the sides of the memory socket in the direction indicated by the arrows (***Figure 6c***).

a.



b.

c.



4. The RAM module(s) 4 will pop-up (***Figure 6d***), and you can then remove it.
5. Pull the latches to release the second module if necessary.
6. Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
7. The module's pin alignment will allow it to only fit one way. Make sure the module is seated as far into the slot as it will go. DO NOT FORCE the module; it should fit without much pressure.
8. Press the module in and down towards the mainboard until the slot levers click into place to secure the module.

Figure 5
RAM Module Removal

a. Locare the memory socket.
b. Pull the release latch(es).
c. Remove the module(s).

Contact Warning

Be careful not to touch the metal pins on the module's connecting edge. Even the cleanest hands have oils which can attract particles, and degrade the module's performance.

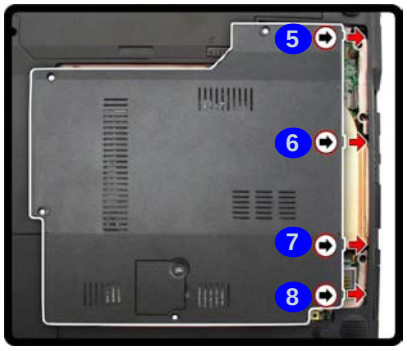
4. RAM Module

Figure 6
RAM Module Removal (cont'd.)

d. Properly re-insert the bay cover pins.

9. Replace the bay cover and screws (**make sure you reconnect the fan cable before screwing down the bay cover**).
Note that there are four 5 - 8 cover pins which need to be aligned with slots in the case, to insure a proper cover fit, before screwing down the bay cover.

d.



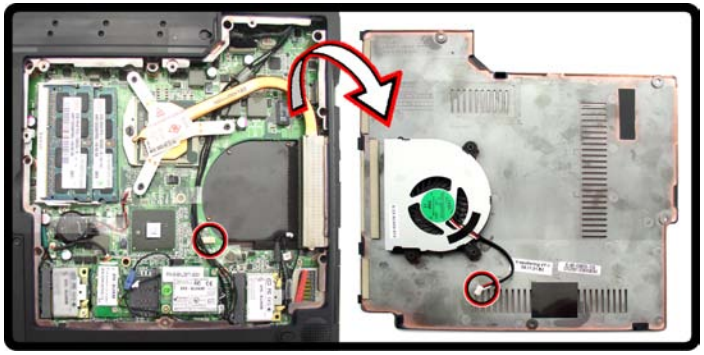
10. Restart the computer to allow the BIOS to register the new memory configuration as it starts up.

Removing and Installing the Processor

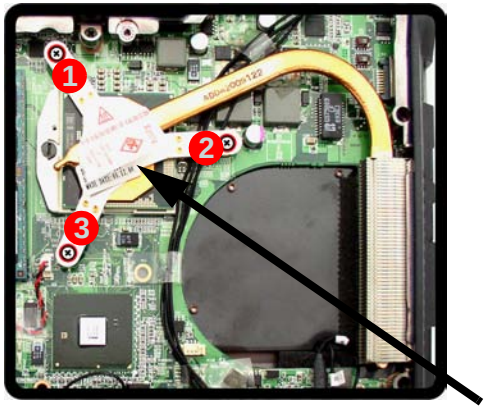
Processor Removal Procedure

1. Turn **off** the computer, remove the battery (*page 2 - 5*), and the component bay cover (*page 2 - 9*).
2. Loosen the CPU heat sink screws in the order 3, 2 & 1 (the reverse order as indicated on the label).
3. Carefully lift up the heat sink 4 (*Figure 7c*) off the computer.

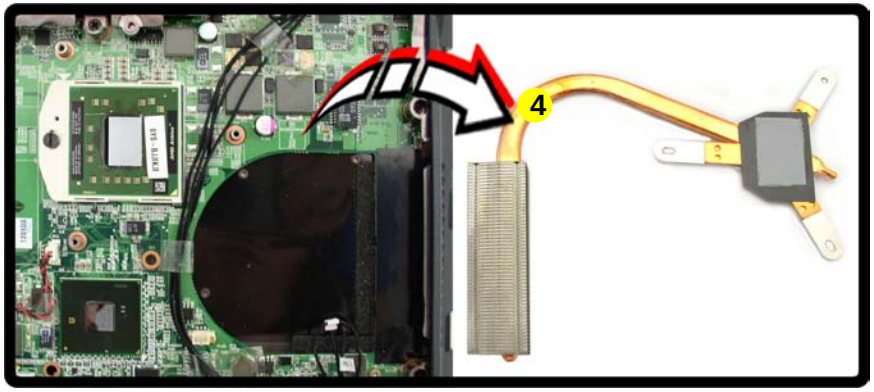
a.



b.



c.



Note: Loosen the screws in the reverse order 3, 2, 1 as indicated on the label.

Figure 7
Processor Removal

a. Remove the cover and locate the heat sink.
b. Loosen the screws in the order indicated.
c. Remove the heat sink.

CPU Warning

In order to prevent damaging the contact pins when removing the CPU, it is necessary to first remove the WLAN module from the computer.

4. Heat Sink

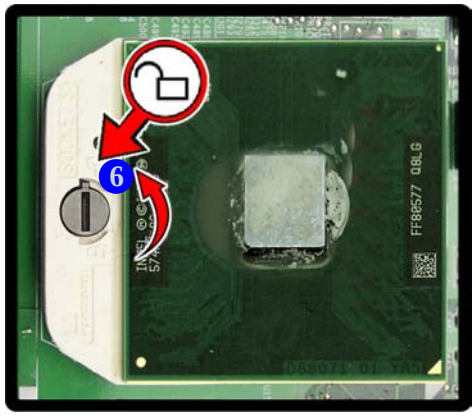
- 3 Screws

Figure 8
Processor Removal (cont'd)

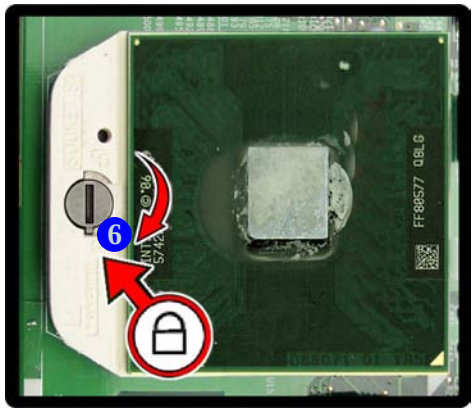
d. Turn the release latch to unlock the CPU.
e. Lift the CPU out of the socket.

4. Turn the release latch 6 towards the unlock symbol, to release the CPU (***Figure 8a***).
5. Carefully (it may be hot) lift the CPU 7 up out of the socket (***Figure 8b***).
6. See ***page 2 - 13*** for information on inserting a new CPU.
7. When re-inserting the CPU, pay careful attention to the pin alignment, it will fit only one way (DO NOT FORCE IT!).

d.

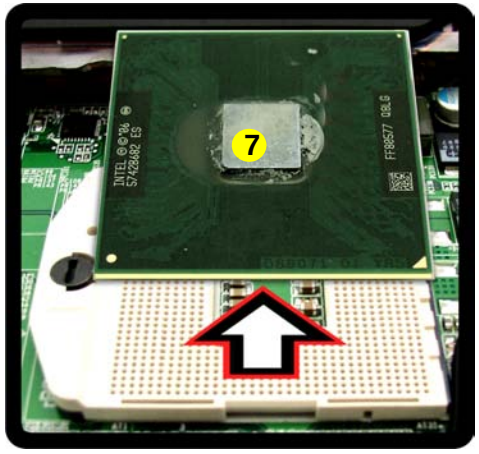


Unlock



Lock

e.



Caution

The heat sink, and CPU area in general, contains parts which are subject to high temperatures. Allow the area time to cool before removing these parts.

7. CPU

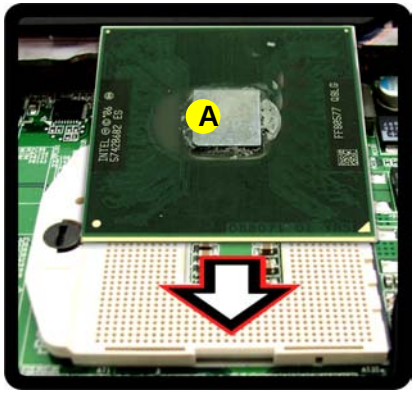
Processor Installation Procedure

1. Insert the CPU A, pay careful attention to the pin alignment, it will fit only one way (DO NOT FORCE IT!), and turn the release latch B towards the lock symbol (*Figure 9b*).
2. **Remove the sticker** C (*Figure 9c*) from the heat sink.
3. Insert the heat sink D as indicated in *Figure 9c*.
4. Tighten the CPU heat sink screws in the order 1, 2 & 3 (the order as indicated on the label and *Figure 9d*).
5. Replace the component bay cover and tighten the screws (*page 2 - 11*).

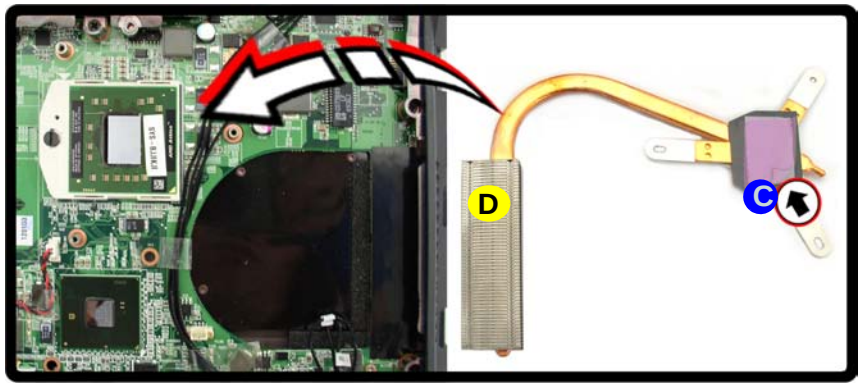
Figure 9
Processor Installation

a. Insert the CPU.
b. Turn the release latch towards the lock symbol.
c. Remove the sticker from the heat sink and insert the heat sink.
d. Tighten the screws.

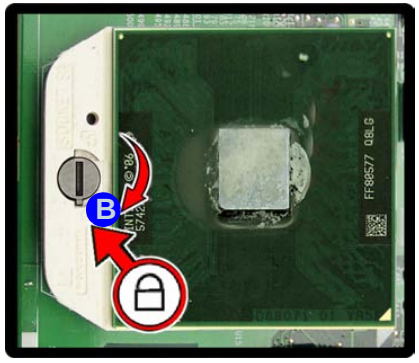
a.



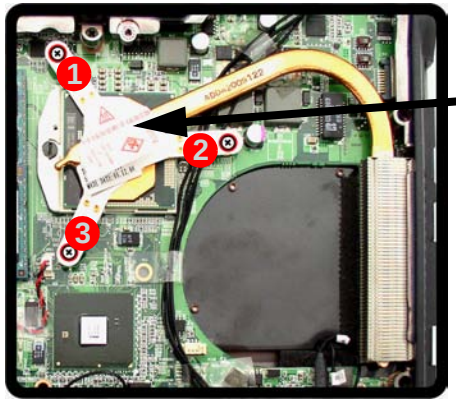
c.



b.



d.



Note:

Tighten the screws in the order 1, 2, 3 as indicated on the label.

A. CPU
D. Heat Sink

- 3 Screws

Figure 10
Wireless LAN Module Removal

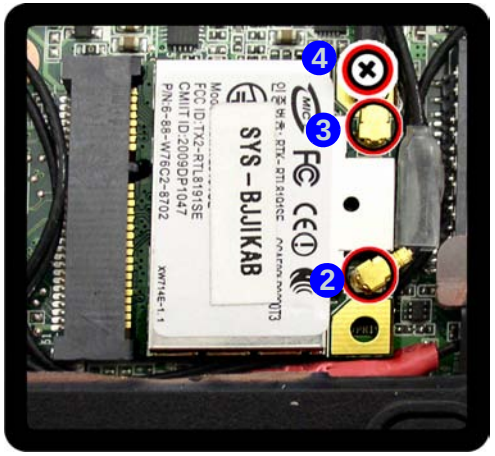
a. Remove the cover.
b. Disconnect the cables and remove the screw.
c. Lift the WLAN module out.

Removing the Wireless LAN Module

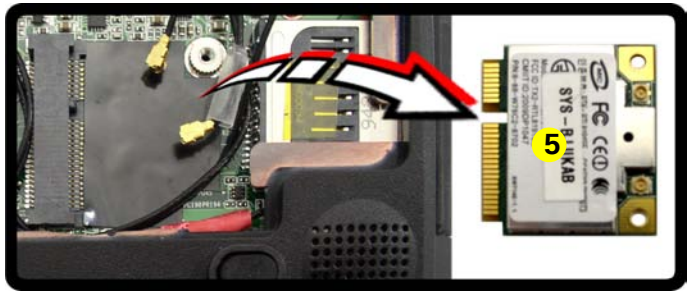
1. Turn **off** the computer, remove the battery (***page 2 - 5***) and the component bay cover (***page 2 - 9***).
2. The Wireless LAN module will be visible at point 1 on the mainboard.
3. Carefully disconnect cables 2 - 3, then remove screw 4 from the module socket.
4. Lift the Wireless LAN module 5 (***Figure 11d***) up and off the computer.

a.

b.



c.



5. WLAN Module.

- 1 Screw

Removing the 3.75G Module

1. Turn **off** the computer, remove the battery (*page 2 - 5*) and the component bay cover (*page 2 - 9*).
2. The 3.75G module will be visible at point 1 on the mainboard.
3. Carefully disconnect the cable 2, then remove the screw 3 from the module socket.
4. The 3.75G module 4 will pop-up.
5. Lift the 3.75G module (*Figure 11d*) up and off the computer.

Figure 11
3.75G Module Removal

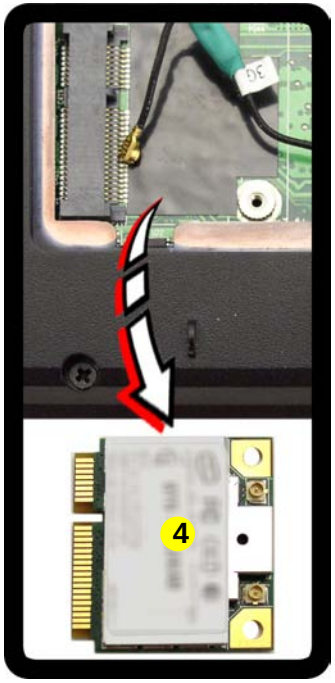
a. Remove the cover.
b. Disconnect the cable and remove the screw.
c. The 3.75G module will pop up.
d. Lift the 3.75G module out.

a.

b.

c.

d.



4. 3.75G Module.

- 1 Screw

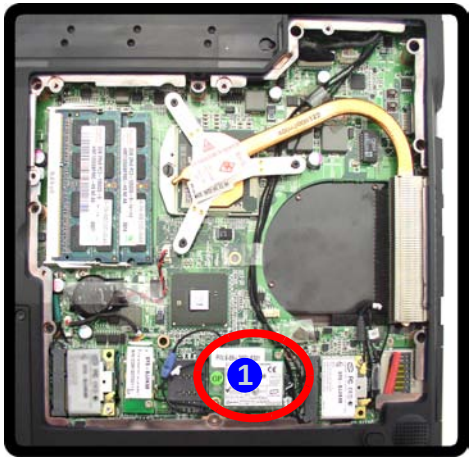
Figure 12
Modem Removal

a. Locate the modem.
b. Remove the screws and disconnect the cable.
c. Lift the modem up and off the sockets.

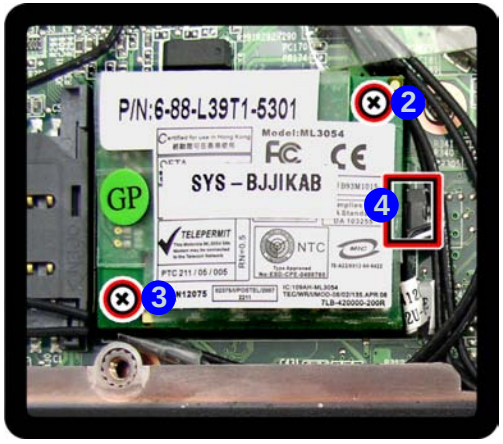
Removing the Modem

1. Turn **off** the computer, turn it over, and remove the battery (*page 2 - 5*) and the component bay cover (*page 2 - 9*).
2. The modem will be visible at point 1 on the mainboard.
3. Remove the screws 2 - 3 and disconnect the cable 4.
4. Carefully lift the modem 6 up and off the socket 5.

a.



b.



c.

6. Modem

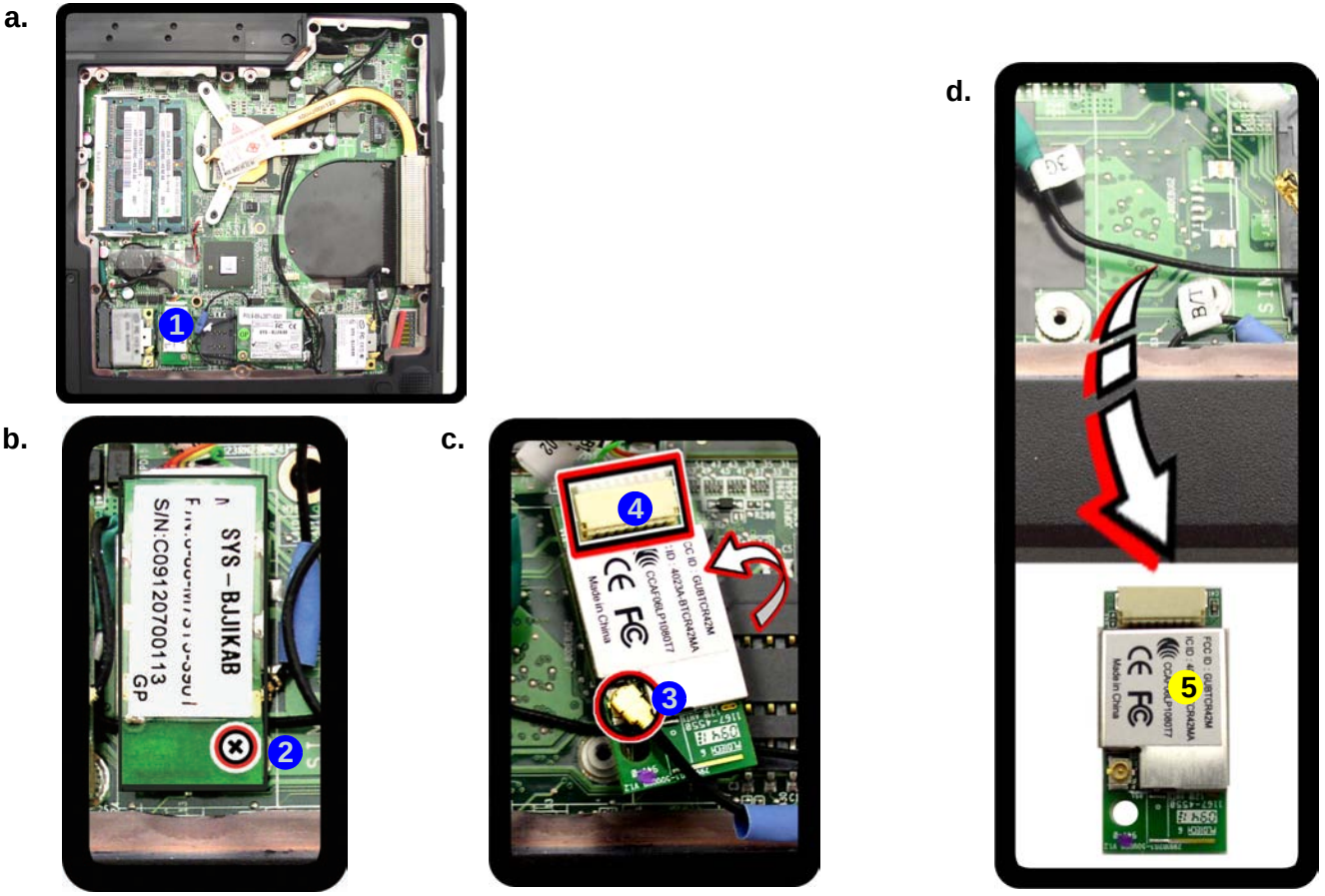
- 2 Screws

Removing the Bluetooth Module

1. Turn **off** the computer, remove the battery (*page 2 - 5*), and component bay cover (*page 2 - 9*).
2. The Bluetooth module will be visible at point 1 on the mainboard.
3. Remove the screw 2 and turn the module over.
4. Carefully disconnect the cable 3 and separate the connector 4 (*Figure 13b*) from the Bluetooth Module.
5. Lift the Bluetooth module 5 (*Figure 13c*) up and off the computer.

Figure 13
Bluetooth Module Removal

a. Locate the Bluetooth module.
b. Remove the screw.
c. Disconnect the cable and the connector from the Bluetooth module.
d. Lift the Bluetooth module out.



5. Bluetooth Module

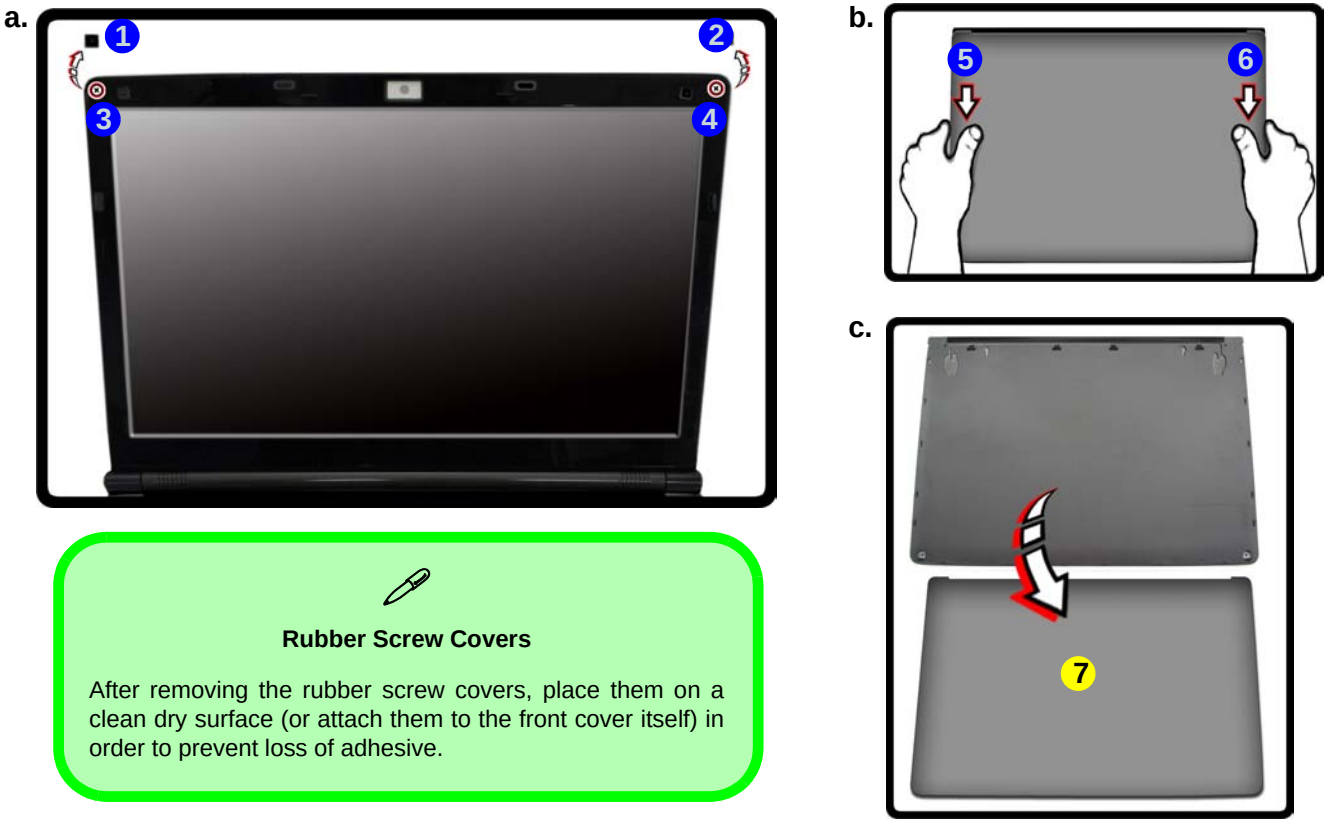
- 1 Screw

Removing the LCD Back Cover (for E4121D-C only)

1. Turn **off** the computer, and turn the computer over to remove the battery (*page 2 - 5*).
2. Open the LCD and carefully remove the rubber screw covers 1 & 2 (2 corner rubber screw covers only) and set them aside.
3. Remove screws 3 & 4 from the front cover.
4. Carefully slide the cover forward in the direction of the arrows 5 & 6 as illustrated below.
5. Remove the LCD back cover 7 .

Figure 14
LCD Back Cover Removal

a. Remove the rubber covers and screws.
b. Slide the cover forward.
c. Remove the LCD back cover.



7. LCD Back Cover

- 2 Screws

Rubber Screw Covers

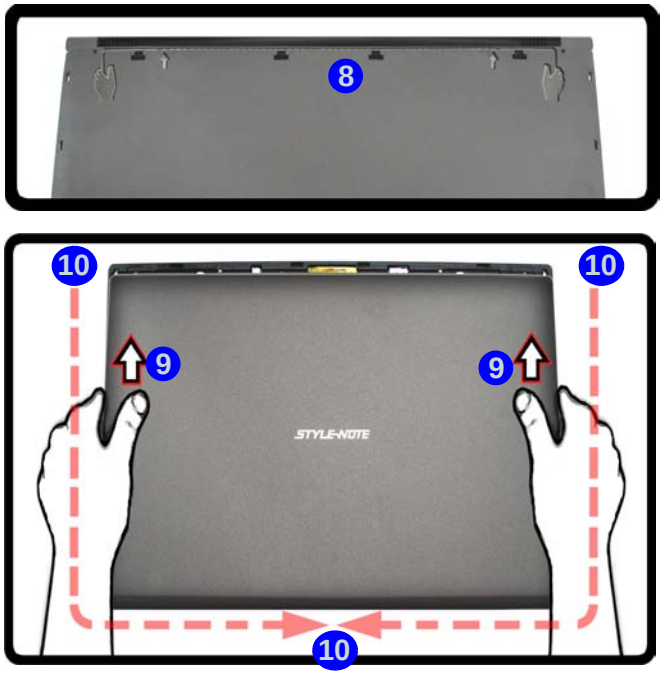
After removing the rubber screw covers, place them on a clean dry surface (or attach them to the front cover itself) in order to prevent loss of adhesive.

6. Align the replacement cover with the dotted line 8 as illustrated below (and as marked on the cover).

Figure 15
LCD Back Cover Removal (cont'd)

d. Align the replacement cover and slide forward to click firmly into place.

d.



7. Slide the back cover forward until it clicks firmly into place 9.
8. Run your hands around the sides and front of the cover 10 to make sure it is firmly aligned in place (carefully press down to make sure the fit is secure).
9. Replace the screws and rubber covers.

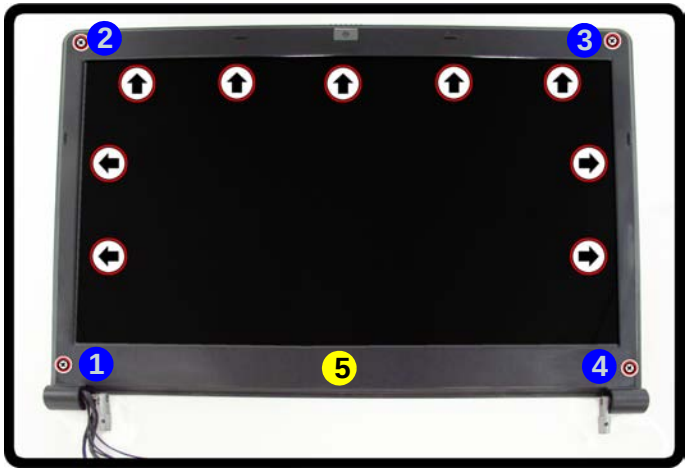
Figure 16
LCD Front Cover Removal

a. Remove the screws and unsnap the LCD front cover from the LCD panel.
b. Slide the LCD panel cover in the direction of the arrow.

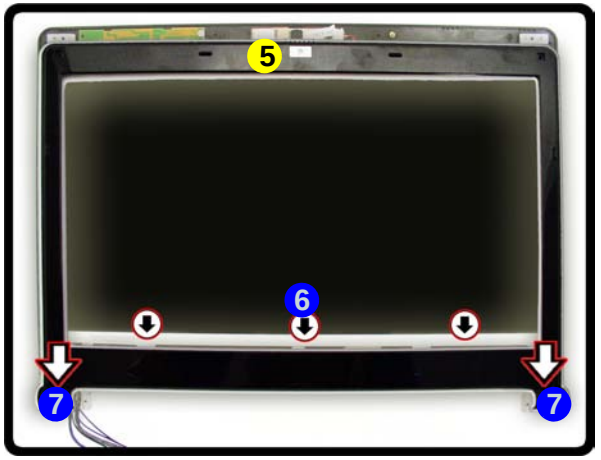
Removing the LCD Front Cover

1. Turn **off** the computer, and remove the battery (***page 2 - 5***), and remove the LCD back cover (***page 2 - 18***).
2. Remove the rubber covers and screws 1 - 4 (***Figure 16a***), then run your finger around the middle of the frame to carefully unsnap the LCD front cover 5 from the LCD panel.
3. After unsnapping all four sides of the LCD front cover, carefully slide the LCD front cover downwards in the direction of the arrow 6 (be careful of the LCD hinges at point 7).
4. You can now remove the LCD front cover.

a.



b.



5. LCD Front Cover

- 4 Screws

Rubber Screw Covers

After removing the rubber screw covers, place them on a clean dry surface (or attach them to the front cover itself) in order to prevent loss of adhesive.

Removing the Keyboard

1. Turn **off** the computer, and remove the battery (*page 2 - 5*).
2. Press the **four** keyboard latches at the top of the keyboard to elevate the keyboard from its normal position (you may need to use a small screwdriver to do this).
3. Carefully lift the keyboard up, being careful not to bend the keyboard ribbon cable (*Figure 17b*).
4. Disconnect the keyboard ribbon cable 5 from the locking collar socket 6.
5. Carefully lift up the keyboard 7 (*Figure 17c*) off the computer.

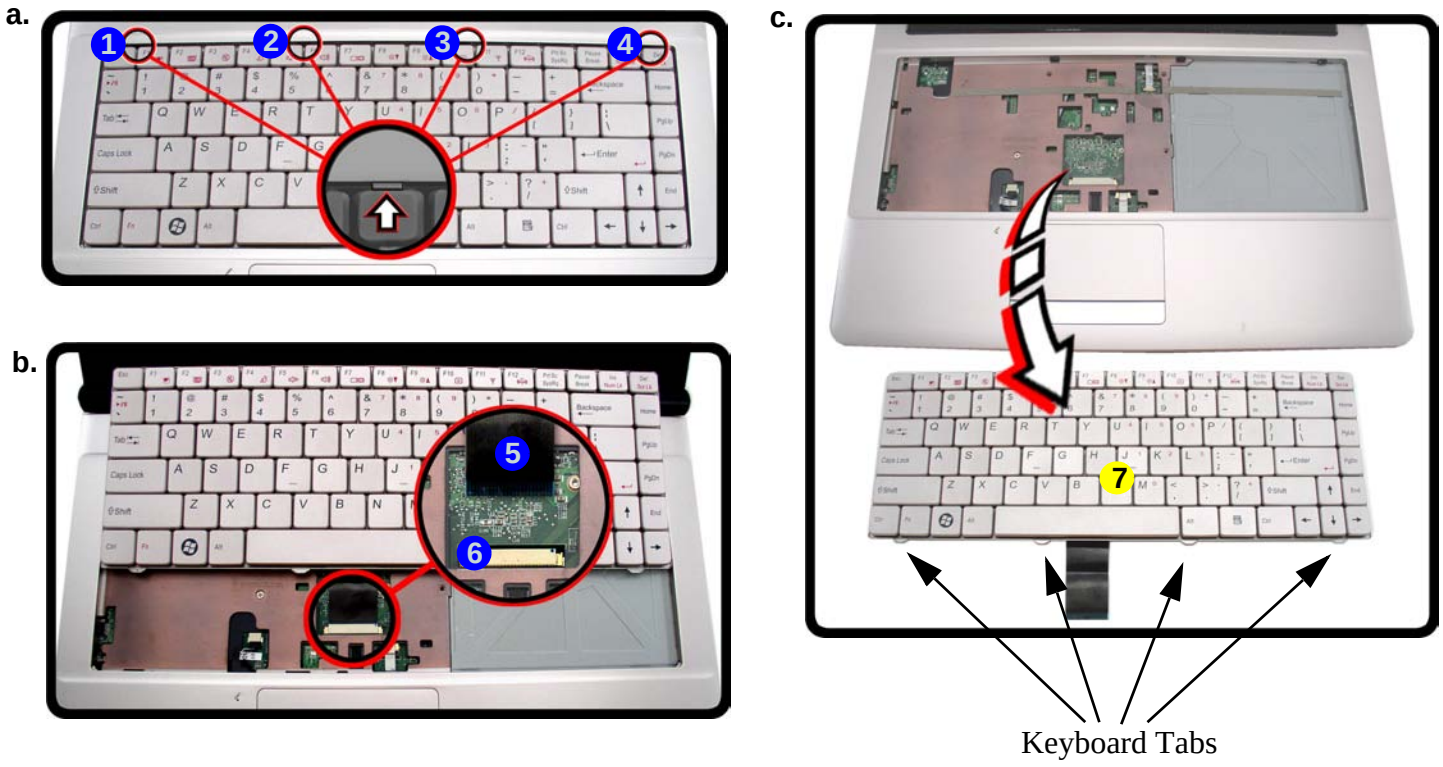


Figure 17
Keyboard Removal

a. Press the four latches to release the keyboard.
b. Lift the keyboard up and disconnect the cable from the locking collar.
c. Remove the keyboard.

Re-Inserting the Keyboard

When re-inserting the keyboard firstly align the **four** keyboard tabs at the bottom of the keyboard with the slots in the case.

7. Keyboard

Appendix A: Part Lists

This appendix breaks down the ***E4120 / E4121-C / E4125-C / E4121D-C*** series notebook's construction into a series of illustrations. The component part numbers are indicated in the tables opposite the drawings.

Note: This section indicates the *manufacturer's* part numbers. Your organization may use a different system, so be sure to cross-check any relevant documentation.

Note: Some assemblies may have parts in common (especially screws). However, the part lists DO NOT indicate the total number of duplicated parts used.

Note: Be sure to check any update notices. The parts shown in these illustrations are appropriate for the system at the time of publication. Over the product life, some parts may be improved or re-configured, resulting in *new* part numbers.

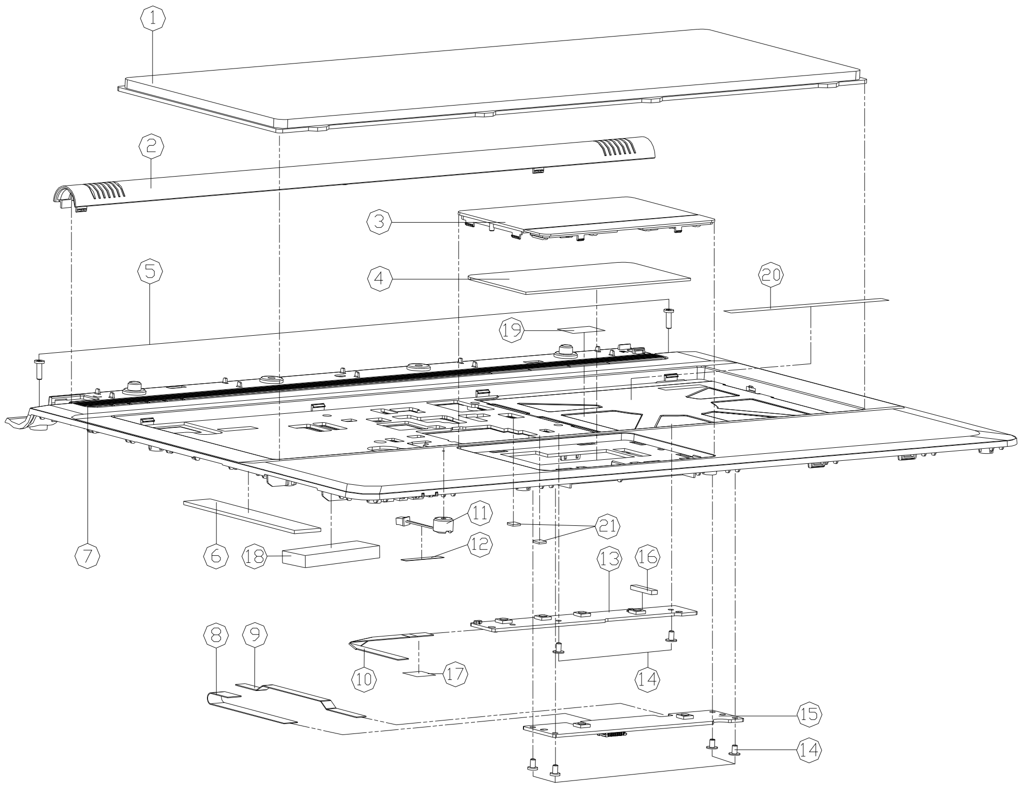
Part List Illustration Location

The following table indicates where to find the appropriate part list illustration.

Table A- 1
Part List Illustration Location

Parts	E4120	E4121-C	E4125-C	E4121D-C
Top	*page A - 3*		*page A - 4*	*page A - 3*
Bottom	*page A - 5*			
LCD	*page A - 7*		*page A - 7*	*page A - 8*
HDD	*page A - 9*			
Blu-Ray Combo	*page A - 10*			
DVD-Super Multi Drive	*page A - 11*			

Top (E4120 / E4121-C / E4121D-C)

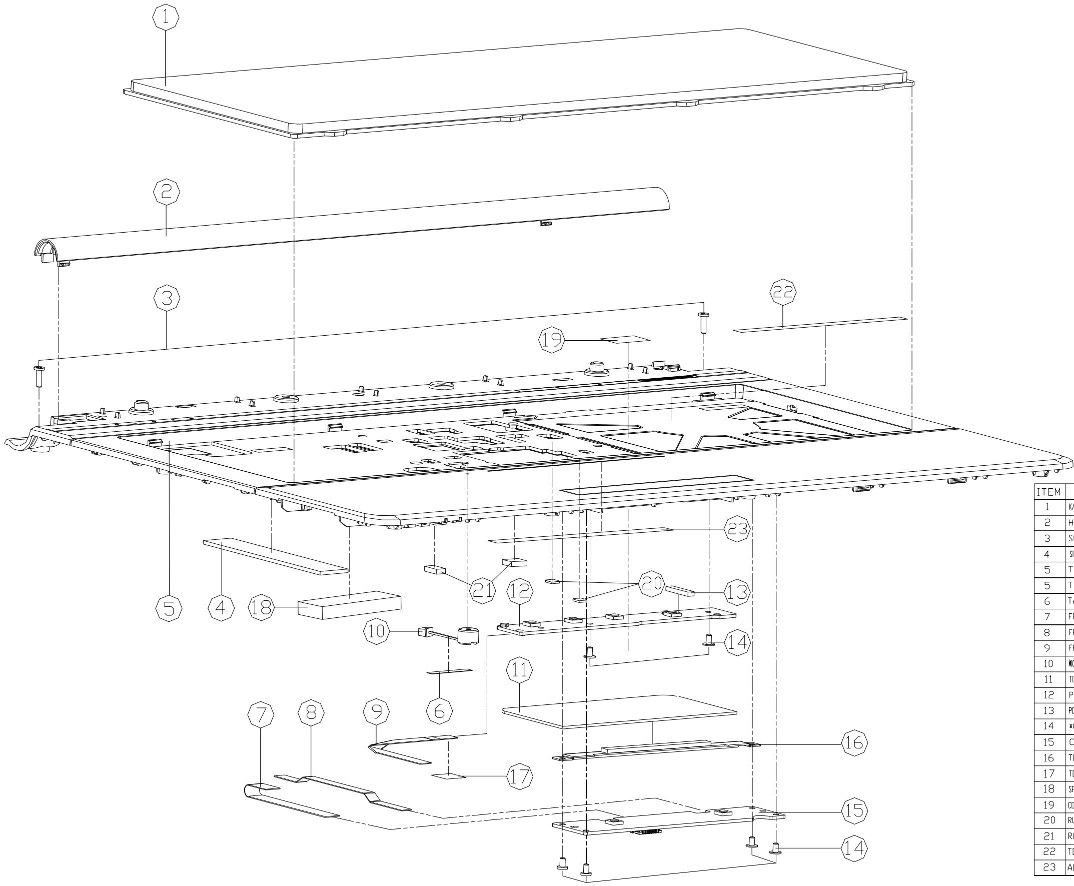


ITEM	PART NAME	PART NO	REMARK
1	K/B USA MP-07G33US64303 C4500 香檳銀色 WITH VISTA KEY	6-80-C4500-010-1	FOR E4120
1	K/B USA MP-07G33US-430 W840T黑色 WITH VISTA KEY	6-80-W84T0-011-1	FOR E4121-C
2	HINGE COVER (PC+ABS) C4500	6-42-C4502-071	FOR E4120
2	HINGE COVER (PC+ABS) C4501	6-42-C4512-031	FOR E4121-C
3	TP COVER MODULE C4500	6-42-C4502-101	FOR E4120
3	TP COVER MODULE C4501	6-42-C4512-100	FOR E4121-C
4	TOUCH PAD SYNAPTICS TM-01146-003 C4800	6-49-C4802-010	
5	SCREW M2.5*8L KI BK/Z NY ICT	6-35-B6125-8R0	
6	SPONGE FOR TOP CASE (57*6*2) (SM55+SONY G4000)	6-47-0019A-570	
7	TOP CASE MODULE C4500	6-39-C4502-014	FOR E4120
7	TOP CASE MODULE C4501 (cost down)	6-39-C4512-013-C	FOR E4121-C
8	FFC CABLE FOR TOUCH PAD 6PIN C4500	6-43-C4502-010	
9	FFC CABLE FOR M/B TO CLICK BOARD C4500	6-43-C4500-022	
10	FFC CABLE FOR M/B TO POWER BOARD C4500	6-43-C4500-031	
11	MIC 6MM*3.5(EM6035-FOL-U) 2V~10V 2.2K W/CABLE (灰色) L=40MM M540G	6-23-EM54G-012	
12	TAPE MYLAR (B),MYLAR M550J	6-40-M55J2-020	
13	POWER SWITCH BOARD V2.0 C4500	6-77-C450S-D02	
14	*(非耐落)SCREW M2*3L K1 NI ICT GTY-PATCH	6-35-B1120-3RE	
15	CLICK BOARD V2.0 C4500	6-77-C4502-D02	
16	POWER BOARD SPONGE (SM55+SONY G4000) C4500	6-47-C4502-021	
17	TOP CASE FFC MYLAR (PET+3M 467) C4500	6-40-C4502-030	
18	SPONGE SM55 (39*12.5*7.15) FOR TOP CASE E4120	6-47-0019A-390	
19	CONDUCTIVE CLOTH (25*15*0.5T) FOR TOP CASE E4120	6-47-E4122-010	
20	TOP CASE 導電布 (120*5*0.25T) C4500	6-47-C4502-030	
21	RUBBER (5.5*4*1.5t) SILICON 70 度M670SU黑色	6-47-M67U1-040	

Figure A - 1
Top
(E4120 / E4121-C)

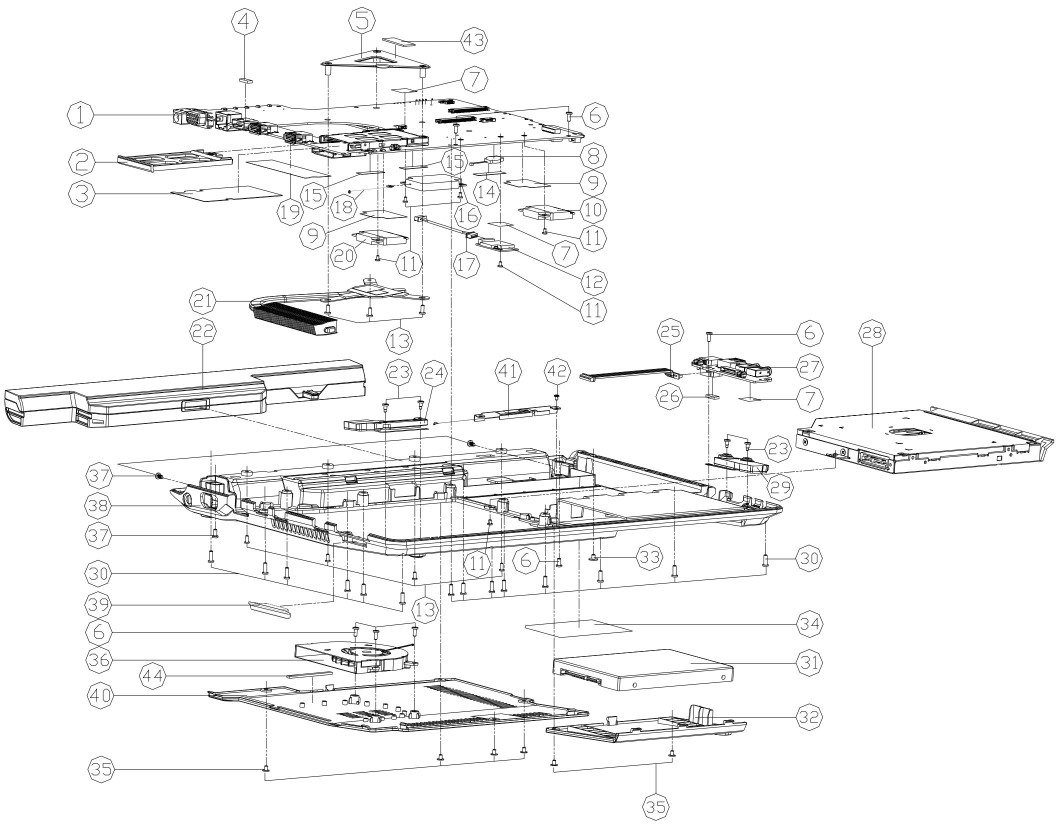
Top (E4125)

Figure A - 2
Top (E4125)



ITEM	PART NAME	PART NO	REMARK
1	K/B USA MP-07G33US-430 W840T黑色WITH VISTA KEY 無鉛	6-80-W84T0-011-1	
2	HINGE COVER (PC+ABS) C4505 無鉛	6-42-C4552-031	
3	SCREW M2.5*8L KI BK/Z NY ICT 無鉛	6-35-B6125-8R0	
4	SPONGE FOR TOP CASE (57*6*2) (SM55+SONY G4000) 無鉛	6-47-0019A-570	
5	TOP CASE MODULE C4505 無鉛	6-39-C4552-012	FOR E4125
5	TOP CASE MODULE C4505-C 無鉛	6-39-C4552-011-C	FOR E4125-C
6	TAPE MYLAR (B),MYLAR M550J 無鉛	6-40-M55J2-020	
7	FFC CABLE FOR TOUCH PAD 6PIN C4500無鉛	6-43-C4502-010	
8	FFC CABLE FOR M/B TO CLICK BOARD C4500 無鉛	6-43-C4500-022	
9	FFC CABLE FOR M/B TO POWER BOARD C4500 無鉛	6-43-C4500-031	
10	MIC 6MM*3.5(EM6035-FOL-U) 2V~10V 2.2K W/CABLE(灰色) L=40MM M540G 無鉛	6-23-EM54G-012	
11	TOUCH PAD SYNAPTICS TM-01146-003 C4800 無鉛	6-49-C4802-010	
12	POWER SWITCH BOARD V2.0 C4500 無鉛	6-77-C450S-D02	
13	POWER BOARD SPONGE (SM55+SONY G4000) C4500 無鉛	6-47-C4502-021	
14	*(非耐落)SCREW M2*3L K1 NI ICT GTY-PATCH無鉛	6-35-B1120-3RE	
15	CLICK BOARD V2.0 C4500 無鉛	6-77-C4502-D02	
16	TOUCHPAD PLATE MODULE C4505 無鉛	6-33-C4552-101	
17	TOP CASE FFC MYLAR (PET+3M 467) C4500 無鉛	6-40-C4502-030	
18	SPONGE SM55 (39*12.5*7.15) FOR TOP CASE E4120無鉛	6-47-0019A-390	
19	CONDUCTIVE CLOTH (25*15*0.5T) FOR TOP CASE E4120	6-47-E4122-010	
20	RUBBER (5.5*4*1.5t) SILICON 70 度 M670SU 黑色	6-47-M67U1-040	
21	RUBBER FOR TOP CASE (11*6T*5) C4505	6-47-C4552-030	
22	TOP CASE 導電布(120*5*0.25T) C4500	6-47-C4502-030	ONLY FOR E4125-C
23	AL+MYLAR (W6*L70*0.2)MM C4505	6-47-C4552-020	ONLY FOR E4125

Bottom



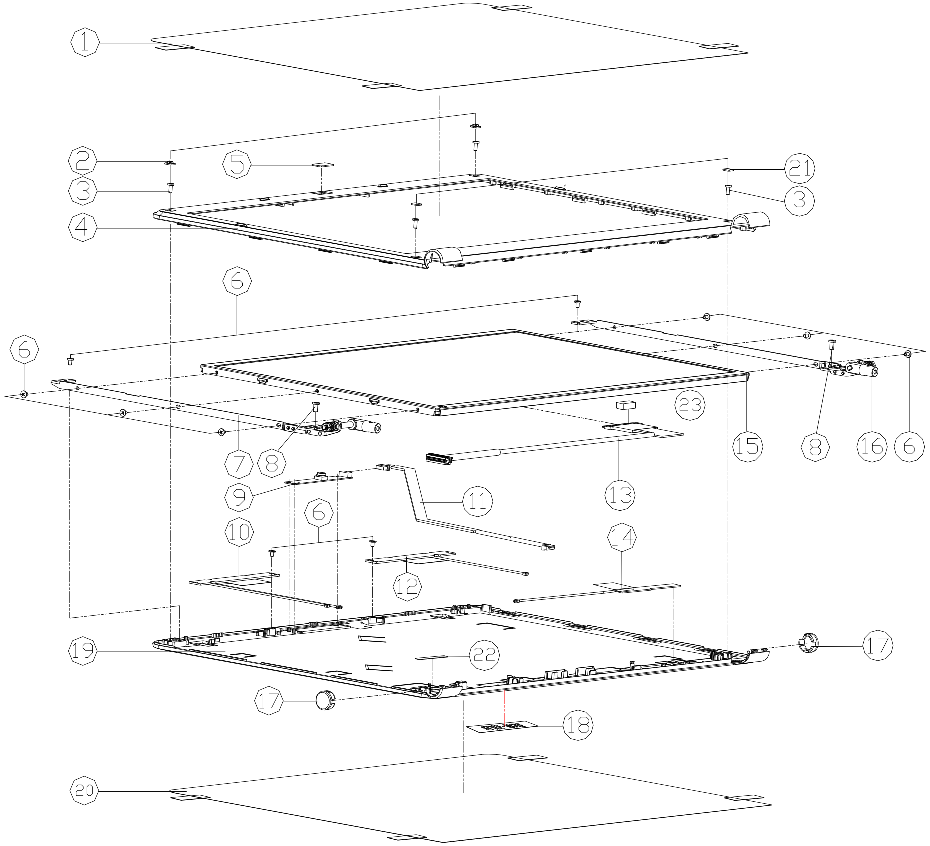
ITEM	PART NAME	PART NO	REMARK
1	MAIN BOARD V2.0 (W/3G) E4120 無鉛	6-77-E4120-D02	
1	MAIN BOARD V1.0A (W/O 3G) E4120 無鉛	6-77-E4120-D02A-1	
2	DUMMY NEW CARD (ABS+PC) C4500 無鉛	6-42-C4508-021	
3	MYLAR FOR NEW CARD (BLACK PET+SONY G4000) 無鉛	6-40-C450S-020	
4	GASKET (L10*W5*H1.5) FOR USB T890M 無鉛	6-47-00190-1A9	
5	SCREW M2.5*5L KI BK/Z ICT NY- 無鉛	6-33-E412S-010	
6	CPU SUPPORT BRACKET SECC E4120 無鉛	6-35-B6125-5RA	
7	AUDIO BOARD MYLAR 20*20*0.15T (黑色 PET+3M 467) C4500 無鉛	6-40-C450S-030	
8	BAT. 20MM 3V 220MAH W/CABLE 56MM CR2032-JH 無鉛	6-23-22015-T90	
9	3G HALF CARD MYLAR PET(30*22*0.1T) E4120 無鉛	6-40-E412S-010	
10	WCDMA HSPA EM775 HUAWEI HALF MIN-CARD(半卡) USB 3.75G S1100 無鉛	6-88-S110W-8810	(OPTION)
10	WCDMA HSPA HTM1000 MOTOROLA HALF MIN-CARD(半卡) USB 3.75G S1100 無鉛	6-88-S110W-9000	(OPTION)
11	*(非耐落)SCREW M2*3L KI NI ICT GTY-PATCH (OD=Ø4.0,DT=0.8)無鉛	6-35-B1120-3RD	
12	BLUETOOTH V2.1 QUNTERON-藍天7互億 8 PIN USB CSR BC04_A07 WITH MS BT SOFTWARE AND MIC LABEL 無鉛	6-88-M73T5-3901	
12	BLUETOOTH V2.1 BTC04R2808 凱碩 8 PIN USB CSR BC04 A07 (4039) WITH MS BT 無鉛	6-88-M77C5-5300	
13	SCREW M2*4L KI BZ ICT NY- 無鉛	6-35-B6120-4RA	
14	TAPE MYLAR (A),MYLAR M550J 無鉛	6-40-M55J2-010	
15	TAPE MYLAR (C),MYLAR M550J 無鉛	6-40-M55J2-030	
16	MODEM AZALIA+AC97 D40 AMS 凱碩 MDC 12 PIN AGERE (LOW POWER) W760S 無鉛	6-88-W76S1-5300	(OPTION)
16	MODEM AZALIA+AC97 ML3054(2.0) 凱碩 MDC 12 PIN MOTOROLA (LOW POWER) L390T 無鉛	6-88-L39T1-5301	(OPTION)
16	MODEM AZALIA+AC97 V56(VOL-MICNT-ROHS) 亞旭 MDC 12 PIN MOTOROLA (LOW POWER) 無滷 M760S 無鉛	6-88-M76S1-8111	(OPTION)
16	MODEM AZALIA+AC97 D40 AMS (V56VOL-160MT-ROHS) 亞旭 MDC 12 PIN AGERE (LOW POWER) W760H 無鉛	6-88-W76H1-8110	(OPTION)
17	WIRE CABLE 6PIN M/B TO 8PIN BLUETOOTH MODULE FOR M760S 無鉛	6-43-M76SB-011	
18	MDC CABLE 2P 華力 E4120 無鉛	6-43-E412U-010	
19	MYLAR FOR M/B FIN C4500 無鉛	6-40-C450S-010	
20	WLAN 802.11BGN RTL8191SE 展達 WN7E HALF MINI-CARD PCI-E RTL8191SE 電容變更 R30 DELETE 無鉛	6-88-W76C2-8702	(OPTION)
20	WLAN 802.11BGN RTL8191SE 微星 MS-6897 HALF MINI-CARD PCI-E 變更 LABEL R30 DELETE 無鉛	6-88-C4802-4702	(OPTION)
20	WLAN 802.11BGN RTL8191SE 海華 AW-NE104H HALF MINI-CARD PCI-E RTL8191SE W760C R30 DELETE 無鉛	6-88-W76C2-7001	(OPTION)
20	WLAN 802.11N+G+N INTEL CONDOR PEAK WIFI LINK 1000 112BN_HMWG 1X2 MINI-CARD PCI-E (半卡) NEW 無鉛	6-88-M77C2-4200	(OPTION)
20	WLAN 802.11N+G+N INTEL PUMA PEAK WIFI LINK 6200 622AN_HMWG 2X2 MINI-CARD PCI-E (半卡) NEW 無鉛	6-88-M77C2-4210	(OPTION)
21	CPU THERMAL MODULE E4120 無鉛	6-31-E412N-102	
22	BAT.P S LI 11.1V/4.4AH/48.84WH 3S2P SMP/BAK 980T2007 F C4800 無鉛	6-87-C480S-4P42	(OPTION)
22	BAT.P S LI 11.1V/4.4AH/48.84WH 3S2P MITAC/LISHEN 541382960002 C4800 無鉛	6-87-C480S-4G4	(OPTION)
23	SCREW M2*6.2L NI ICT NY FOR SPEAKER 無鉛	6-35-Z1120-6R2	
24	SPK+CABLE L Ø20*T5.2 2.5W 8? 36MM P18CUG08LF-A C4800 紘立無鉛	6-23-5C480-022	
25	WIRE CABLE 14PIN M/B TO AUDIO 133MM C4500 無鉛	6-43-C4500-013	
26	GASKET (12*5*4) W:5MM H:4MM L:12MM FOR 1394 無鉛	6-47-00190-120	
27	PHONE JACK & USB & RJ11 BOARD V1.0 C4100 無鉛	6-77-C410A-D01	
28	SATA DVD SUPER MULTI ASS'Y (OPTION) 無鉛	6-79-E412000Q-010	
28	SATA BLU-RAY COMBO 4X HLDS(CT10N)WH06 ASS'Y (OPTION) 無鉛	6-79-E412000W-010	
28	SATA DVD SUPER MULTI 8X HLDS(GT30N) ASS'Y (OPTION) 無鉛	6-79-C450000Q-020	
28	SATA DVD SUPER MULTI ASS'Y (OPTION) 無鉛	6-79-C480000Q-060	
29	SPK+CABLE R Ø20*T5.2 2.5W 8? 25MM P18CUG08LF-A C4800 紘立無鉛	6-23-5C480-012	
30	SCREW M2.5*8L KI BK/Z NY ICT 無鉛	6-35-B6125-8R0	
31	W/O HDD ASS'Y C4800 無鉛	6-79-C480000J-010	
32	HDD COVER MODULE C4500 無鉛	6-42-C450J-102	FOR E412X
32	HDD COVER MODULE C4500-C 無鉛	6-42-C450J-100-C	FOR E412X-C
33	SCREW M2*2L KI BK/Z ICT NY (Ø6,T=0.5) 無鉛	6-35-B6120-2RC	
34	PRODUCT LABEL FOR E4120 無鉛	6-45-E4120003-011	
34	PRODUCT LABEL FOR E4121-C 無鉛	6-45-E4121C03-011	
34	PRODUCT LABEL FOR E4125 無鉛	6-45-E4125003-011	
35	SCREW M2.5*3L K1 BZ ICT NY- 無鉛	6-35-B6125-3R0	
36	FAN+CON. 65*60*8.1 5V 0.35A AB6505HX-J03 4350RPM ADDA C4500 無鉛	6-23-AC450-012	
37	SCREW M2.5*5L 頭厚 0.4MM KI BK/Z ICT NY 無鉛	6-35-B6125-5R0	
38	BOTTOM CASE MODULE C4500(理線槽減膠)	6-39-C4503-015	FOR E412X
38	BOTTOM CASE MODULE(設變理線)C4500-C	6-39-C4503-013-C	FOR E412X-C
39	DUMMY CARD READER (黑色 SILICON+KE5612G,硬度 60 度+NITTO 5114) C4500 無鉛	6-47-C4508-011	
40	CPU COVER MODULE C4500 無鉛	6-42-C4503-102	FOR E412X
40	CPU COVER MODULE C4500-C 無鉛	6-42-C4503-100-C	FOR E412X-C
41	ANTENNA WIMAX 2.4G/3.7G/5G PIFA WN3 155MM 精乘 E4120 無鉛	6-23-7E412-020	
42	*(非耐落)SCREW M2*3L K1 NI ICT GTY-PATCH 無鉛	6-35-B1120-3RE	
43	M/B TOP RUBBER (35*11*1T MM) SILICONE E4120	6-47-E412S-010	
43	SPONGE(61.5*6*2.5) (SM55+SONY G4000) C4800	6-47-0019A-610	

Figure A - 3
Bottom

A.Part Lists

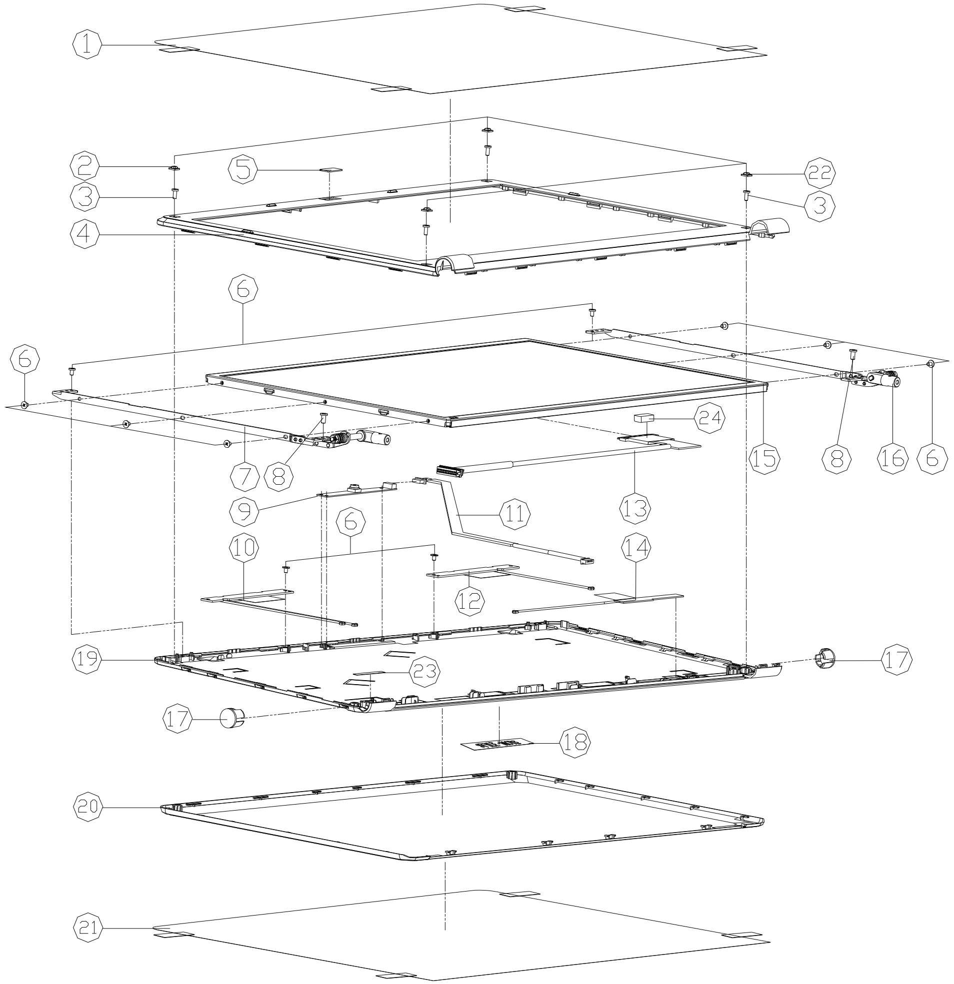
LCD (E4120 / E4121-C)

Figure A - 4
LCD
(E4120 / E4121-C)



ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER PROTECTION MYLAR (PET+3M8915) C4500 無鉛	6-40-C4501-011	
2	LCD FRONT COVER SCREW RUBBER SLICON C4500 無鉛	6-47-C4501-031	
3	SCREW M2*5L KI(T=0.8 D=4.0) BK/Z ICT NY 無鉛	6-35-B6120-5R0	
4	LCD FRONT COVER MODULE C4500 無鉛	6-39-C4501-012	
5	CCD 銘板 PMMA M810L 無鉛	6-42-M8101-011	
5	W/O CCD LENS PMMA 0.5T C4800無鉛	6-42-C480T-010	
6	*(非耐落)SCREW M2*3L K1 NI ICT GTY-PATCH 無鉛	6-35-B1120-3RE	
7	LCD HINGE-L SECC C4500 無鉛	6-33-C4501-011	
8	SCREW M2.5*5L KI BK/Z ICT NY-無鉛	6-35-B6125-5RA	
9	UVC CAMERA CHICONY FIX CNF9121 1.3M OV9665 無鉛	6-88-M74TC-5100	FOR E412X
9	UVC CAMERA BISON FIX BN28M6SA8-000 1.3M M810L 無鉛	6-88-M810C-4910	OPTION
9	UVC CAMERA SUPERTECH FIX 900-CV5-1VFF-01 1.3M OV9665 W830T 無鉛	6-88-W83TC-8900	OPTION
10	ANTENNA COMBO WIMAX 2.4G/3.7G/5G PCB COMBO H=1MM WM1=585MM WM2=585MM 精乘 無鉛	6-23-7C450-032	FOR C45XX/E412X
10	ANTENNA COMBO WIMAX 2.4G/3.7G/5G PCB COMBO H=1MM WM1=420MM WM2=420MM 精乘C4800 無鉛	6-23-7C480-020	FOR C48XX
11	WIRE CABLE FOR CCD 5P 310.5MM C4500 (華力)無鉛	6-43-C450T-011	
12	ANTENNA WCDMA PCB 3G H=1MM 840MM精乘 (銅箔接地)無鉛	6-23-7C480-010	FOR C48XX
12	ANTENNA WCDMA PCB 3G H=1MM 795MM 精乘C4500無鉛	6-23-7C450-012	FOR C45XX
12	ANTENNA WCDMA PCB 3G 860MM 精乘 E4120無鉛	6-23-7E412-010	FOR E412X
13	WIRE CABLE FOR LVDS 300MM C4800 (今皓 / 泰林 CONN) 無鉛	6-43-C4801-090	EXCEPT FOR 6-50-J8152-G01 FOR C45XX/C48XX/E412X
13	WIRE CABLE FOR LVDS 215MM C4800 (華力 / 訊裕 CONN) 無鉛	6-43-C4801-041	ONLY FOR 6-50-J8152-G01 ONLY FOR C48XX
14	ANTENNA BLUETOOTH 2.4G PCB H=1MM 645MM 精乘C4500無鉛	6-23-7C450-022	FOR C45XX/E412X
14	ANTENNA BLUETOOTH 2.4G PCB H=1MM 480MM 精乘C4800無鉛	6-23-7C480-030	FOR C48XX
15	LCD 14.0" HD AU B140XW01 V.2 (GLARE TYPE) 無鉛	6-50-J8152-G01	FOR C48XX
15	LCD 14.0" HD LG LP140WH1-TLA1 GLARE TYPE 無鉛	6-50-J8152-L00	FOR C48XX/E412X
15	LCD 14.0" HD INNOLUX BT140GW01 V.0 GLARE TYPE 無鉛	6-50-J8152-V00	FOR C45XX/C48XX
15	LCD 14.0" HD AU B140XW01 V.0 GLARE TYPE (LED) 5.2MM 無鉛	6-50-J8152-G00	FOR C48XX
15	LCD 14.0" HD CHIMEI N140B6-L02 GLARE TYPE 無鉛	6-50-J8152-D00	FOR C45XX/E412X
15	LCD 14.0" HD HANNSTAR HSD140PHW1-A00 GLAR 無鉛	6-50-J8152-N00	FOR C45XX
15	LCD 14.0" HD BOE HT140WXB-100 GLARE TYPE 無鉛	6-50-J8152-H00	FOR E412X
16	LCD HINGE-R SECC C4500 無鉛	6-33-C4501-021	
17	HINGE COSMETIC RING ABS PA727 C4500 無鉛	6-42-C4508-011	FOR C4500
17	HINGE COSMETIC RING ABS PA727 C4501 無鉛	6-42-C4518-010	FOR C4501
18	STYLE NOTE中性LOGO電鑄薄膜鍍亮鉻(字體連結) M741S 無鉛	6-45-M741S-020	
19	LCD BACK COVER MODULE PC+ABS C7230P FOR C4801M無鉛	6-39-C4801-021-M	一般漆
19	LCD BACK COVER MODULE C4500 無鉛	6-39-C4501-022	FOR C4500/E4120
19	LCD BACK COVER MODULE C4500-C 無鉛	6-39-C4501-022-C	FOR C4500-C/E4120-C
19	LCD BACK COVER MODULE C4501(cost down) 無鉛	6-39-C4511-021-C	FOR C4501-C/E4121-C
19	LCD BACK COVER MODULE C4501 無鉛	6-39-C4511-021	FOR C4501
19	BACK COVER IMR MODULE FOR C4800Q 無鉛	6-39-C4801-020-Q	FOR C4800Q
19	LCD BACK COVER MODULE IMR C4801Q-C 無鉛	6-39-C4511-Q21-C	FOR C4801Q-C
19	LCD BACK COVER MODULE IMR (GLEE"NEO") C4801Q-C 無鉛	6-39-C4511-Q21-EC	FOR C4801Q-C
20	BACK COVER PROTECTION MYLAR(8B35+3M8915) C4500 無鉛	6-40-C4501-020	FOR C4500
20	BACK COVER PROTECTION MYLAR(PET+3M8915) C4501 無鉛	6-40-C4511-010	FOR C4501
21	FRONT COVER PC FOR SCREW C4500 無鉛	6-40-C4501-071	
22	TAPE MYLAR (B),MYLAR M550J 無鉛	6-40-M55J2-020	
23	GASKET (10*6*6) FOR TV CONN. TOP CASE M570TU 無鉛	6-47-00190-102	

LCD (E4125)

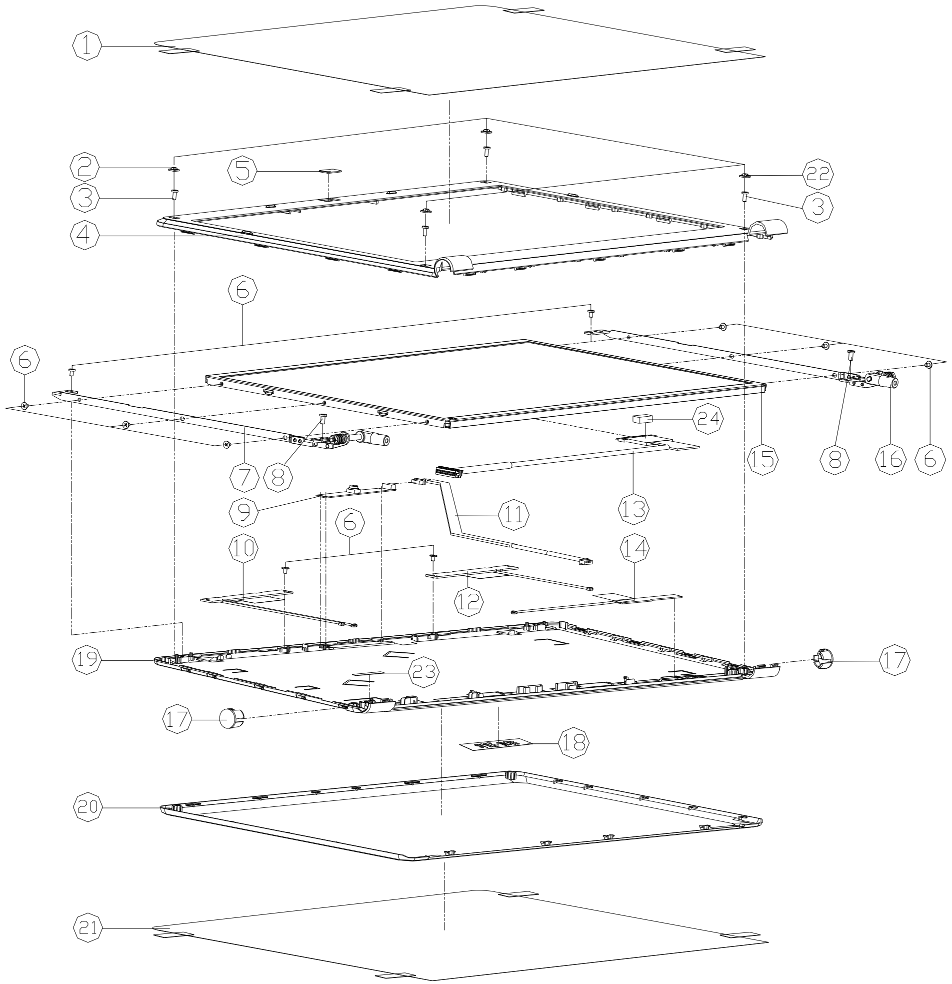


ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER PROTECTION MYLAR (PET+3M8915) C4500 無鉛	6-40-C4501-011	
2	LCD FRONT COVER SCREW RUBBER SLICON C4500 無鉛	6-47-C4501-031	
3	SCREW M2*5L K1(T=0.8 D=4.0) BK/Z ICT NY 無鉛	6-35-B6120-5R0	
4	LCD FRONT COVER MODULE C4500 無鉛	6-39-C4501-012	
5	CCD 銘板 PMMA M810L 無鉛	6-42-M8101-011	
5	W/O CCD LENS PMMA 0.5T C4800 無鉛	6-42-C480T-010	
6	*(非耐落)SCREW M2*3L K1 NI ICT GTY-PATCH 無鉛	6-35-B1120-3RE	
7	LCD HINGE-L SECC C4500 無鉛	6-33-C4501-011	
8	SCREW M2.5*5L KI BK/Z ICT NY-無鉛	6-35-B6125-5RA	
9	UVC CAMERA CHICONY FIX CNF9121 1.3M OV9665 無鉛	6-88-M74TC-5100	OPTION
9	UVC CAMERA BISON FIX BN28M6SA8-000 1.3M M810L 無鉛	6-88-M810C-4910	OPTION
9	UVC CAMERA SUPERTECH FIX 900-CV5-1VFF-01 1.3M OV9665 W830T 無鉛	6-88-W83TC-8900	OPTION
10	ANTENNA COMBO WIMAX 2.4G/3.7G/5G PCB COMBO H:1MM WM1=420MM WM2=420MM 精乘 C4800 無鉛	6-23-7C480-020	FOR C4801M
10	ANTENNA COMBO WIMAX 2.4G/3.7G/5G PCB COMBO H=1MM WM1=585MM WM2=585MM 精乘 C4500 無鉛	6-23-7C450-032	FOR C45XX
11	WIRE CABLE FOR CCD 5P 310.5MM C4500 (華力)無鉛	6-43-C450T-011	
12	ANTENNA WCDMA PCB 3G H=1MM 840MM 精乘 (銅箔接地)無鉛	6-23-7C480-010	FOR C4801M
12	ANTENNA WCDMA PCB 3G 860MM 精乘 E4120 無鉛	6-23-7E412-010	FOR E412X
13	WIRE CABLE FOR LVDS 300MM C4800(今皓 / 泰林 CONN) 無鉛	6-43-C4801-090	EXCEPT FOR 6-50-J8152-G01 AU B140XW01 V.2 FOR C45XX/C48XX/E412X
13	WIRE CABLE FOR LVDS 215MM C4800 (華力 / 訊裕 CONN) 無鉛	6-43-C4801-041	ONLY FOR 6-50-J8152-G01 AU B140XW01 V.2 ONLY FOR C48XX
14	ANTENNA BLUETOOTH 2.4G PCB H=1MM 480MM 精乘 C4800 無鉛	6-23-7C480-030	FOR C48XX
14	ANTENNA BLUETOOTH 2.4G PCB H=1MM 645MM 精乘 C4500 無鉛	6-23-7C450-022	FOR C45XX/E412X
15	LCD 14.0" HD AU B140XW01 V.2 (GLARE TYPE) 無鉛	6-50-J8152-G01	
15	LCD 14.0" HD INNOLUX BT140GW01 V.0 GLARE TYPE 無鉛	6-50-J8152-V00	
15	LCD 14.0" HD AU B140XW01 V.0 GLARE TYPE (LED) 5.2MM 無鉛	6-50-J8152-G00	
15	LCD 14.0" HD CHIMEI N140B6-L02 GLARE TYPE 無鉛	6-50-J8152-D00	
15	LCD 14.0" HD BOE HT140WXB-100 GLARE TYPE 無鉛	6-50-J8152-H00	
15	LCD 14.0" HD LG LP140WH1-TLA1 GLARE TYPE 無鉛	6-50-J8152-L00	
16	LCD HINGE-R SECC C4500 無鉛	6-33-C4501-021	
17	HINGE COSMETIC RING ABS PA727 C4501 無鉛	6-42-C4518-010	
18	STYLE NOTE 中性 LOGO 電鑄薄膜鍍亮鉻(字體連結) M741S	6-45-M741S-020	
19	MIDDLE COVER MODULE C4801M 無鉛	6-39-C4801-031-M	FOR C4801M
19	MIDDLE COVER MODULE C4801M-C 無鉛	6-39-C4801-031-MC	FOR C4801M-C FOR E4121D-C
20	LCD BACK COVER PC+ABS 7230P FOR MOFA C4801M 無鉛	A6-39-C4801-02B-M	FOR MOFA
20	LCD BACK COVER MODULE PC+ABS C7230P FOR C4801M 無鉛	6-39-C4801-021-M	FOR C4801M-C FOR E4121D-C
20	IMR BACK COVER PC+ABS C7230P E412P-C 無鉛	6-39-E4121-02A-C	FOR E4121D-C
21	BACK COVER PROTECTION MYLAR(8B35+3M8915) C4500 無鉛	6-40-C4501-020	FOR E4121M/D-C
21	BACK COVER PROTECTION MYLAR(PET+3M8915) C4501 無鉛	6-40-C4511-010	FOR C4801M/-C
22	FRONT COVER PC FOR SCREW C4500 無鉛	6-40-C4501-071	
23	TAPE MYLAR (B),MYLAR M550J 無鉛	6-40-M55J2-020	
24	GASKET (10*6*6) FOR TV CONN. TOP CASE M570TU 無鉛	6-47-00190-102	

Figure A - 5
LCD (E4125)

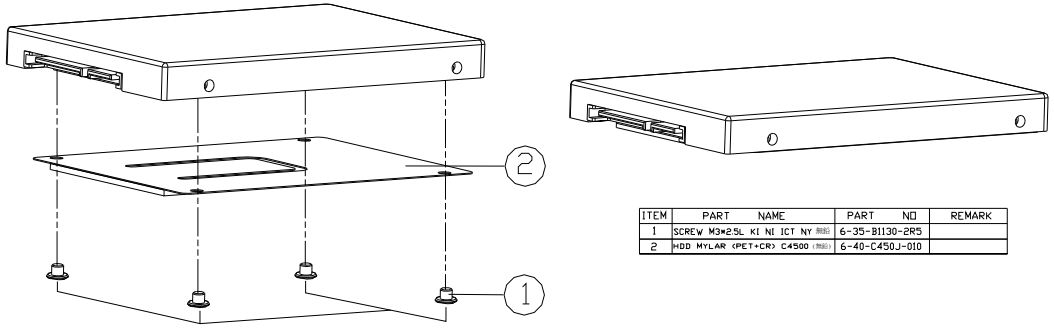
LCD (E4121D-C)

Figure A - 6
LCD (E4121D-C)



ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER PROTECTION MYLAR (PET+3M8915) C4500 無鉛	6-40-C4501-011	
2	LCD FRONT COVER SCREW RUBBER SLICON C4500 無鉛	6-47-C4501-031	
3	SCREW M2*5L KI(T=0.8 D=4.0) BK/Z ICT NY 無鉛	6-35-B6120-5R0	
4	LCD FRONT COVER MODULE C4500 無鉛	6-39-C4501-012	
5	CCD 銘板 PMMA M810L 無鉛	6-42-M8101-011	
5	W/O CCD LENS PMMA 0.5T C4800 無鉛	6-42-C480T-010	
6	*(非耐落)SCREW M2*3L K1 NI ICT GTY-PATCH 無鉛	6-35-B1120-3RE	
7	LCD HINGE-L SECC C4500 無鉛	6-33-C4501-011	
8	SCREW M2.5*5L KI BK/Z ICT NY-無鉛	6-35-B6125-5RA	
9	UVC CAMERA CHICONY FIX CNF9121 1.3M OV9665 無鉛	6-88-M74TC-5100	OPTION
9	UVC CAMERA BISON FIX BN28M6SA8-000 1.3M M810L 無鉛	6-88-M810C-4910	OPTION
9	UVC CAMERA SUPERTECH FIX 900-CV5-1VFF-01 1.3M OV9665 W830T 無鉛	6-88-W83TC-8900	OPTION
10	ANTENNA COMBO WIMAX 2.4G/3.7G/5G PCB COMBO H=1MM WM1=420MM WM2=420MM 精乘 C4800 無鉛	6-23-7C480-020	FOR C4801M
10	ANTENNA COMBO WIMAX 2.4G/3.7G/5G PCB COMBO H=1MM WM1=585MM WM2=585MM 精乘 C4500 無鉛	6-23-7C450-032	FOR C45XX
11	WIRE CABLE FOR CCD 5P 310.5MM C4500 (華力)無鉛	6-43-C450T-011	
12	ANTENNA WCDMA PCB 3G H=1MM 840MM 精乘 (銅箔接地)無鉛	6-23-7C480-010	FOR C4801M
12	ANTENNA WCDMA PCB 3G 860MM 精乘 E4120 無鉛	6-23-7E412-010	FOR E412X
13	WIRE CABLE FOR LVDS 300MM C4800(今皓 / 泰林 CONN) 無鉛	6-43-C4801-090	EXCEPT FOR 6-50-J8152-G01 AU B140XW01 V.2 FOR C45XX/C48XX/E412X
13	WIRE CABLE FOR LVDS 215MM C4800 (華力 / 訊裕 CONN) 無鉛	6-43-C4801-041	ONLY FOR 6-50-J8152-G01 AU B140XW01 V.2 ONLY FOR C48XX
14	ANTENNA BLUETOOTH 2.4G PCB H=1MM 480MM 精乘 C4800 無鉛	6-23-7C480-030	FOR C48XX
14	ANTENNA BLUETOOTH 2.4G PCB H=1MM 645MM 精乘 C4500 無鉛	6-23-7C450-022	FOR C45XX/E412X
15	LCD 14.0" HD AU B140XW01 V.2 (GLARE TYPE) 無鉛	6-50-J8152-G01	
15	LCD 14.0" HD INNOLUX BT140GW01 V.0 GLARE TYPE 無鉛	6-50-J8152-V00	
15	LCD 14.0" HD AU B140XW01 V.0 GLARE TYPE (LED) 5.2MM 無鉛	6-50-J8152-G00	
15	LCD 14.0" HD CHIMEI N140B6-L02 GLARE TYPE 無鉛	6-50-J8152-D00	
15	LCD 14.0" HD BOE HT140WXB-100 GLARE TYPE 無鉛	6-50-J8152-H00	
15	LCD 14.0" HD LG LP140WH1-TLA1 GLARE TYPE 無鉛	6-50-J8152-L00	
16	LCD HINGE-R SECC C4500 無鉛	6-33-C4501-021	
17	HINGE COSMETIC RING ABS PA727 C4501 無鉛	6-42-C4518-010	
18	STYLE NOTE 中性 LOGO 電鑄薄膜鍍亮銘(字體連結) M741S	6-45-M741S-020	
19	MIDDLE COVER MODULE C4801M 無鉛	6-39-C4801-031-M	FOR C4801M
19	MIDDLE COVER MODULE C4801M-C 無鉛	6-39-C4801-031-MC	FOR C4801M-C FOR E4121D-C
20	LCD BACK COVER PC+ABS 7230P FOR MOFA C4801M 無鉛	A6-39-C4801-02B-M	FOR MOFA
20	LCD BACK COVER MODULE PC+ABS C7230P FOR C4801M 無鉛	6-39-C4801-021-M	FOR C4801M-C FOR E4121D-C
20	IMR BACK COVER PC+ABS C7230P E412P-C 無鉛	6-39-E4121-02A-C	FOR E4121D-C
21	BACK COVER PROTECTION MYLAR(8B35+3M8915) C4500 無鉛	6-40-C4501-020	FOR E4121M/D-C
21	BACK COVER PROTECTION MYLAR(PET+3M8915) C4501 無鉛	6-40-C4511-010	FOR C4801M/-C
22	FRONT COVER PC FOR SCREW C4500 無鉛	6-40-C4501-071	
23	TAPE MYLAR (B),MYLAR M550J 無鉛	6-40-M55J2-020	
24	GASKET (10*6*6) FOR TV CONN. TOP CASE M570TU 無鉛	6-47-00190-102	

HDD

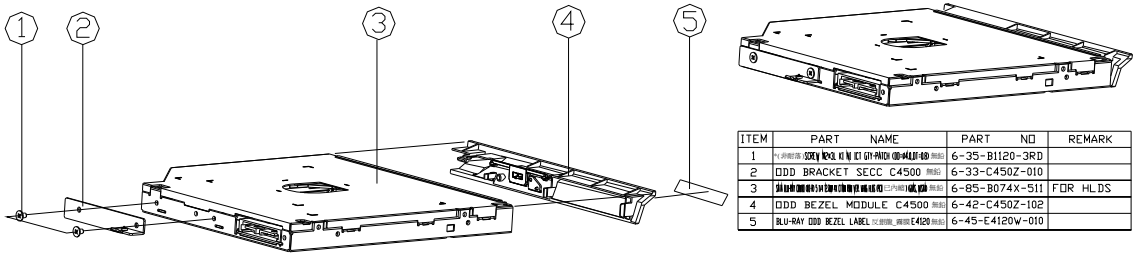


ITEM	PART NAME	PART NO	REMARK
1	SCREW M3*2.5L KI NI ICT NY	6-35-B1130-2R5	
2	HDD MYLAR (PET+CR) C4500	6-40-C450J-010	

Figure A - 7
HDD

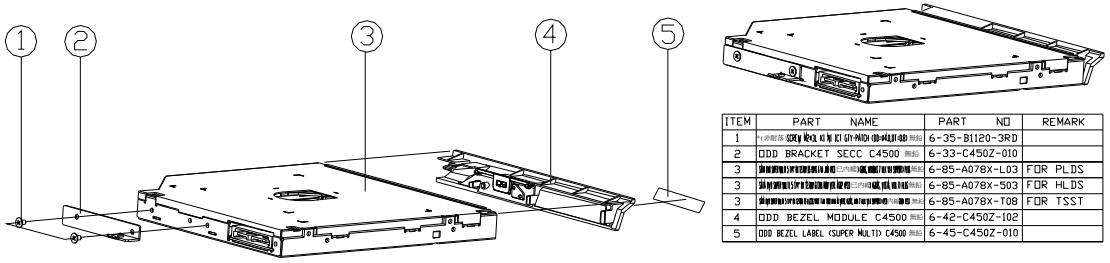
Blu-Ray Combo

Figure A - 8
Blu-Ray Combo



ITEM	PART NAME	PART NO	REMARK
1	[illegible]	6-35-B1120-3RD	
2	ODD BRACKET SECC C4500	6-33-C450Z-010	
3	[illegible]	6-85-B074X-511	FOR HLDS
4	ODD BEZEL MODULE C4500	6-42-C450Z-102	
5	BLU-RAY ODD BEZEL LABEL	6-45-E4120W-010	

DVD-Super Multi Drive



ITEM	PART NAME	PART NO	REMARK
1	[illegible]	6-35-B1120-3RD	
2	ODD BRACKET SECC C4500	6-33-C450Z-010	
3	[illegible]	6-85-A078X-L03	FOR PLDS
3	[illegible]	6-85-A078X-503	FOR HLDS
3	[illegible]	6-85-A078X-T08	FOR TSST
4	ODD BEZEL MODULE C4500	6-42-C450Z-102	
5	ODD BEZEL LABEL (SUPER MULTI) C4500	6-45-C450Z-010	

Figure A - 9
DVD-Super Multi Drive

Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the ***E412P-C*** notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

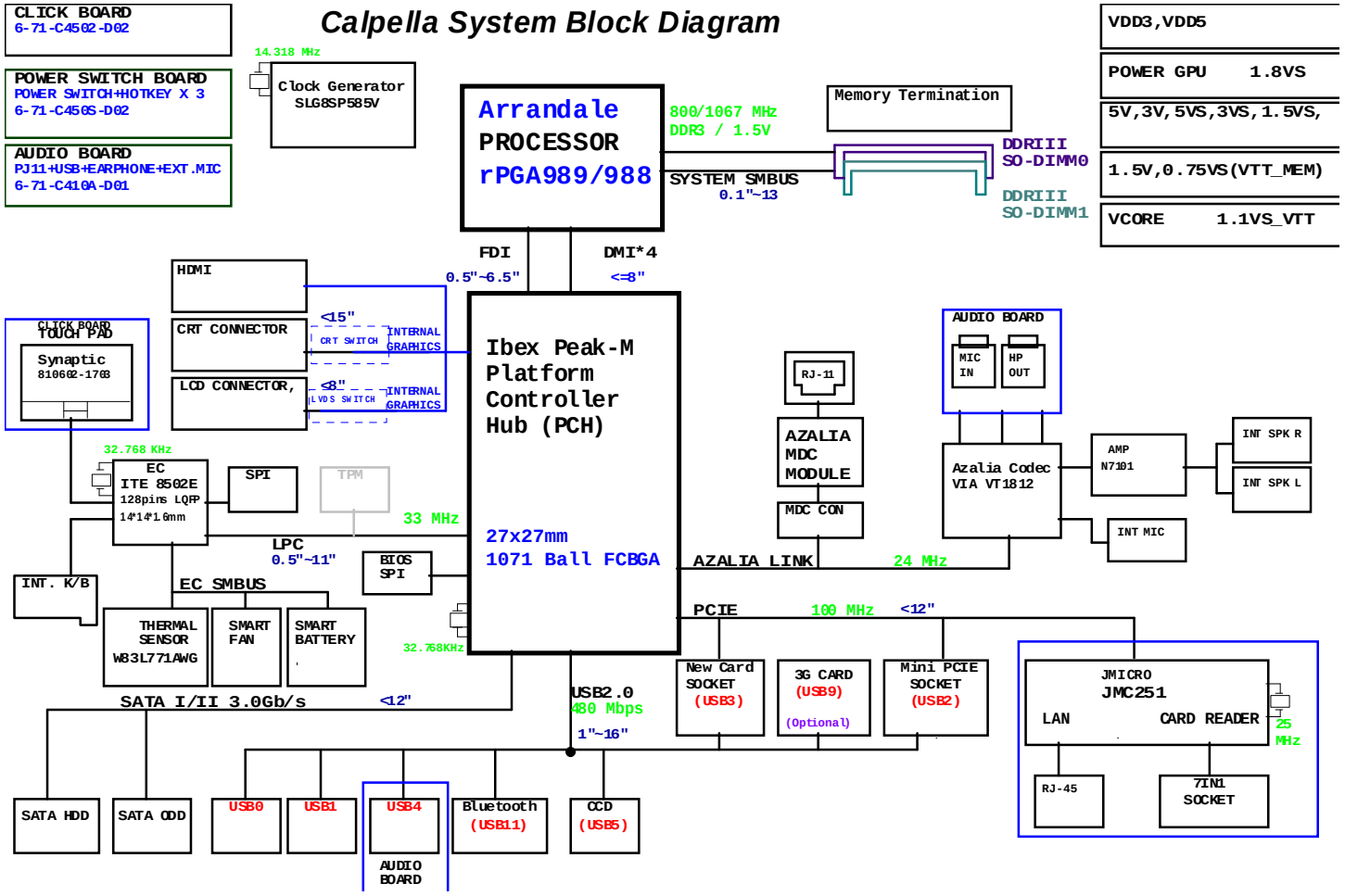
Table B - 1
Schematic Diagrams

Version Note

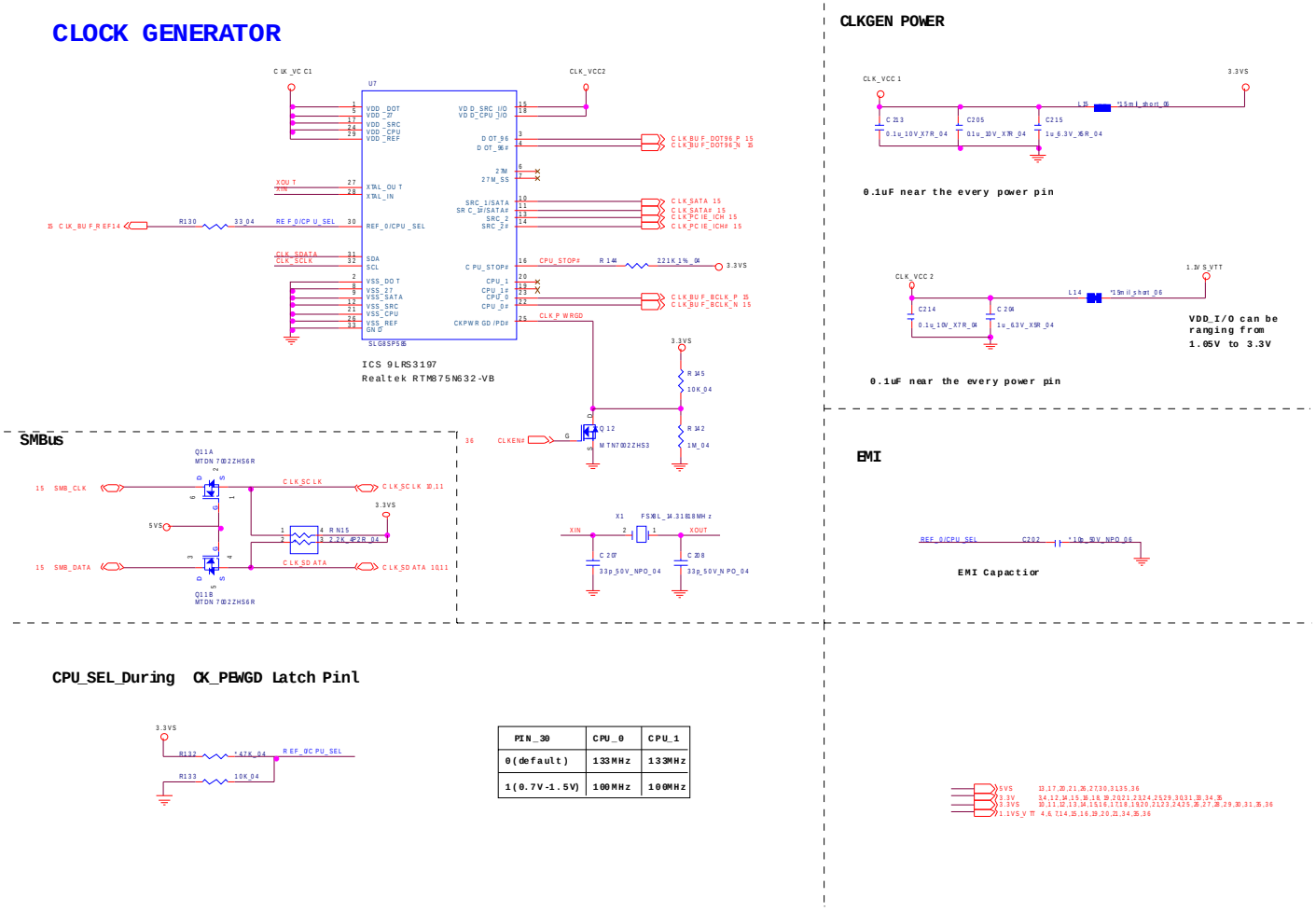
The schematic diagrams in this chapter are based upon version 6-7P-E4124-002. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

System Block Diagram

Sheet 1 of 40
System Block Diagram



Clock Generator

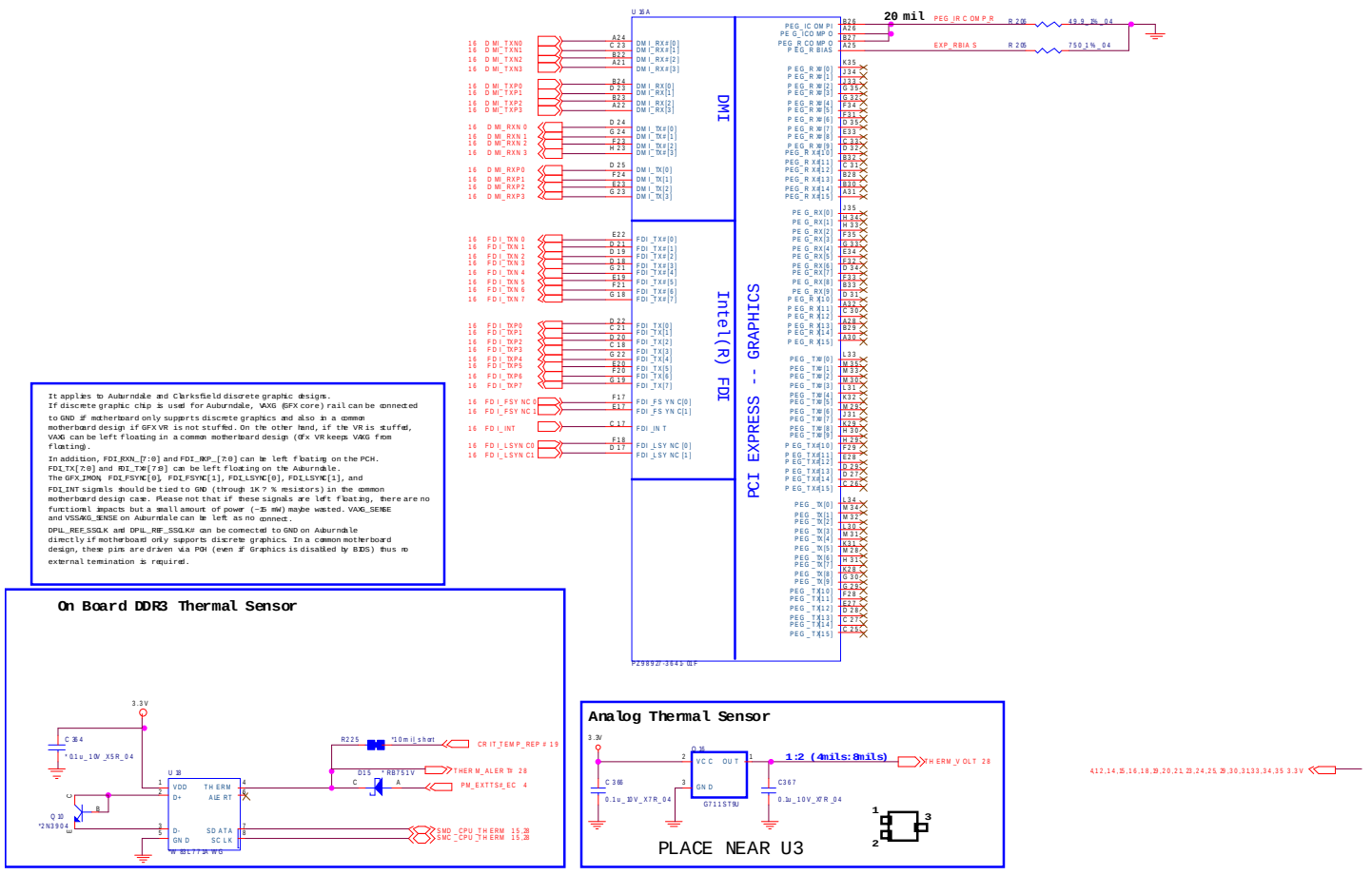


PIN_30	CPU_0	CPU_1
0(default)	133MHz	133MHz
1(0.7V-1.5V)	100MHz	100MHz

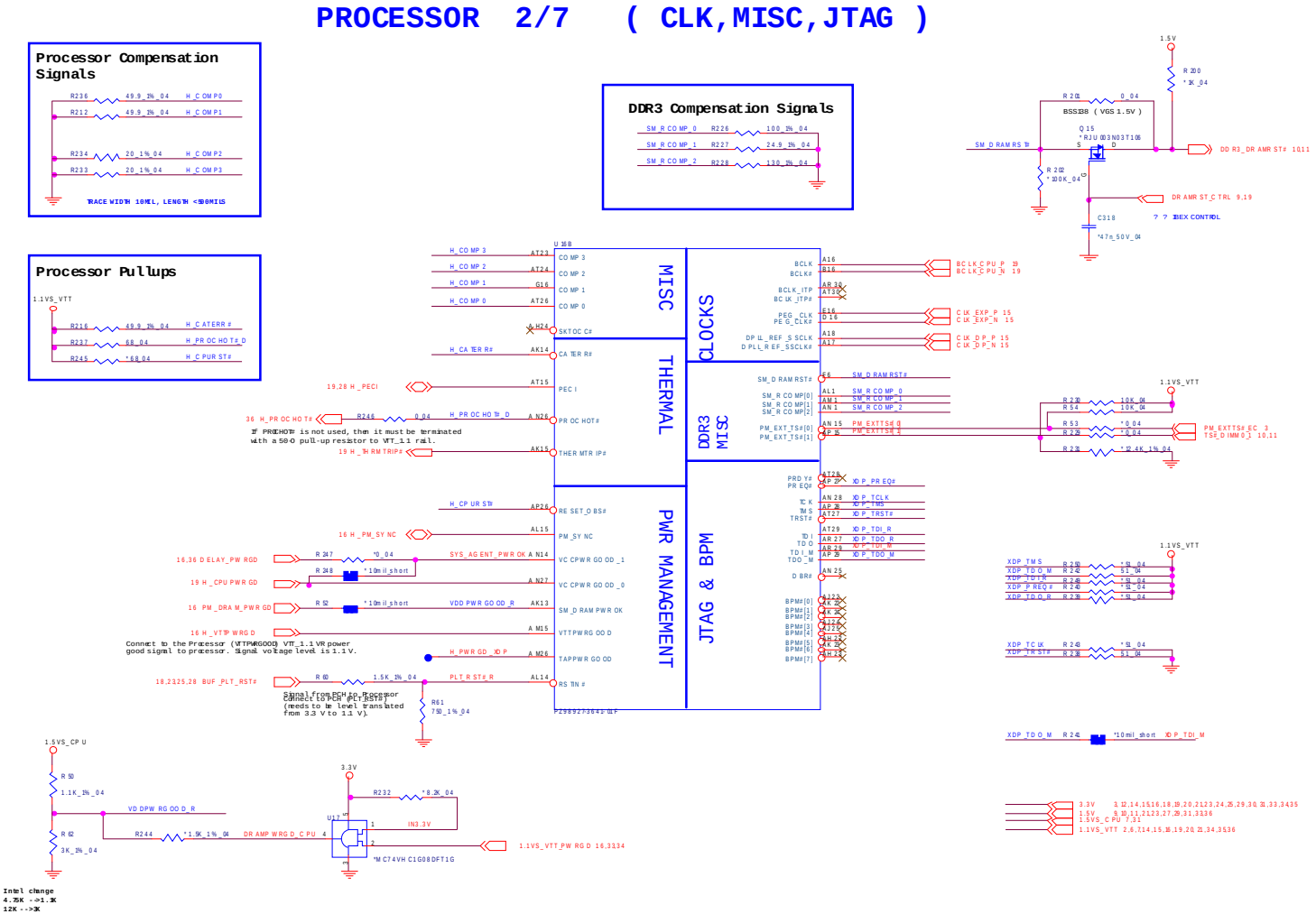
Sheet 2 of 40
Clock Generator

Processor 1/7

Sheet 3 of 40
Processor 1/7



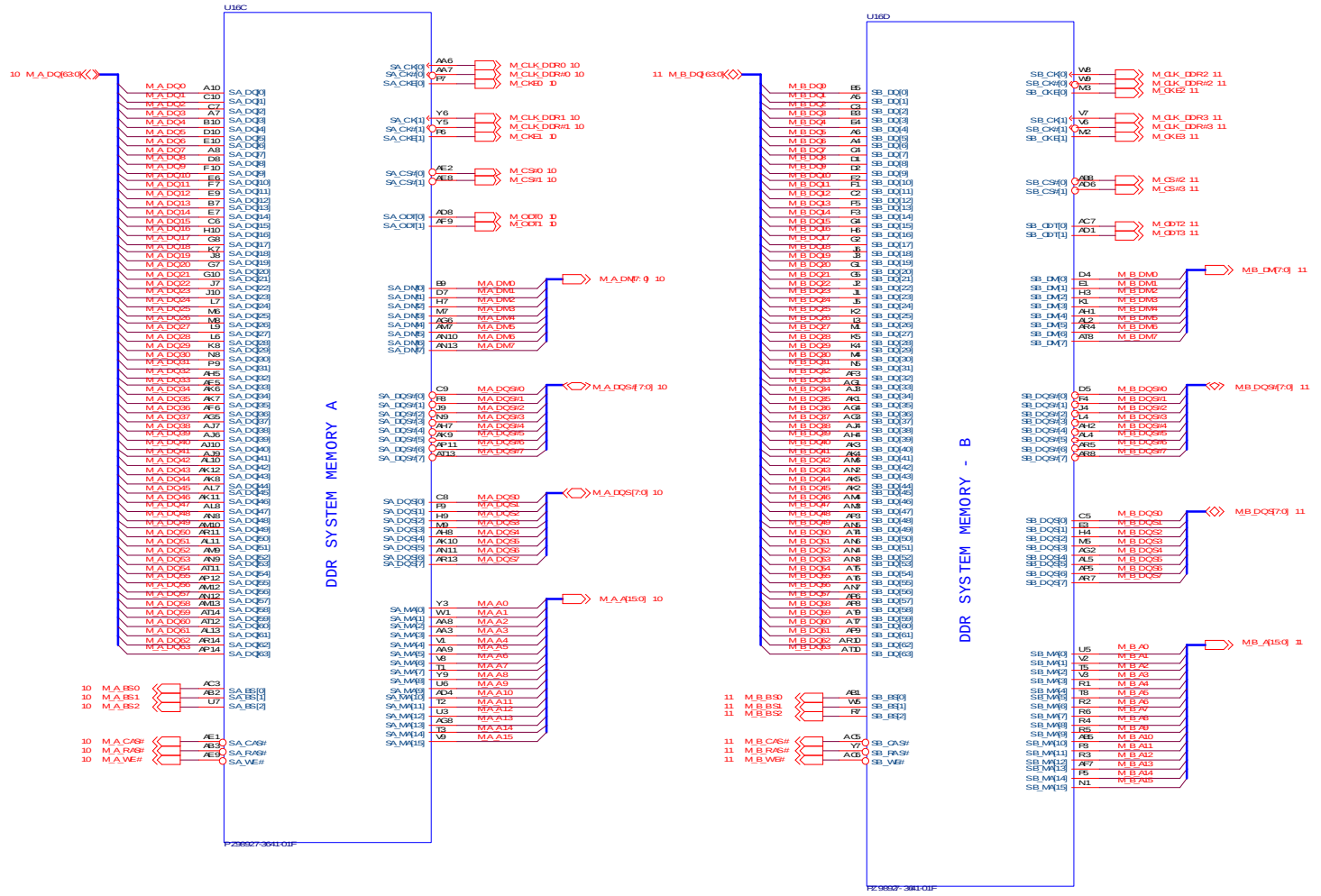
Processor 2/7



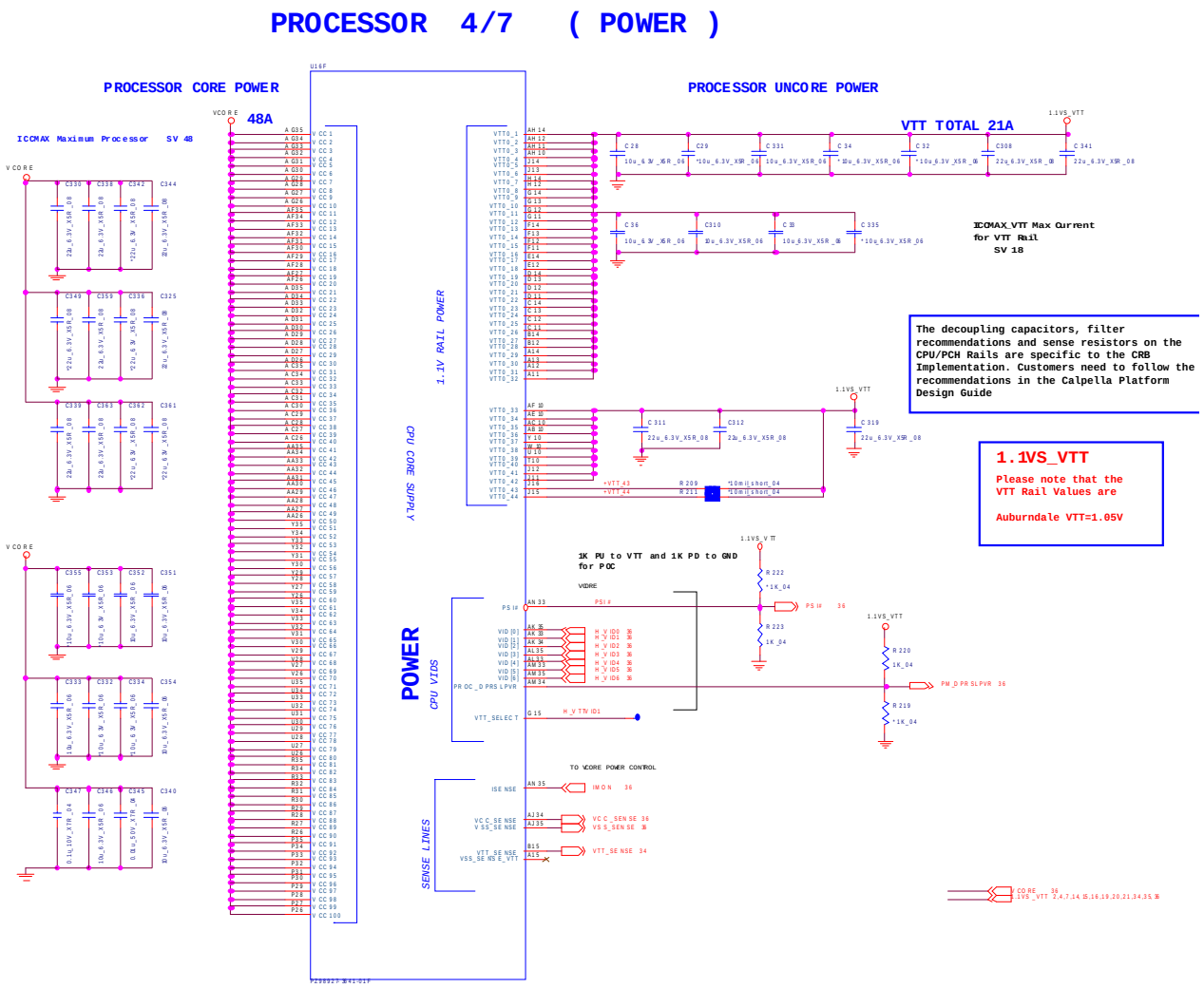
Sheet 4 of 40
Processor 2/7

Processor 3/7

Sheet 5 of 40
Processor 3/7



Processor 4/7

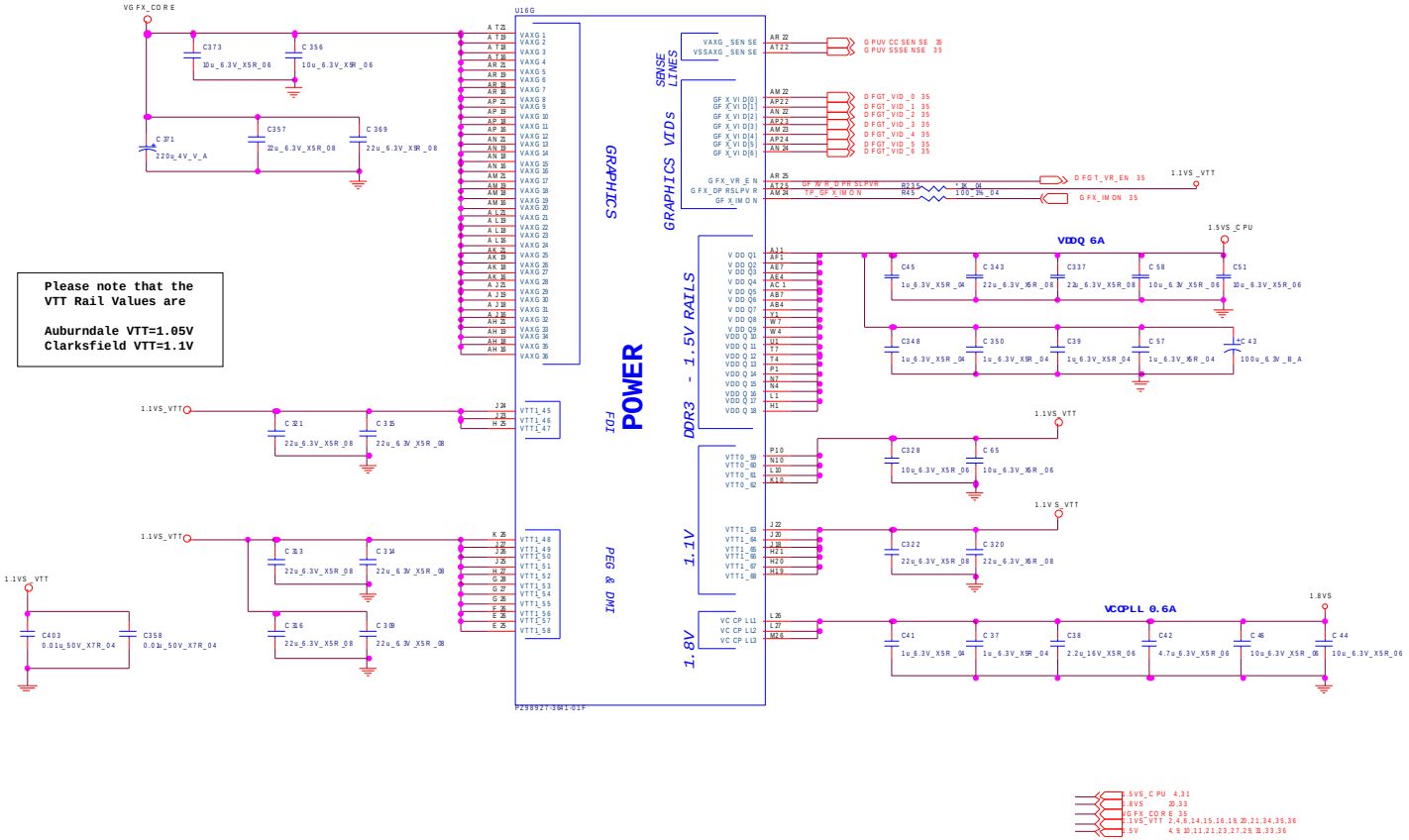


Sheet 6 of 40
Processor 4/7

Processor 5/7

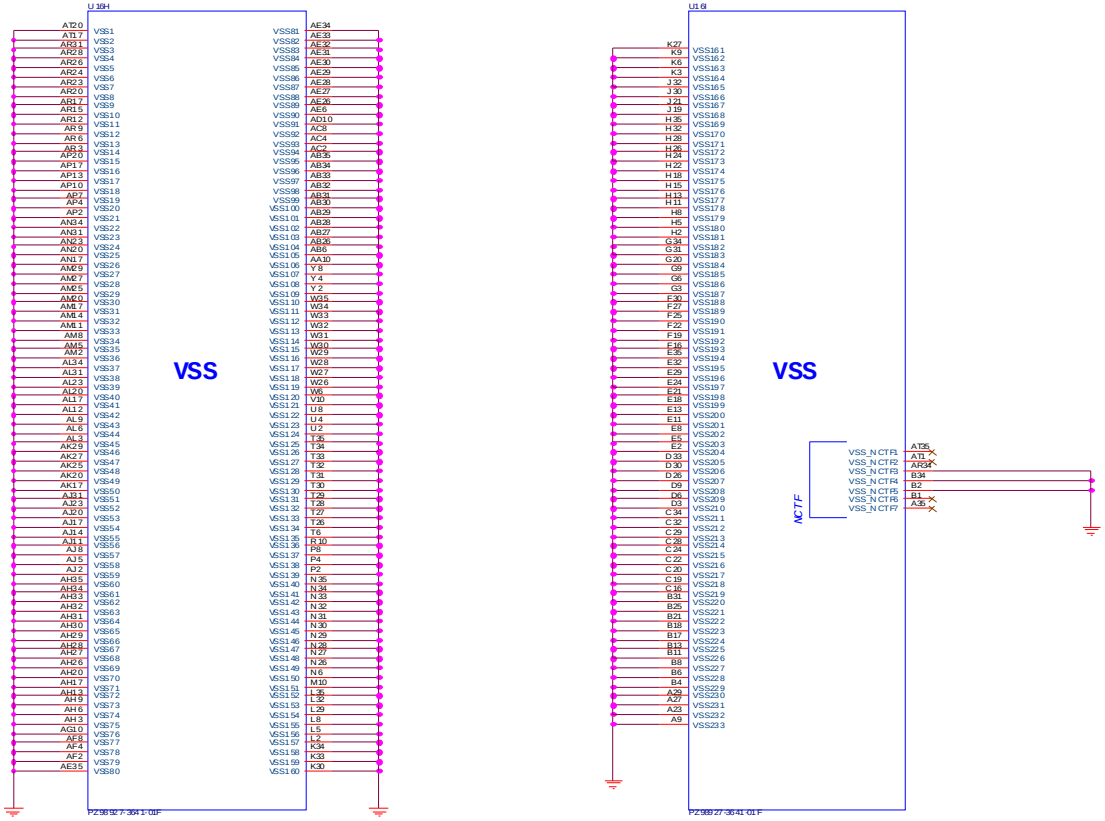
Sheet 7 of 40
Processor 5/7

PROCESSOR 5/7 (GRAPHICS POWER)



Processor 6/7

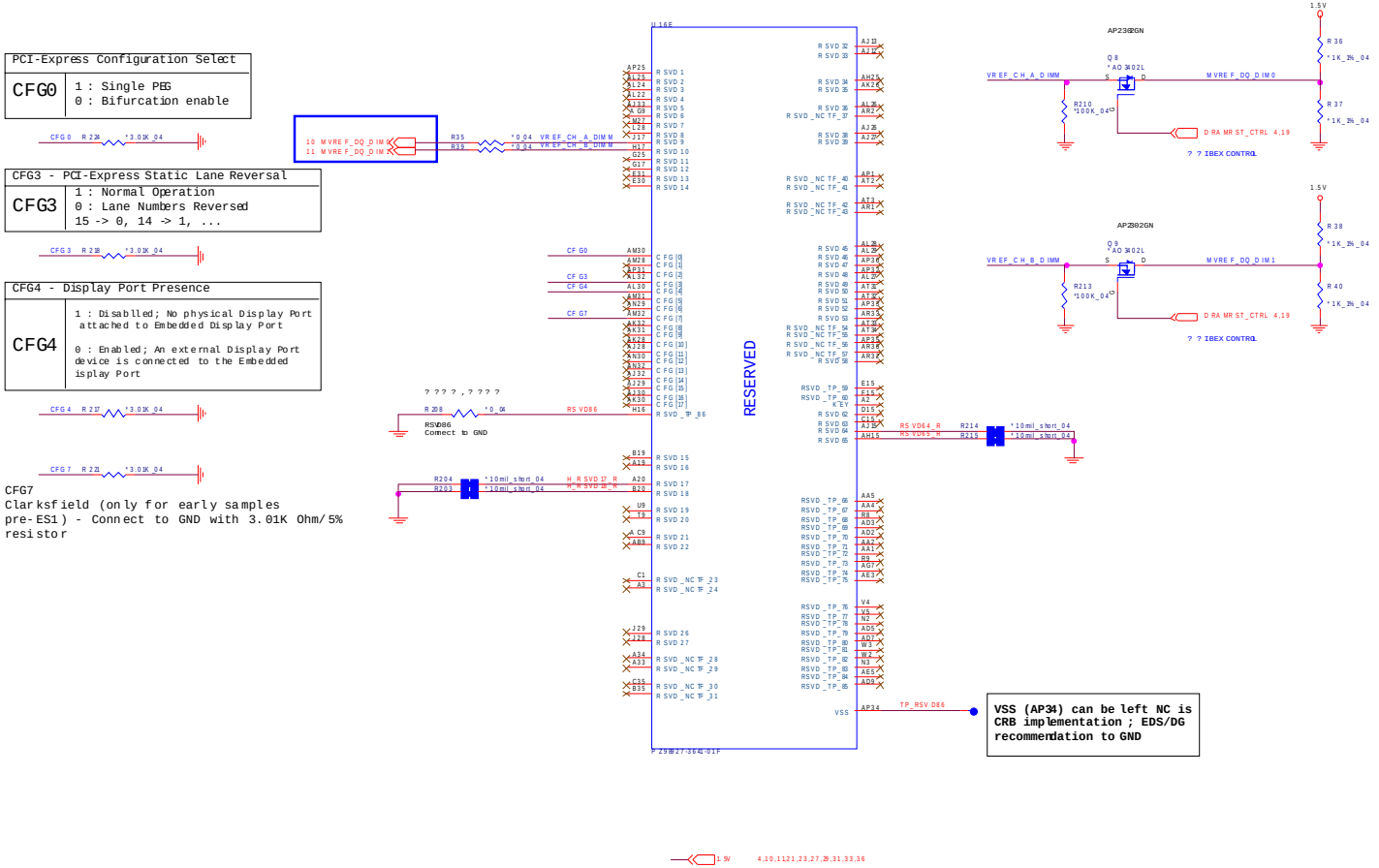
PROCESSOR 6/7 (GND)



Sheet 8 of 40
Processor 6/7

Processor 7/7

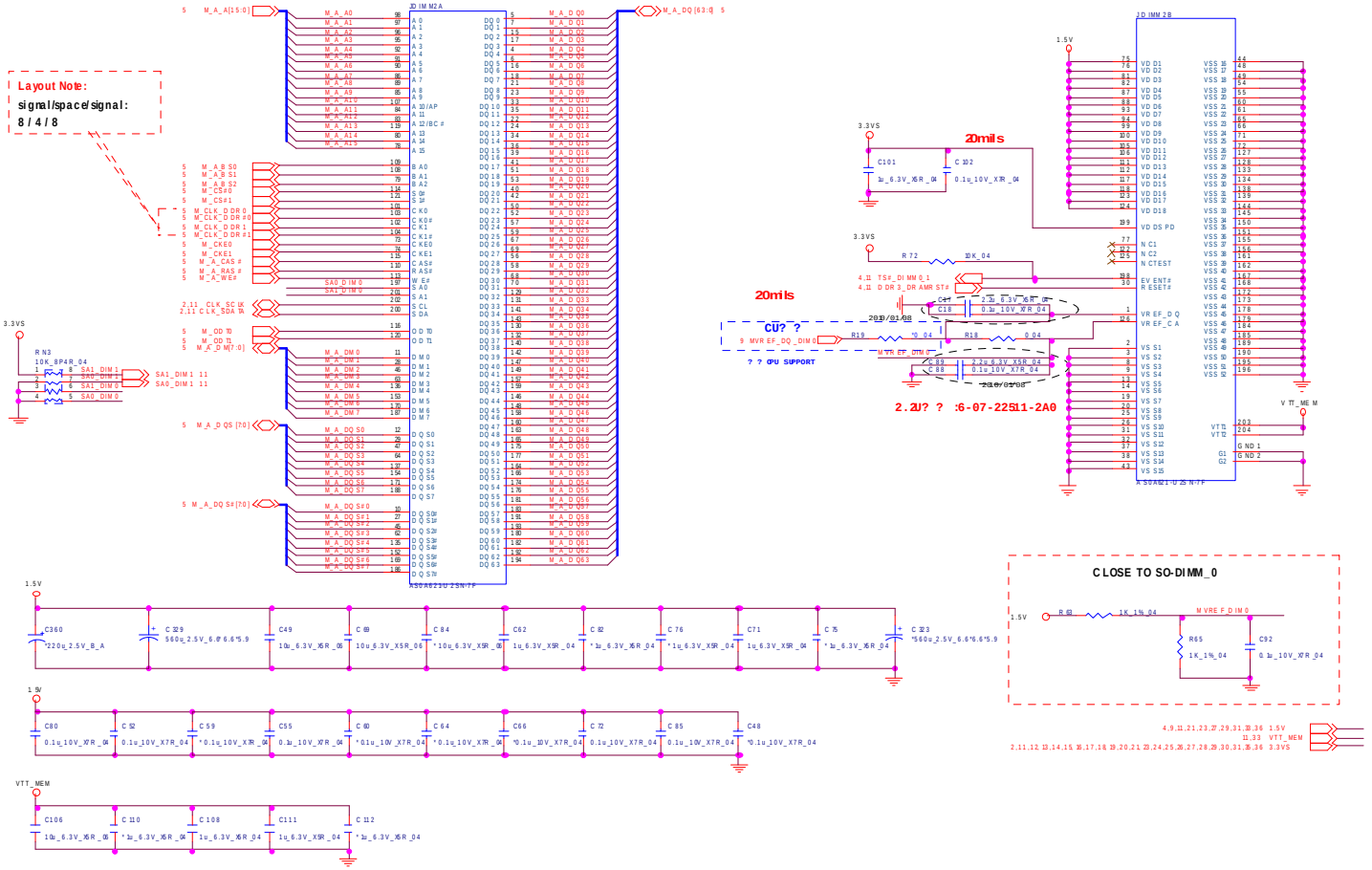
Sheet 9 of 40
Processor 7/7



DDRIII SO-DIMM_0

SO-DIMM A

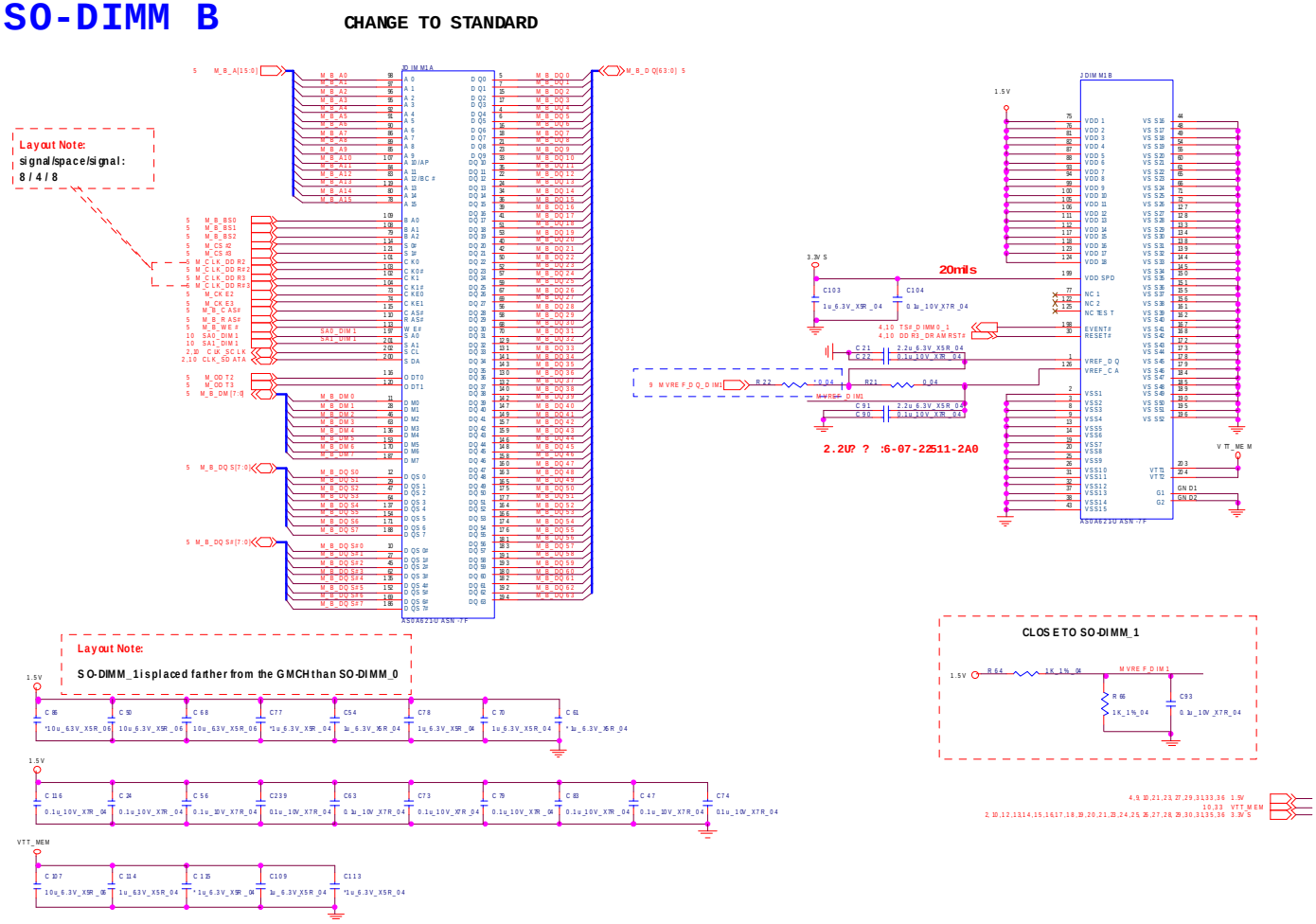
CHANGE TO STANDARD



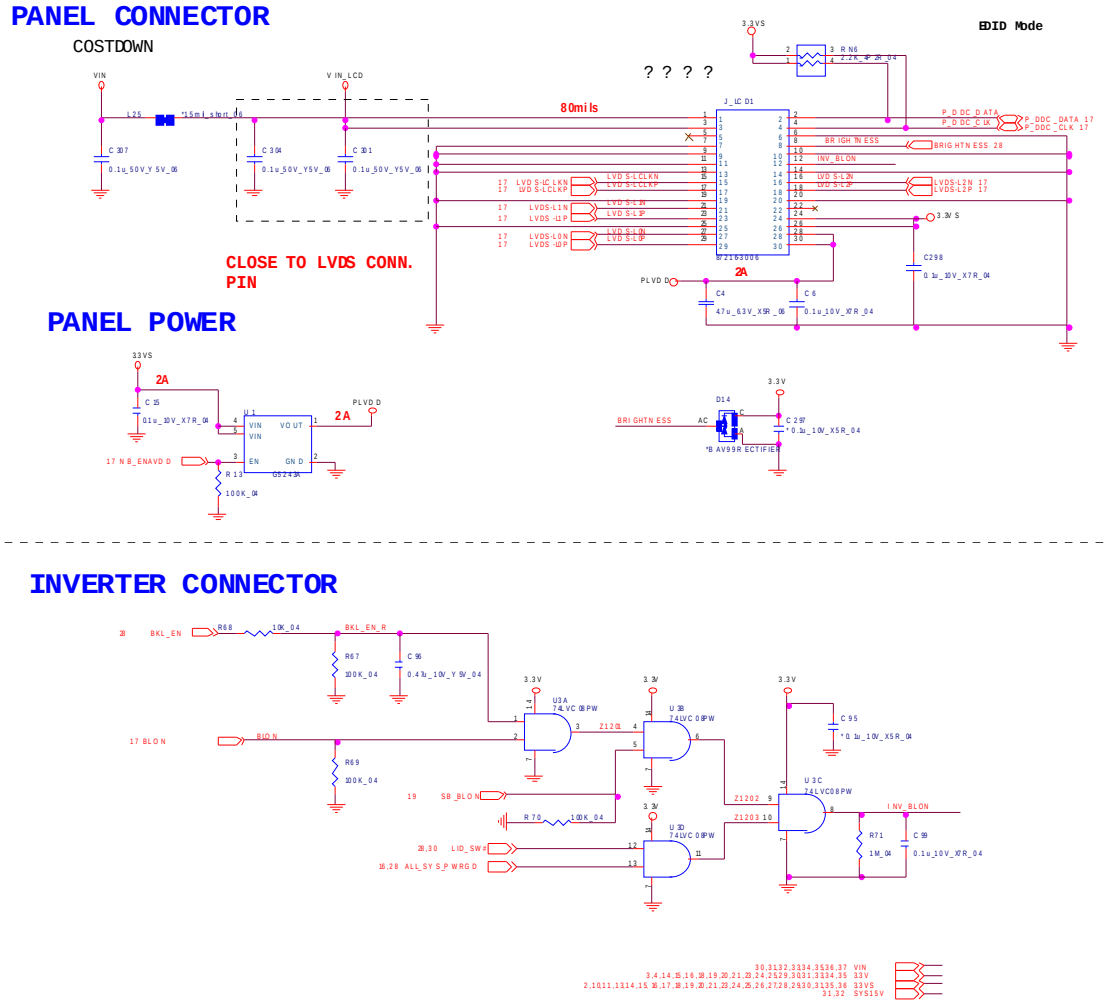
Sheet 10 of 40
DDRIII SO-DIMM _0

DDRIII SO-DIMM_1

Sheet 11 of 40
DDRIII SO-DIMM _1



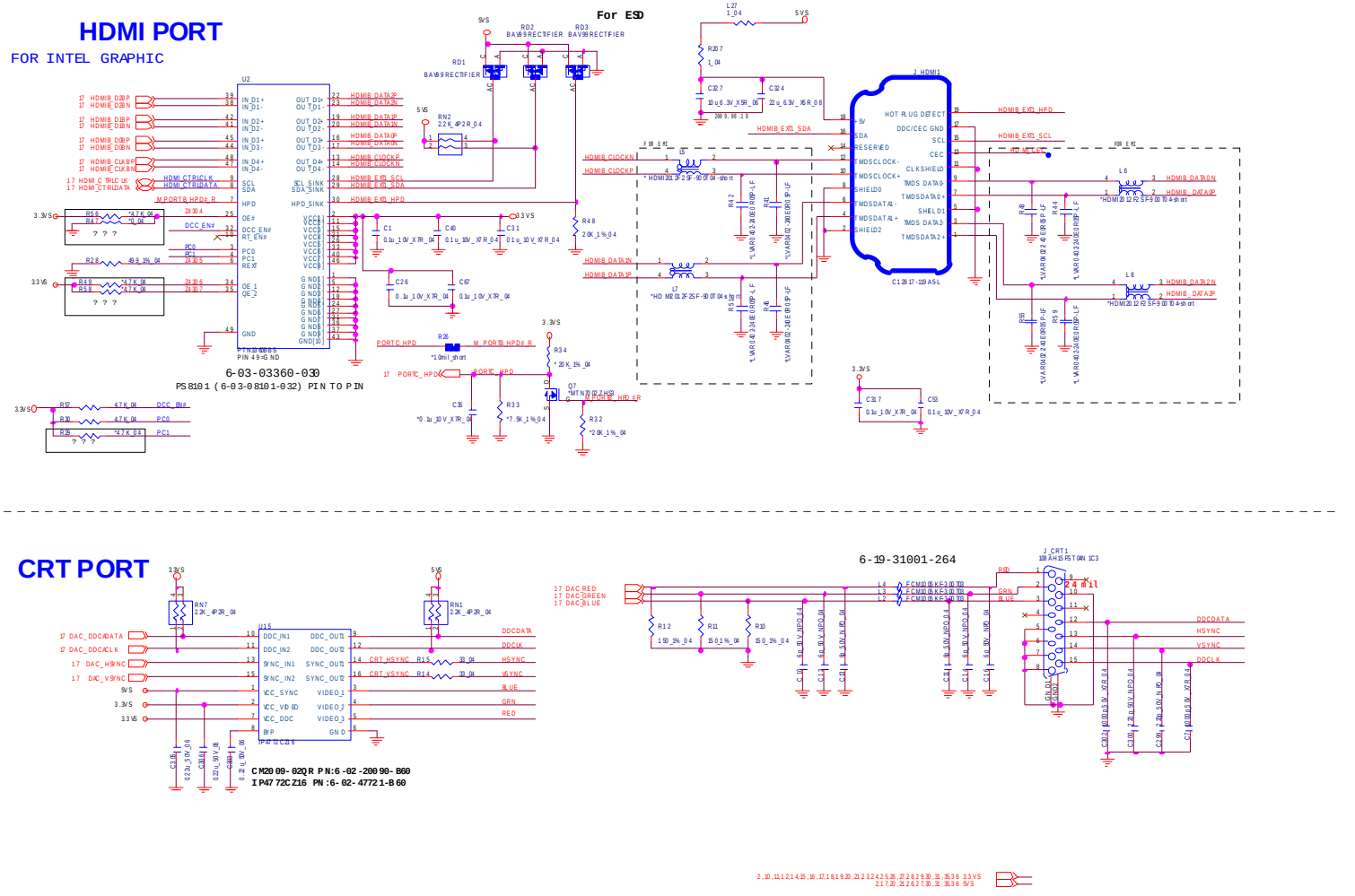
LVDS, Inverter



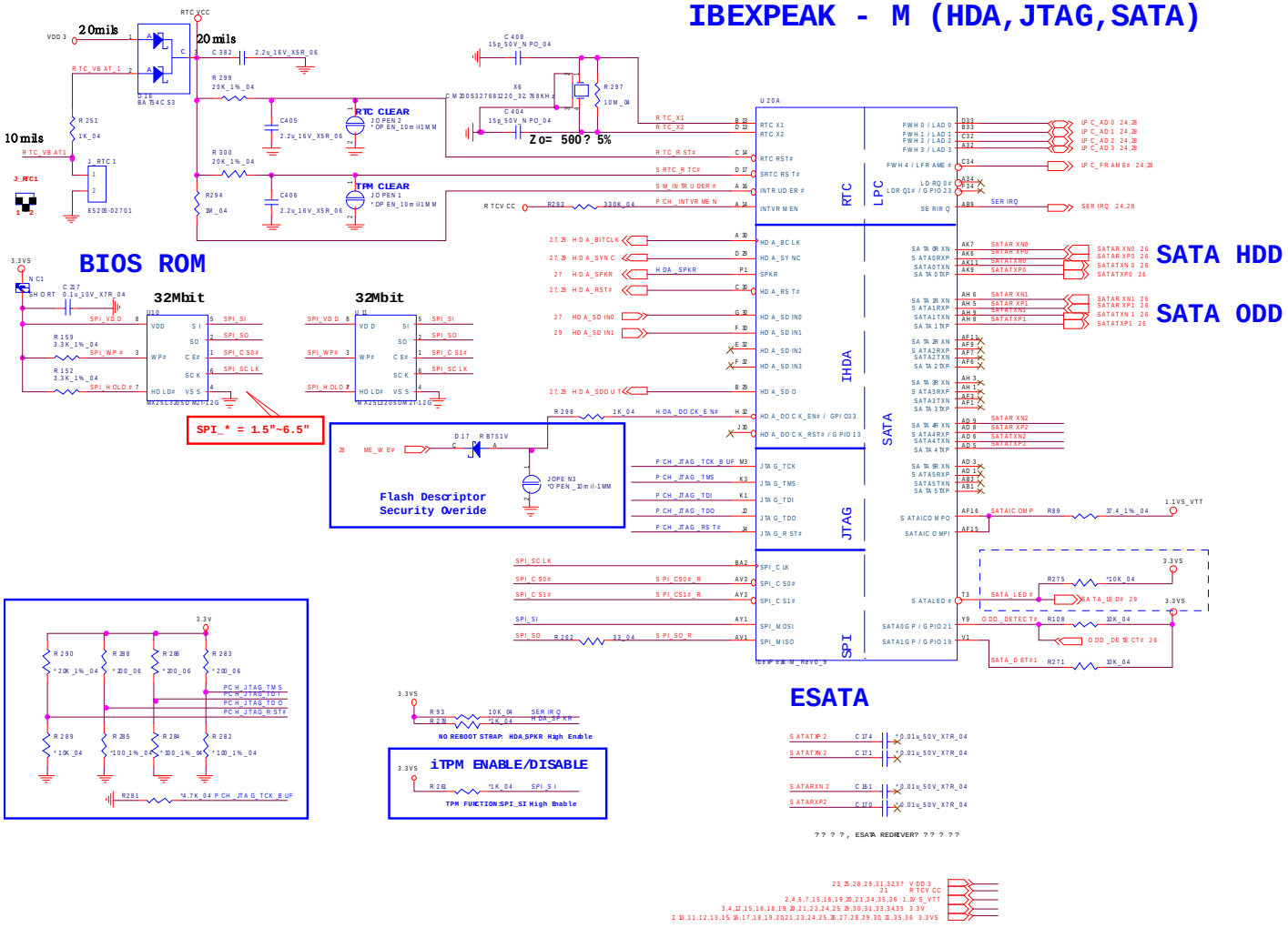
Sheet 12 of 40
LVDS, Inverter

HDMI, CRT

Sheet 13 of 40
HDMI, CRT



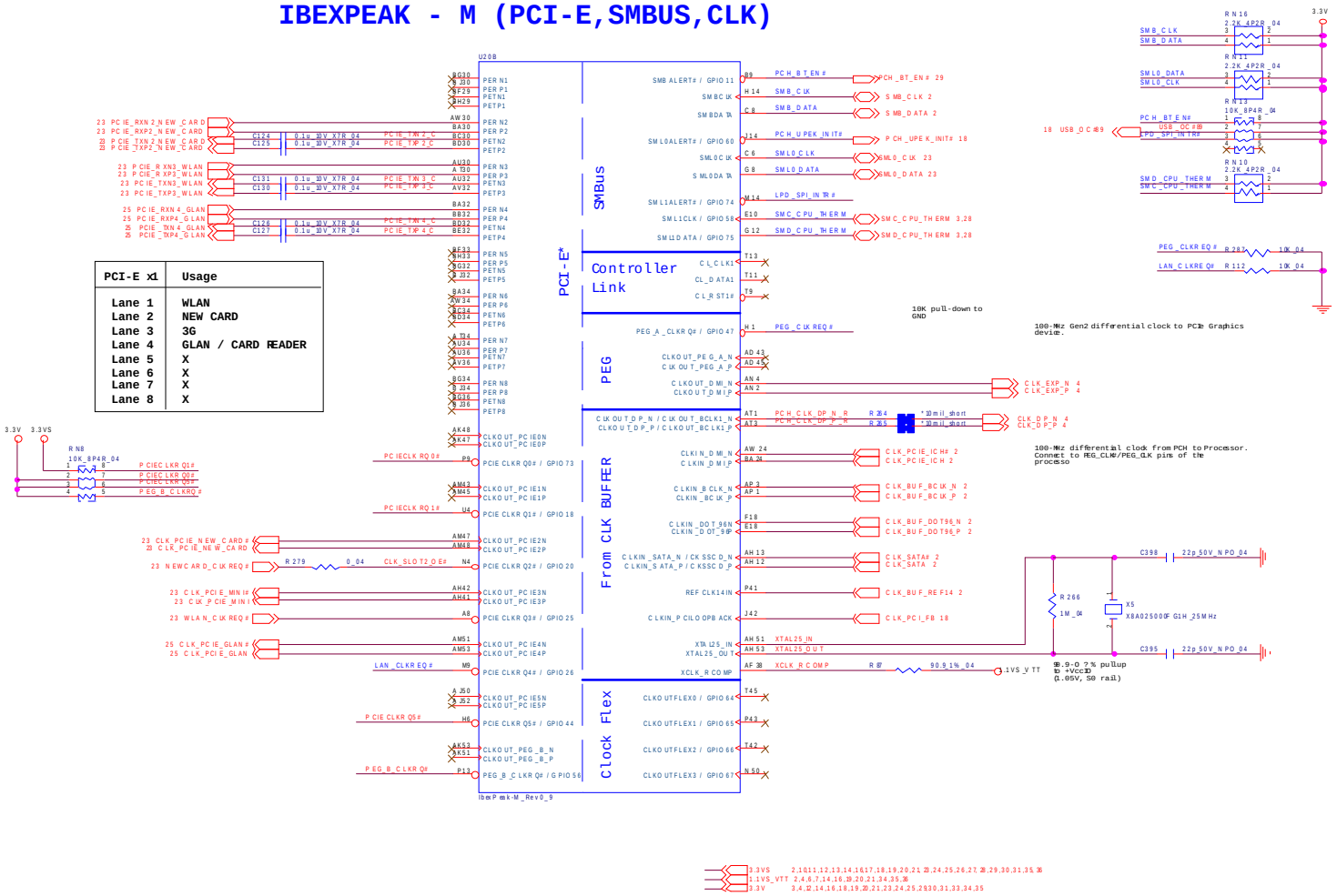
IBEXPEAK - M 1/9



Sheet 14 of 40
IBEXPEAK - M 1/9

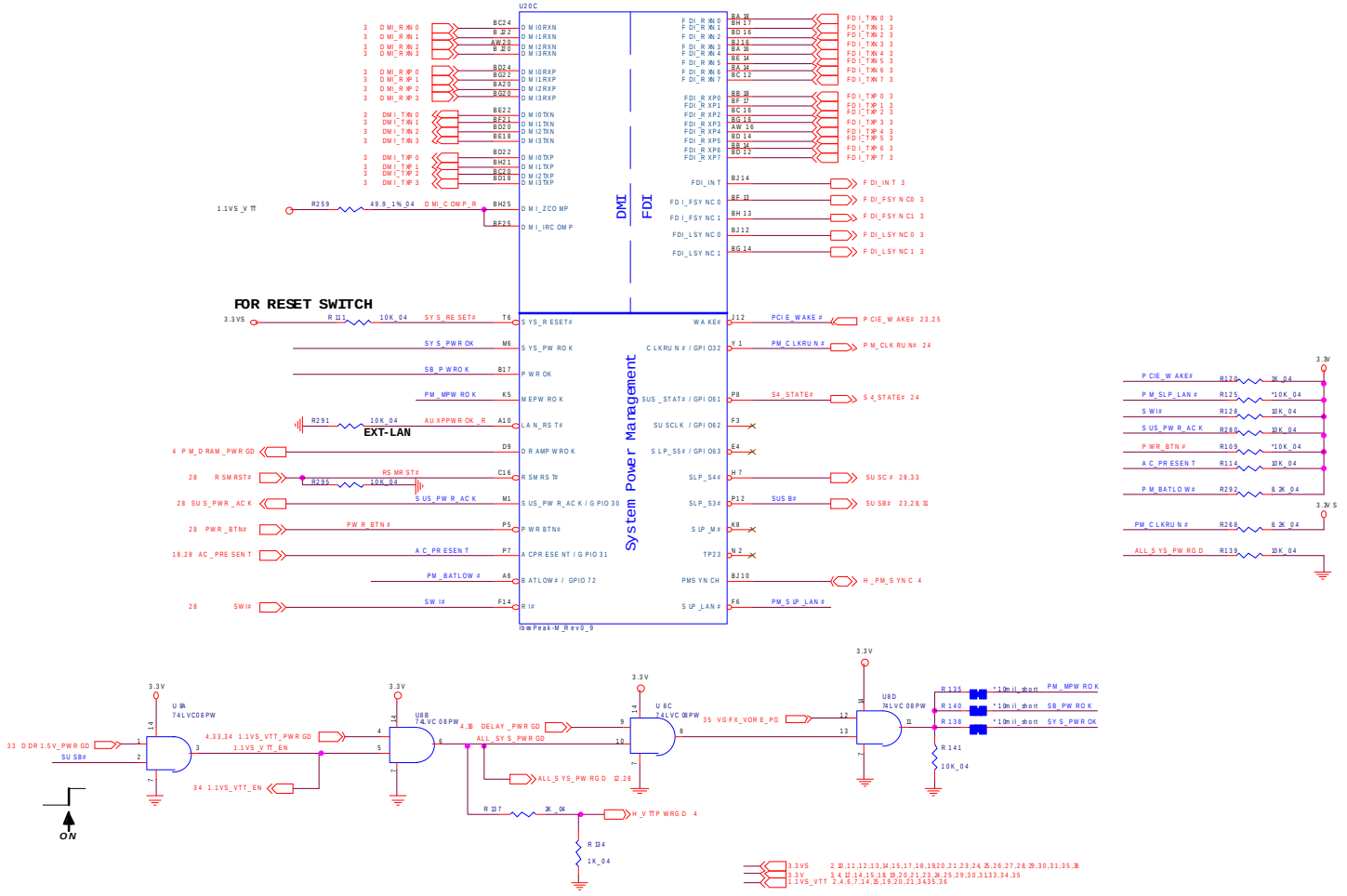
IBEXPEAK - M 2/9

Sheet 15 of 40
IBEXPEAK - M 2/9



IBEXPEAK - M 3/9

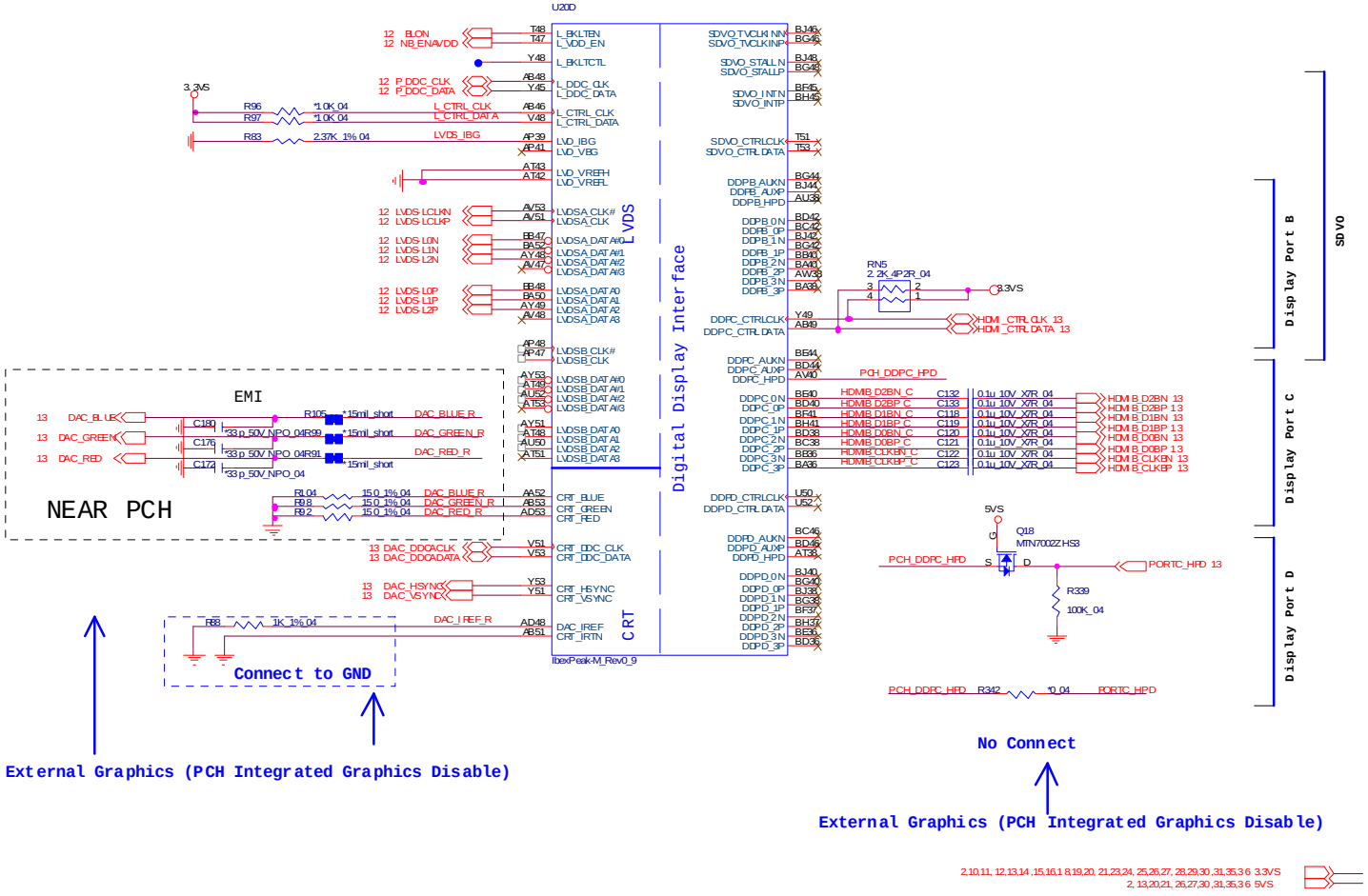
IBEXPEAK - M (DMI,FDI,GPIO)



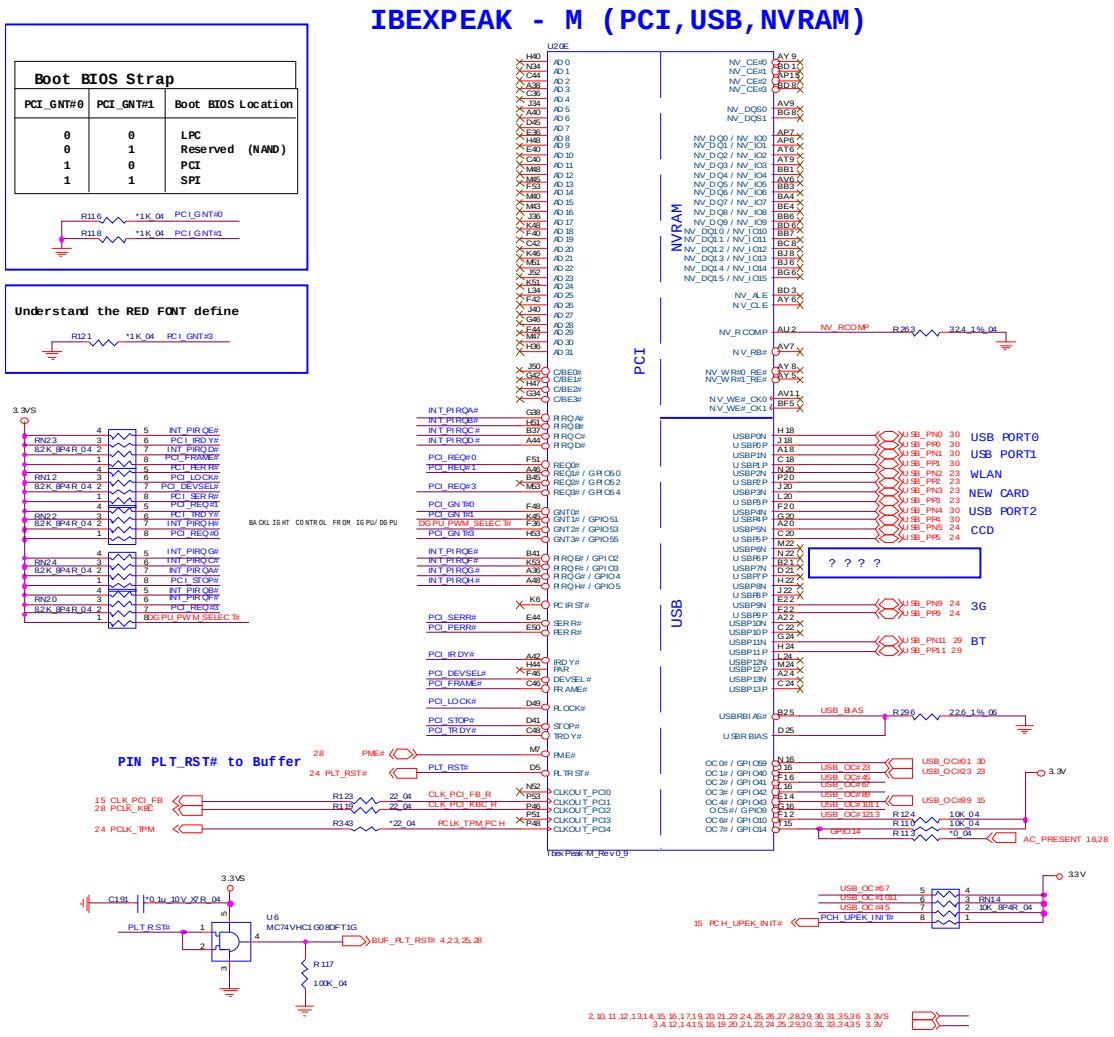
IBEXPEAK - M 4/9

Sheet 17 of 40
IBEXPEAK - M 4/9

IBEXPEAK - M (LVDS,DDI)



IBEXPEAK - M 5/9

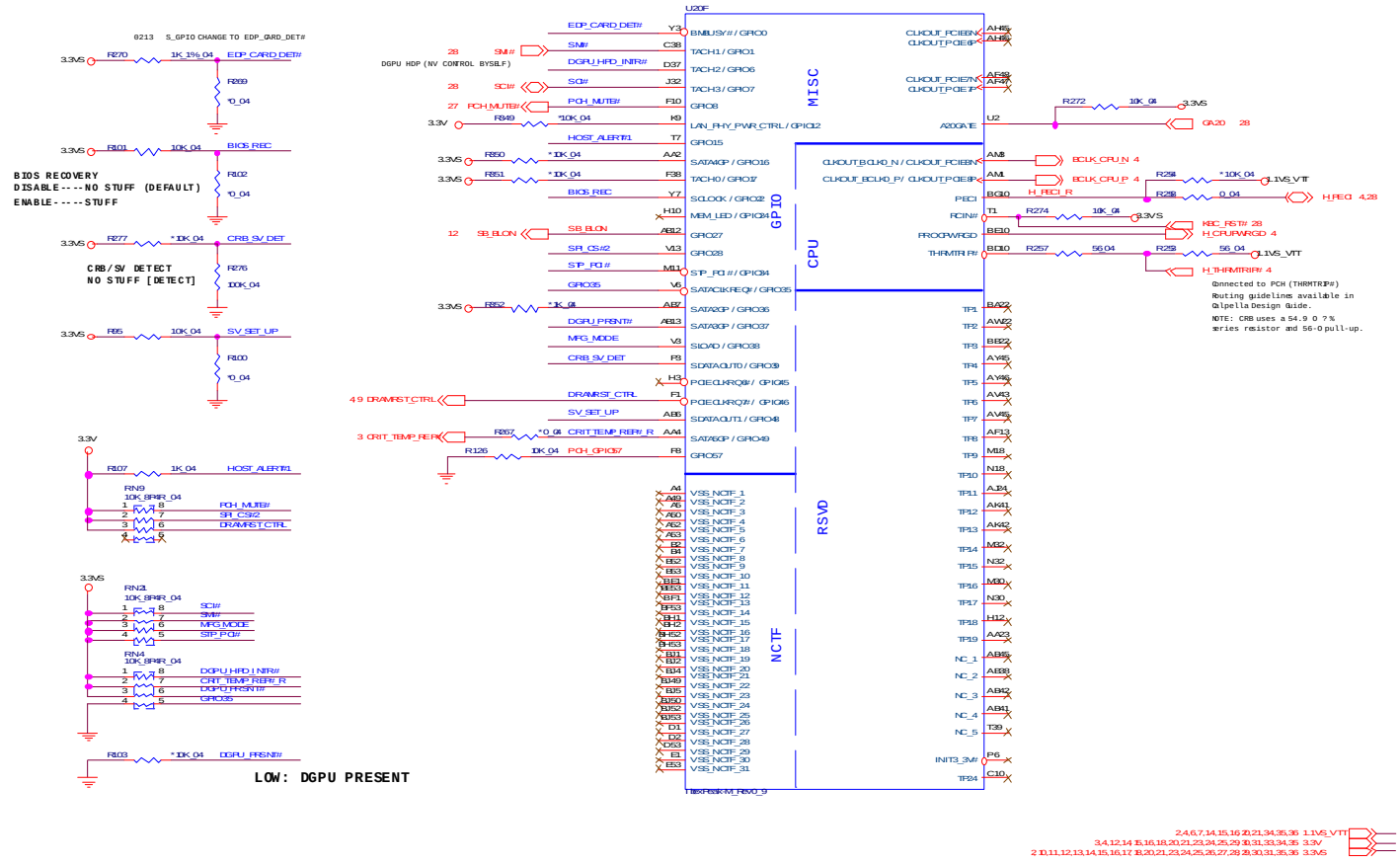


Sheet 18 of 40
IBEXPEAK - M 5/9

B.Schematic Diagrams

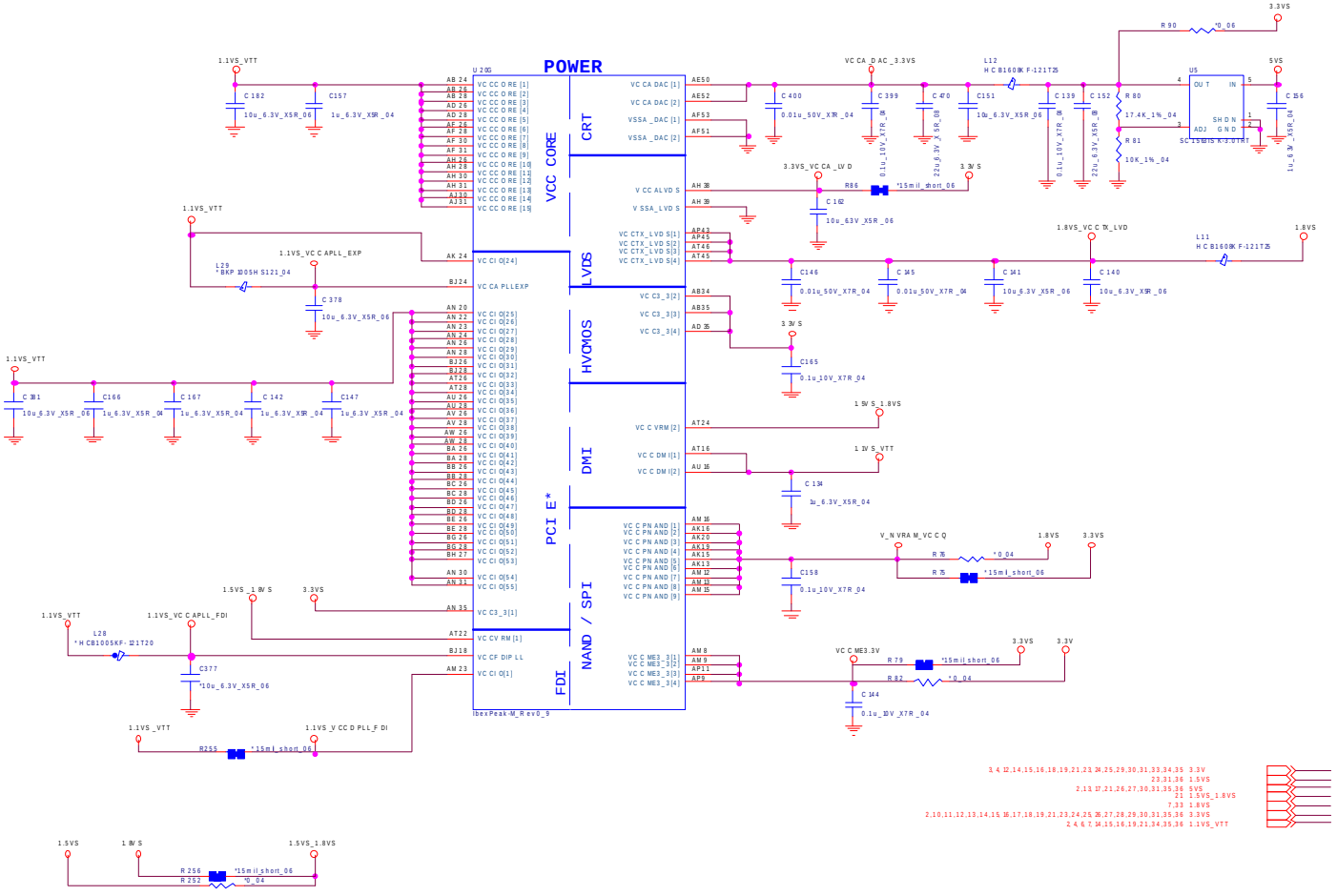
IBEXPEAK - M 6/9

Sheet 19 of 40
IBEXPEAK - M 6/9



IBEXPEAK - M 7/9

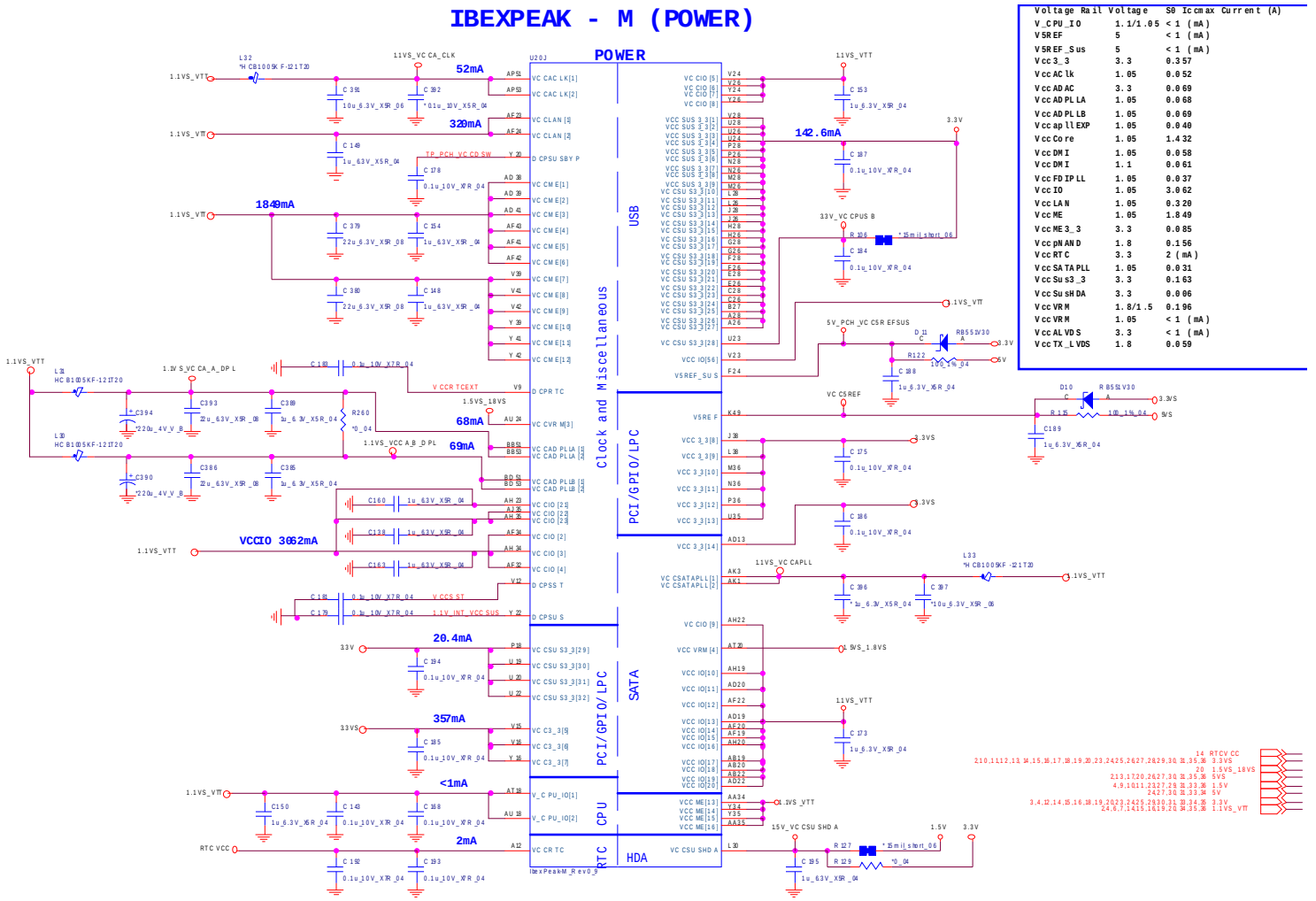
IBEXPEAK - M (POWER)



Sheet 20 of 40
IBEXPEAK - M 7/9

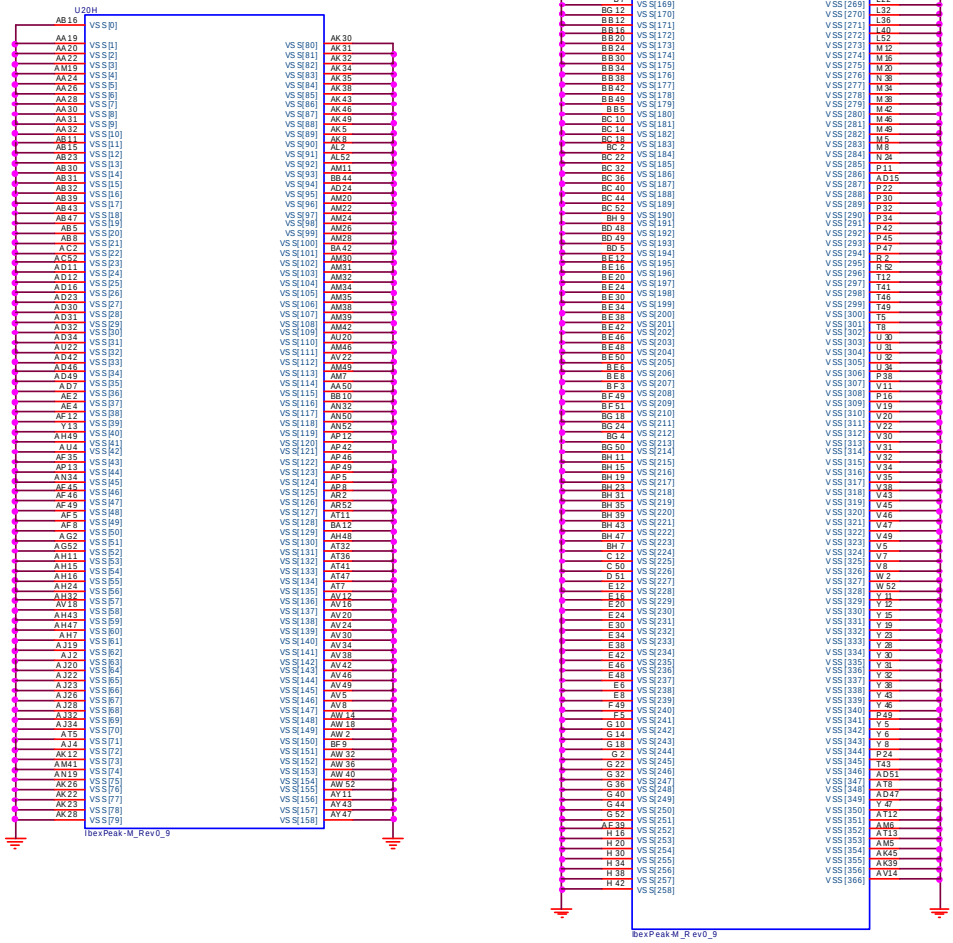
IBEXPEAK - M 8/9

Sheet 21 of 40
IBEXPEAK - M 8/9



IBEXPEAK - M 9/9

IBEXPEAK - M (GND)

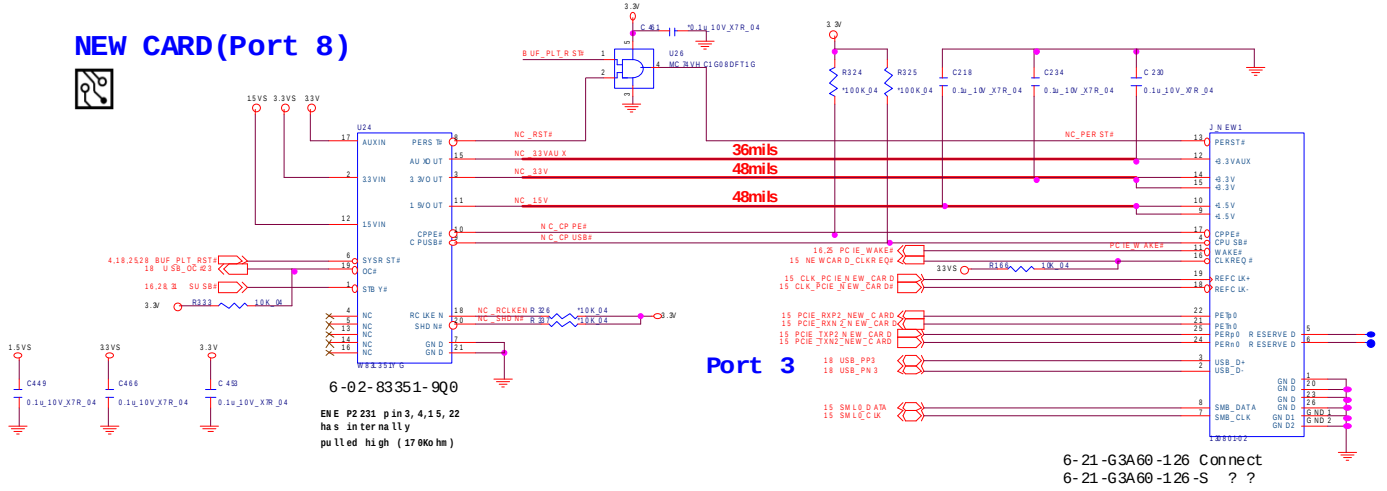


Sheet 22 of 40
IBEXPEAK - M 9/9

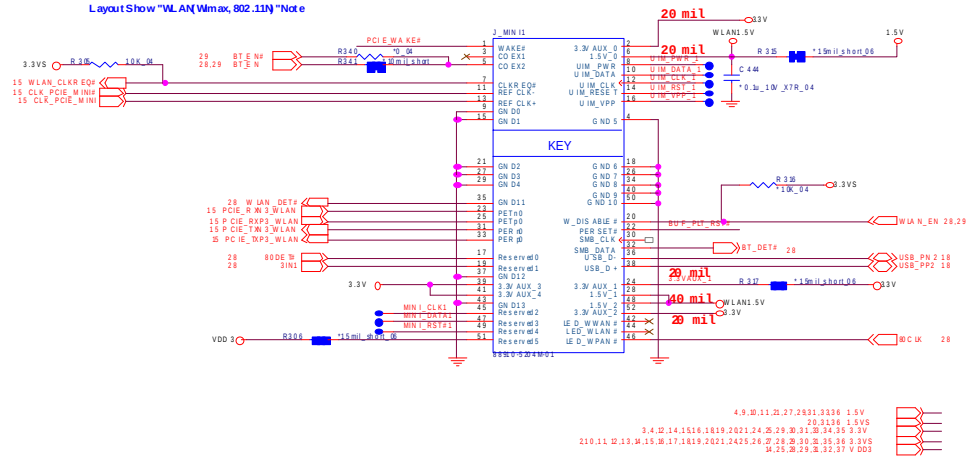
New Card, Mini PCIE

Sheet 23 of 40
New Card, Mini PCIE

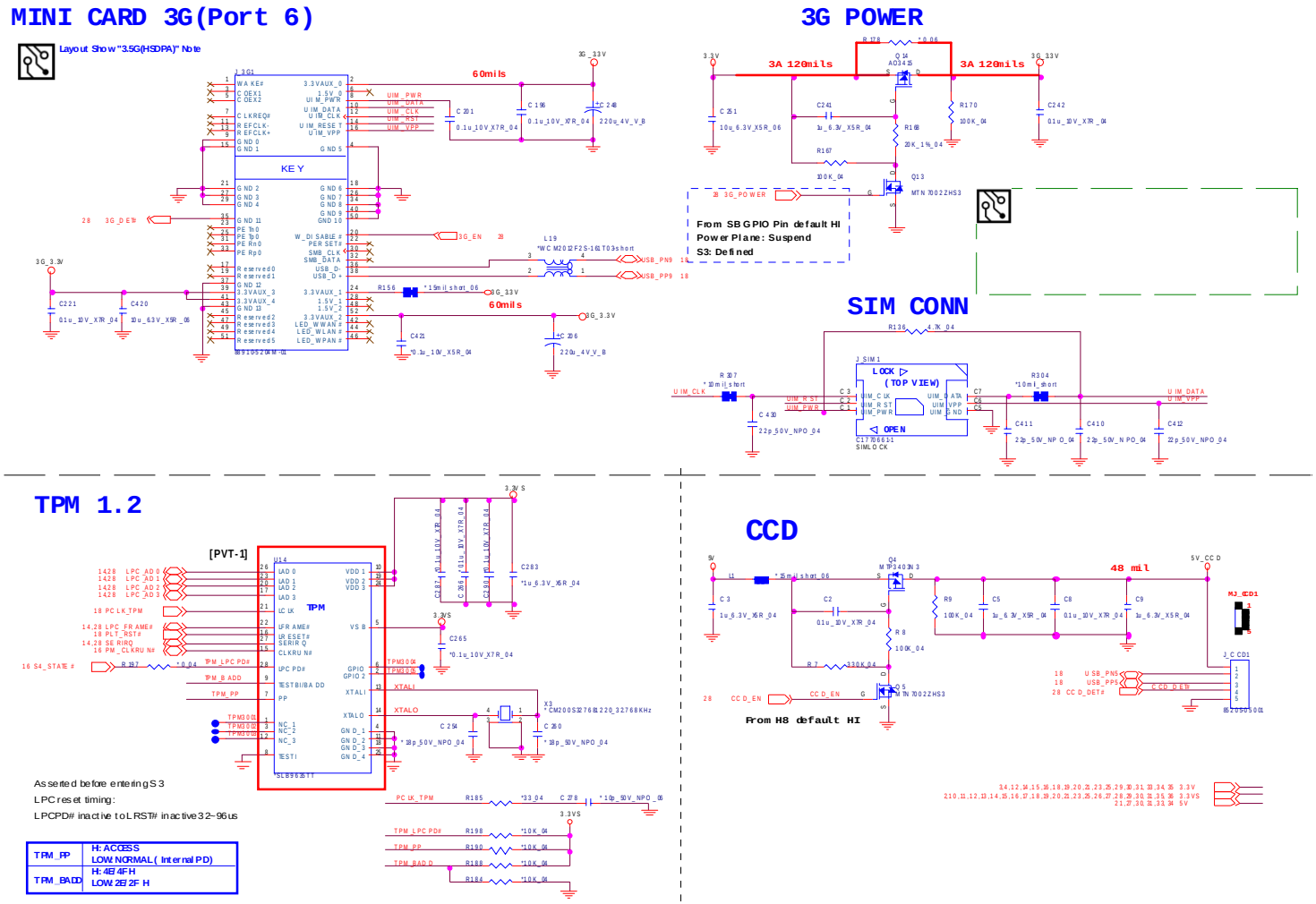
NEW CARD(Port 8)



MINI CARD (WLAN,Port 5)



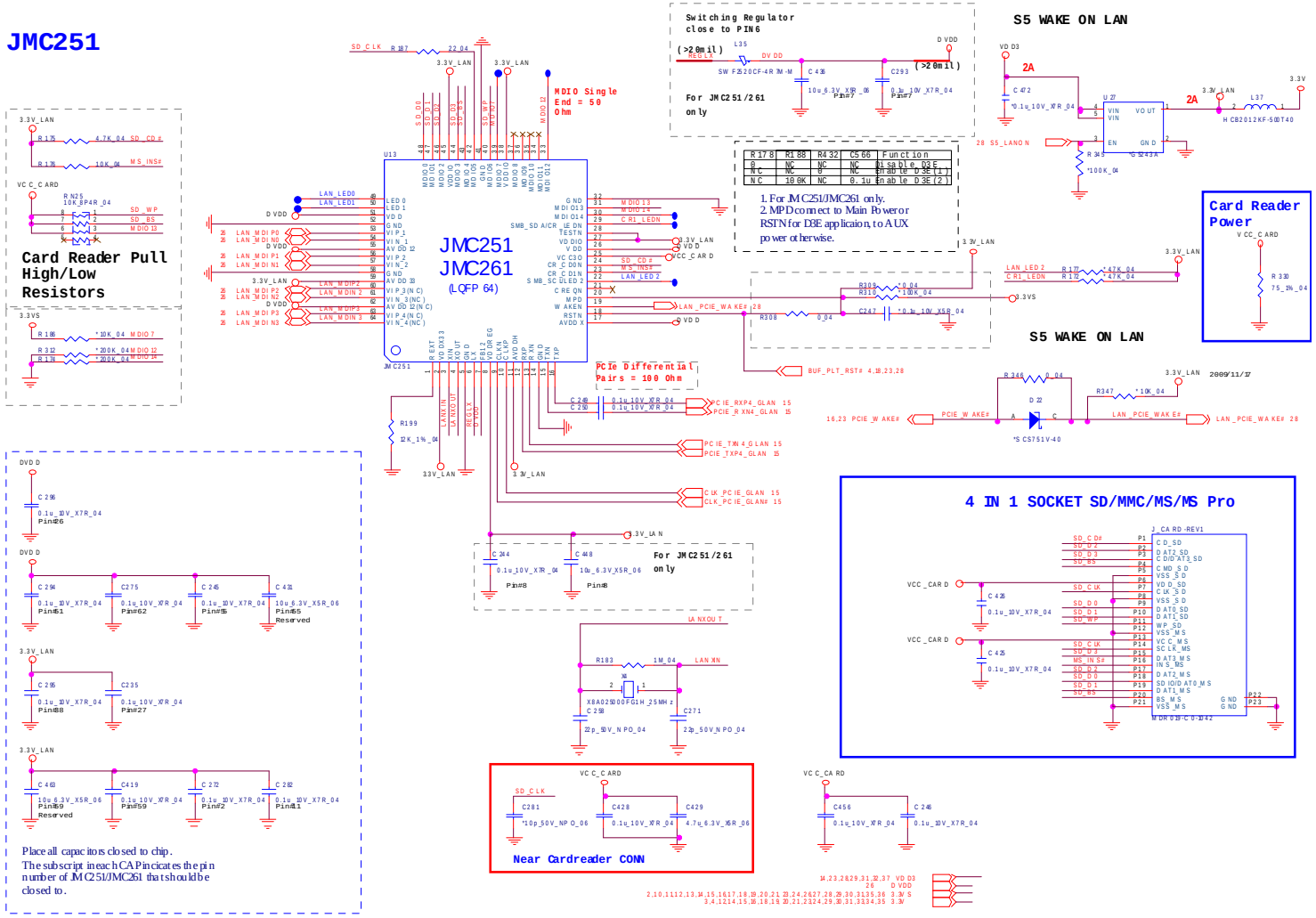
CCD, 3G, TPM



Sheet 24 of 40
CCD, 3G, TPM

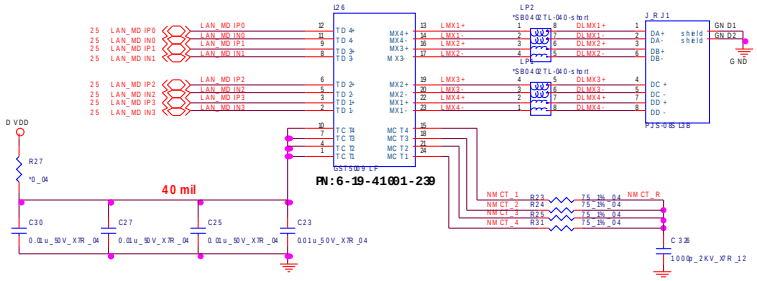
Card Reader, LAN (JMB251)

Sheet 25 of 40
Card Reader, LAN (JMB251)



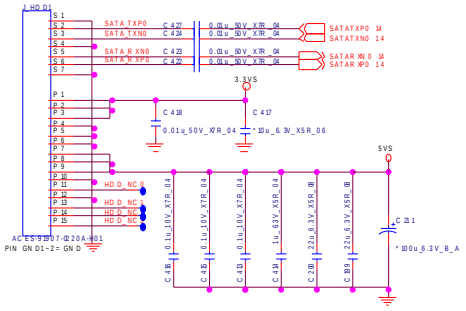
LAN (JMC251), SATA HDD, ODD

GIGA LAN (JMC251)

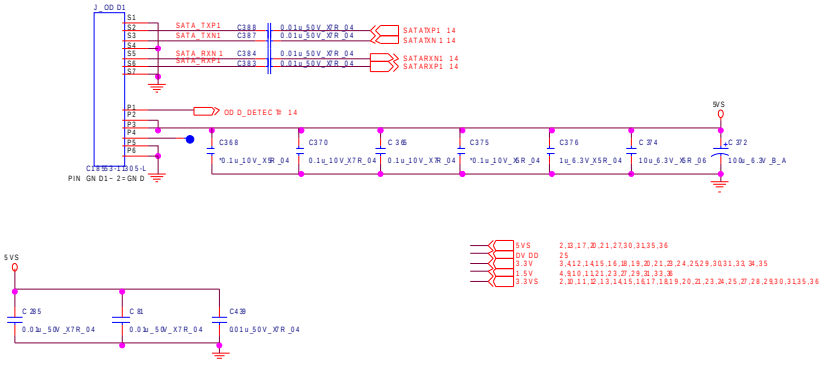


Sheet 26 of 40
LAN (JMC251),
SATA HDD, ODD

SATA HDD

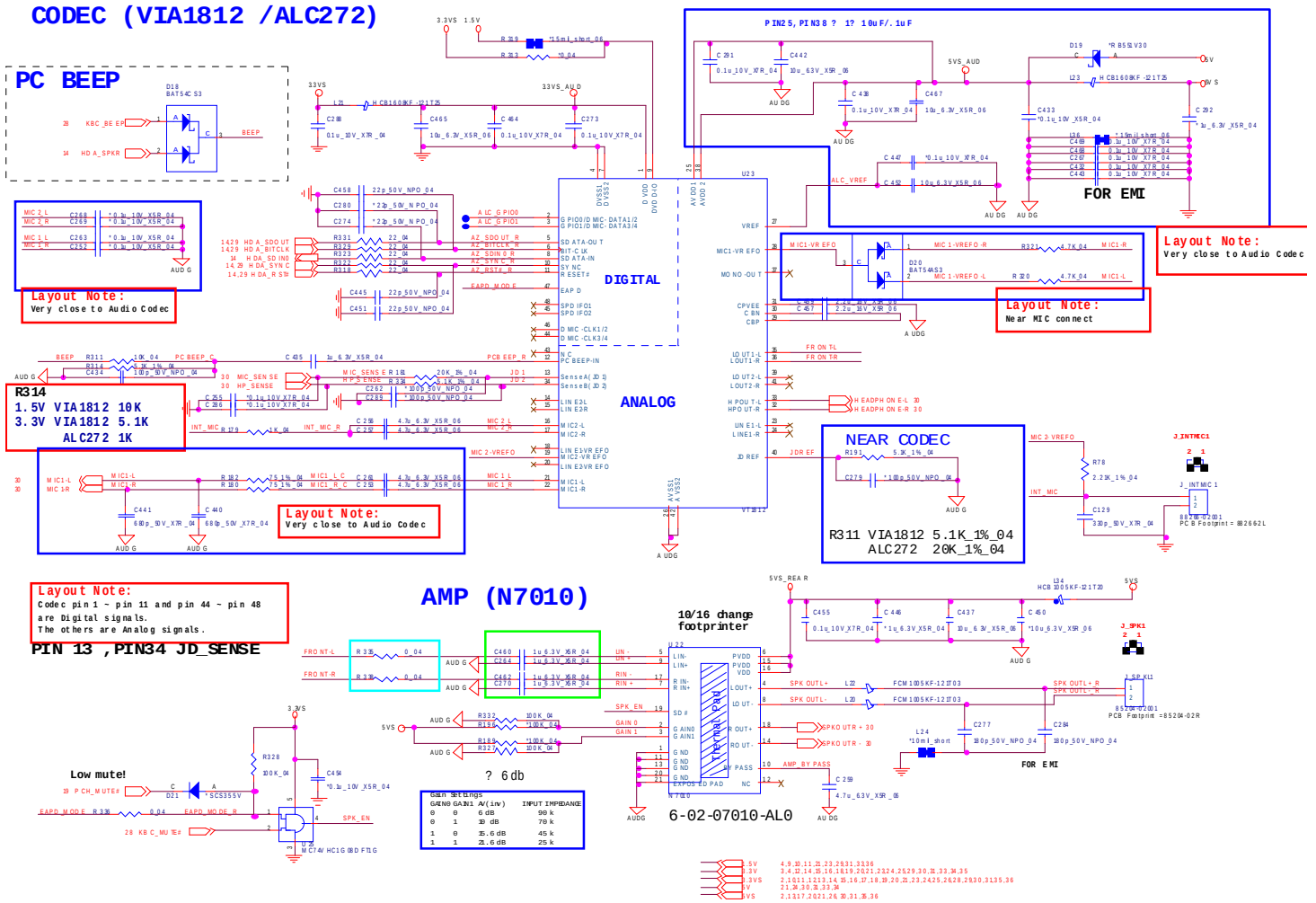


SATA ODD

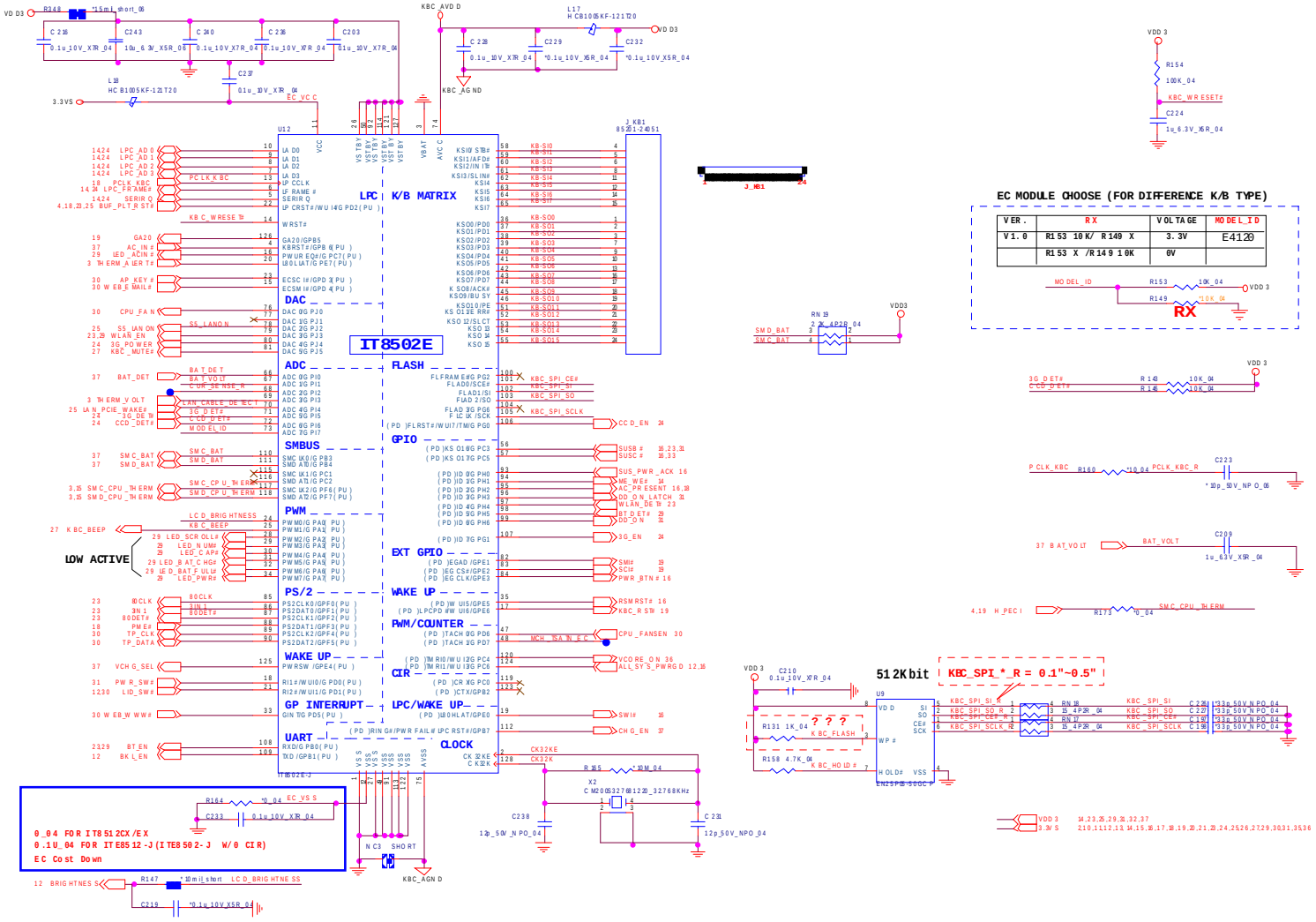


Audio Codec VIA 1812

Sheet 27 of 40
Audio Codec
VIA1812



KBC-ITE IT8502E



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KBC-ITE IT8502E

LED, MDC, BT

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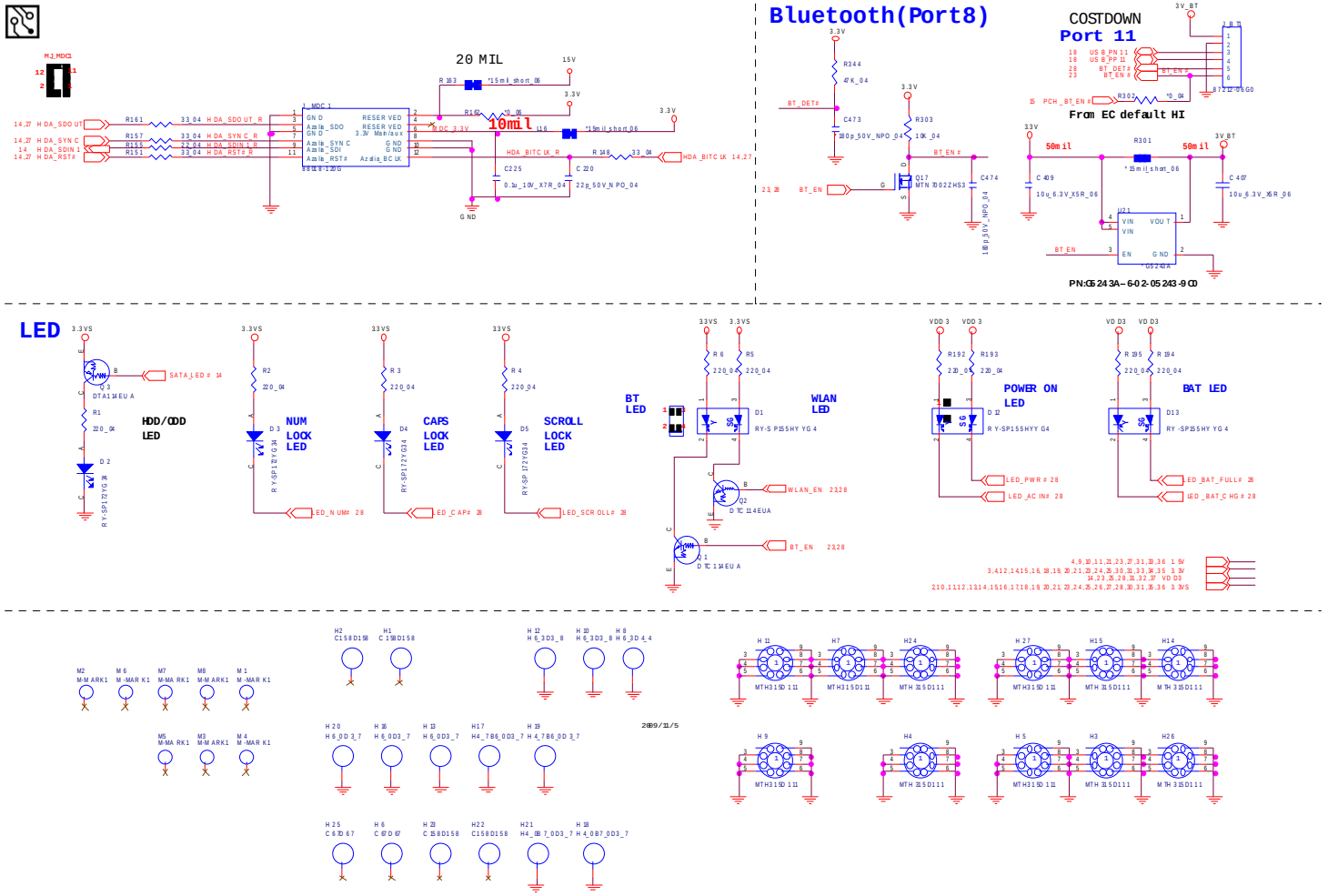
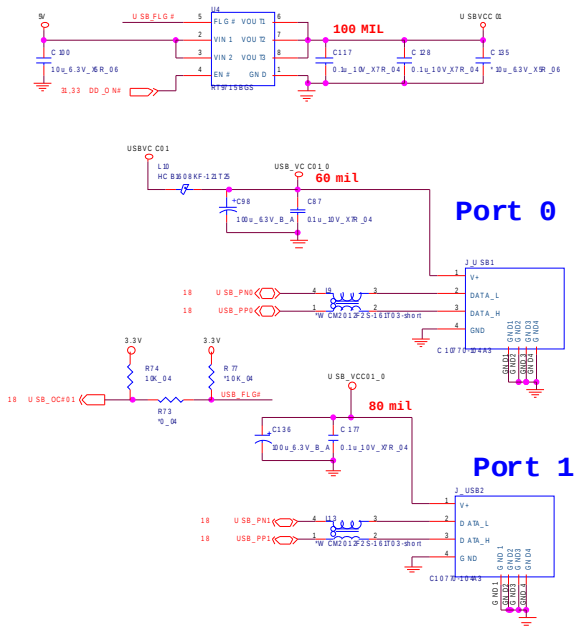
LED, MDC, BT

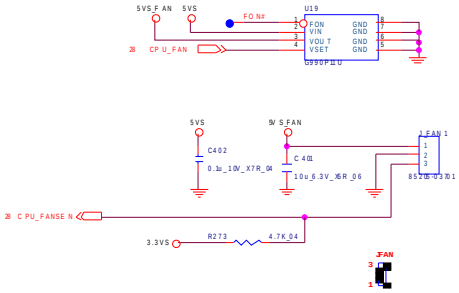


USB, Fan, TP, Multi Con1

USB PORT*2(Port 0,Port1)

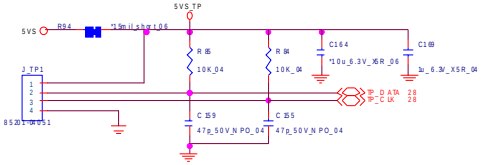


FAN CONTROL



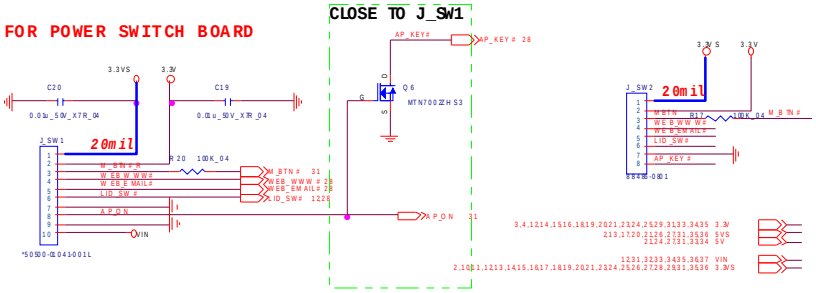
CLICK CONN

FOR CLICK BOARD



POWER SWITCH CONN.

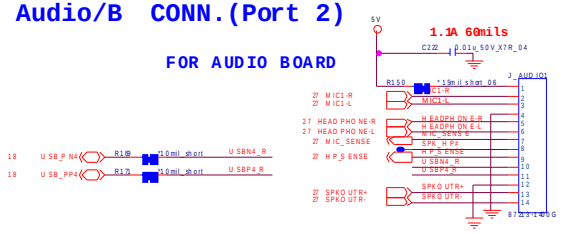
FOR POWER SWITCH BOARD



If system has APON function, uses J_SW1
If system has no APON function, uses J_SW2

Audio/B CONN.(Port 2)

FOR AUDIO BOARD



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USB, Fan, TP, Multi Con

5VS, 3VS, 1.05VS

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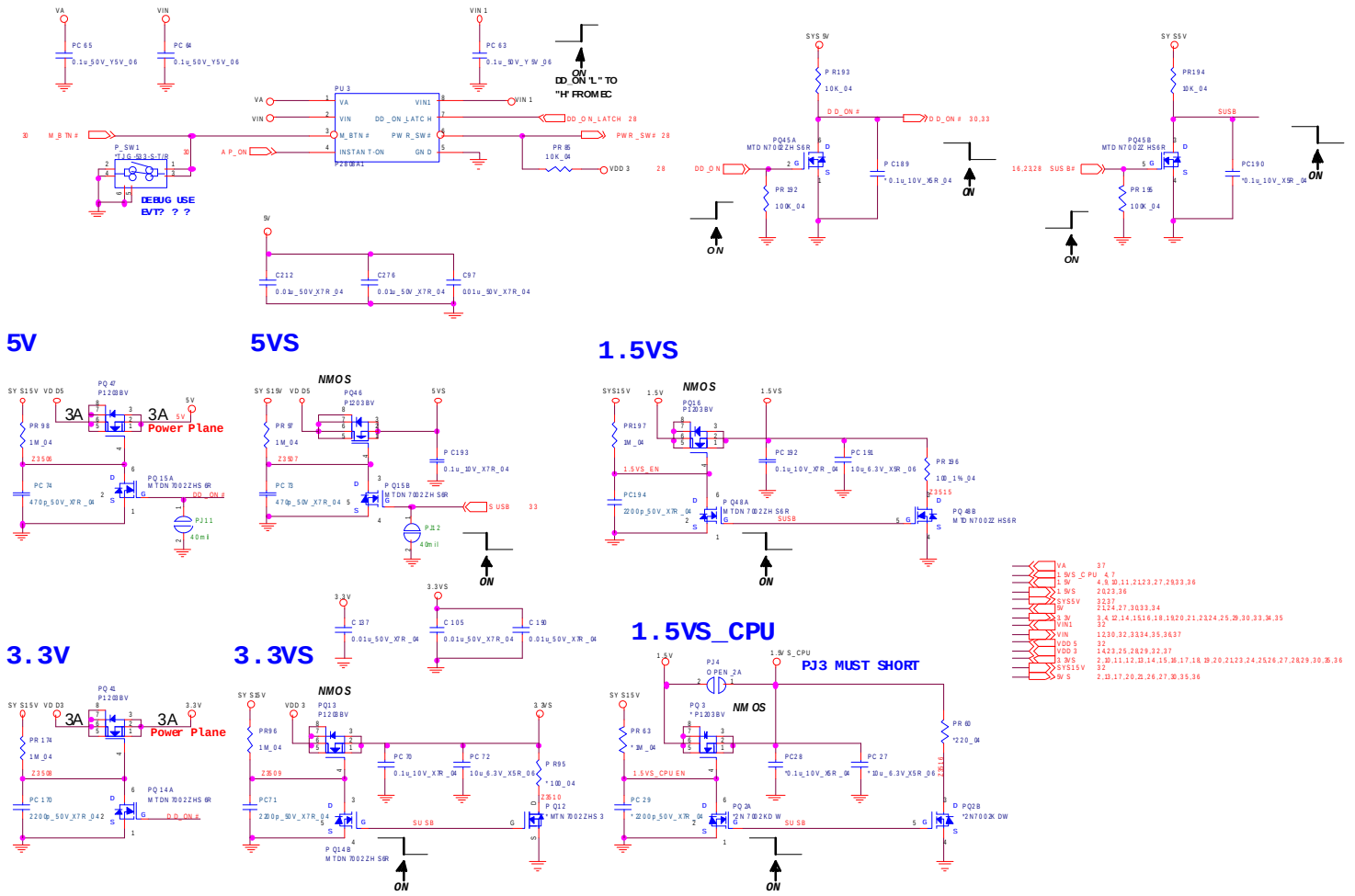
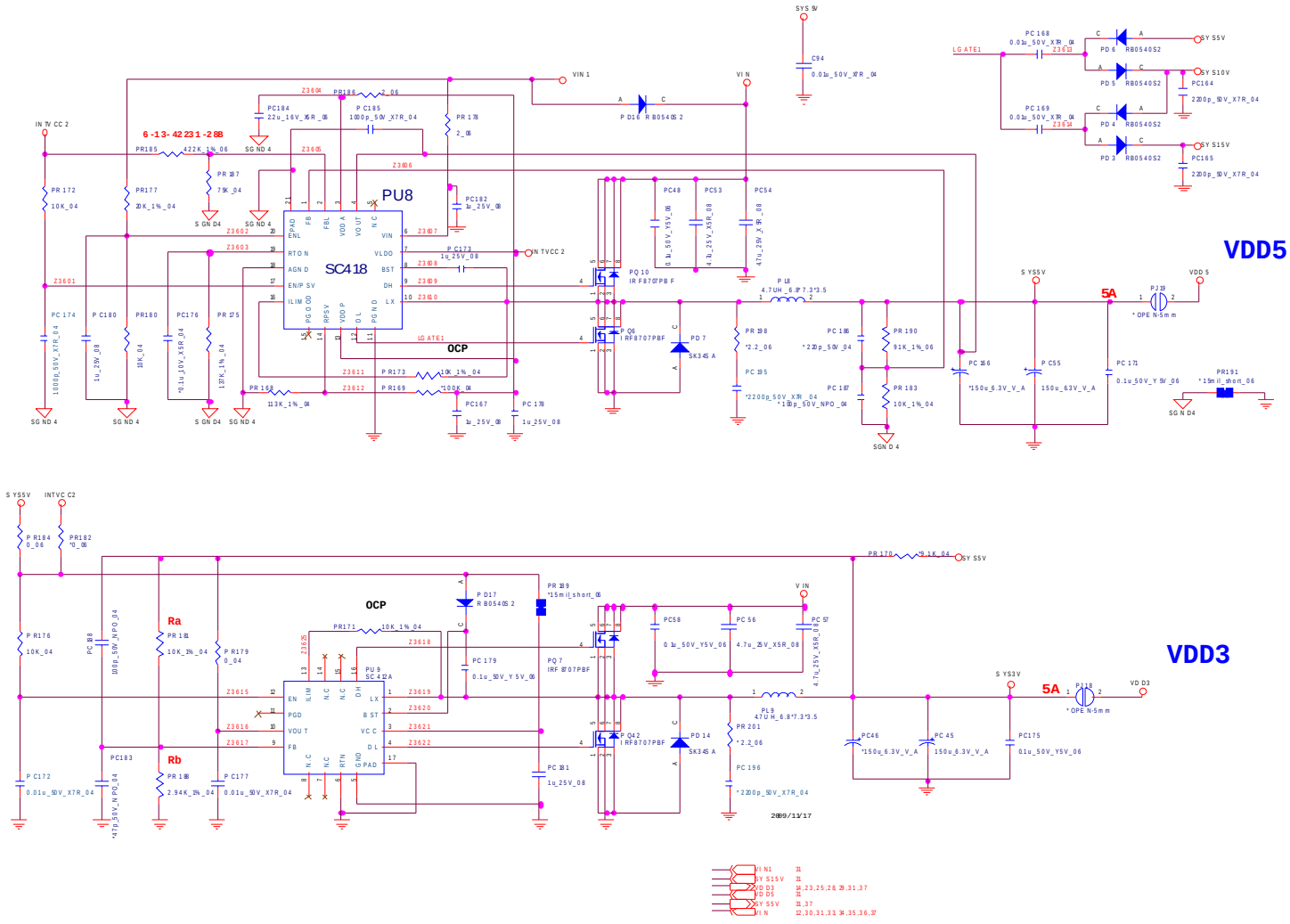
5VS, 3VS, 1.05VS



Power 3.3V/5V



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Power 3.3V/5V

Power 1.5V/0.75V/1.8VS

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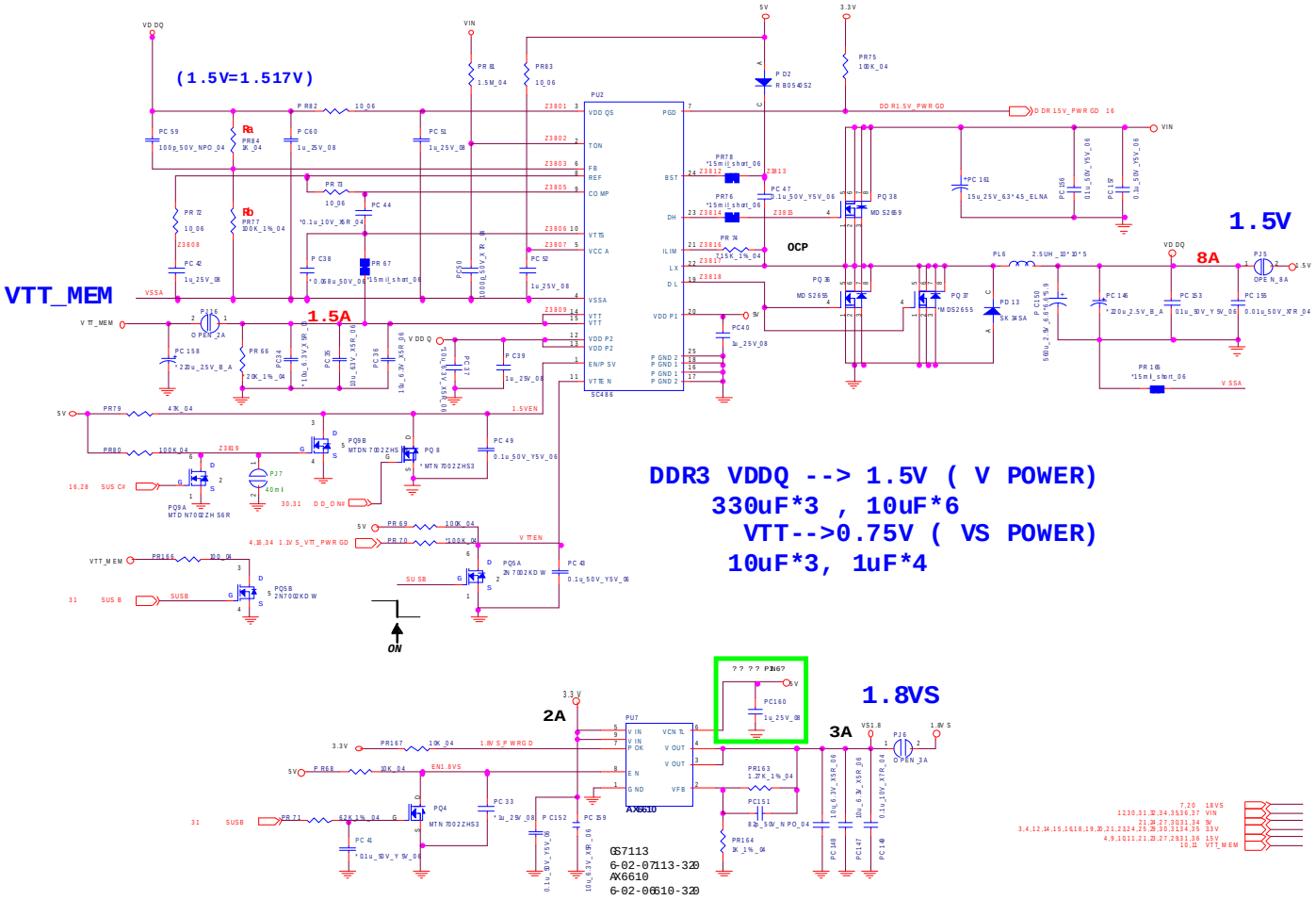
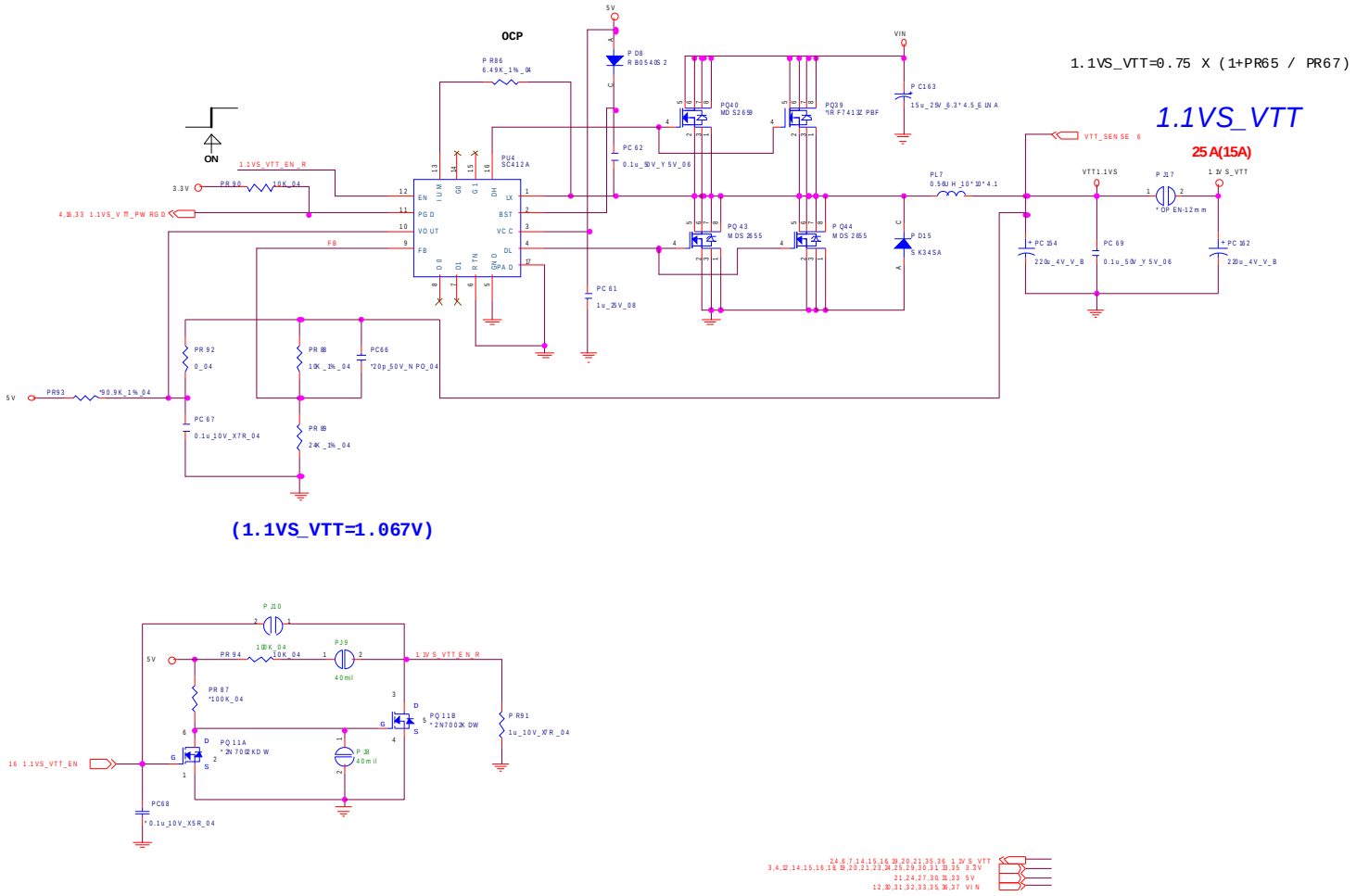
Power 1.5V/0.75V/
1.8VS



Power 1.1VS_VTT



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Power 1.1VS_VTT

Power VGFX_CORE

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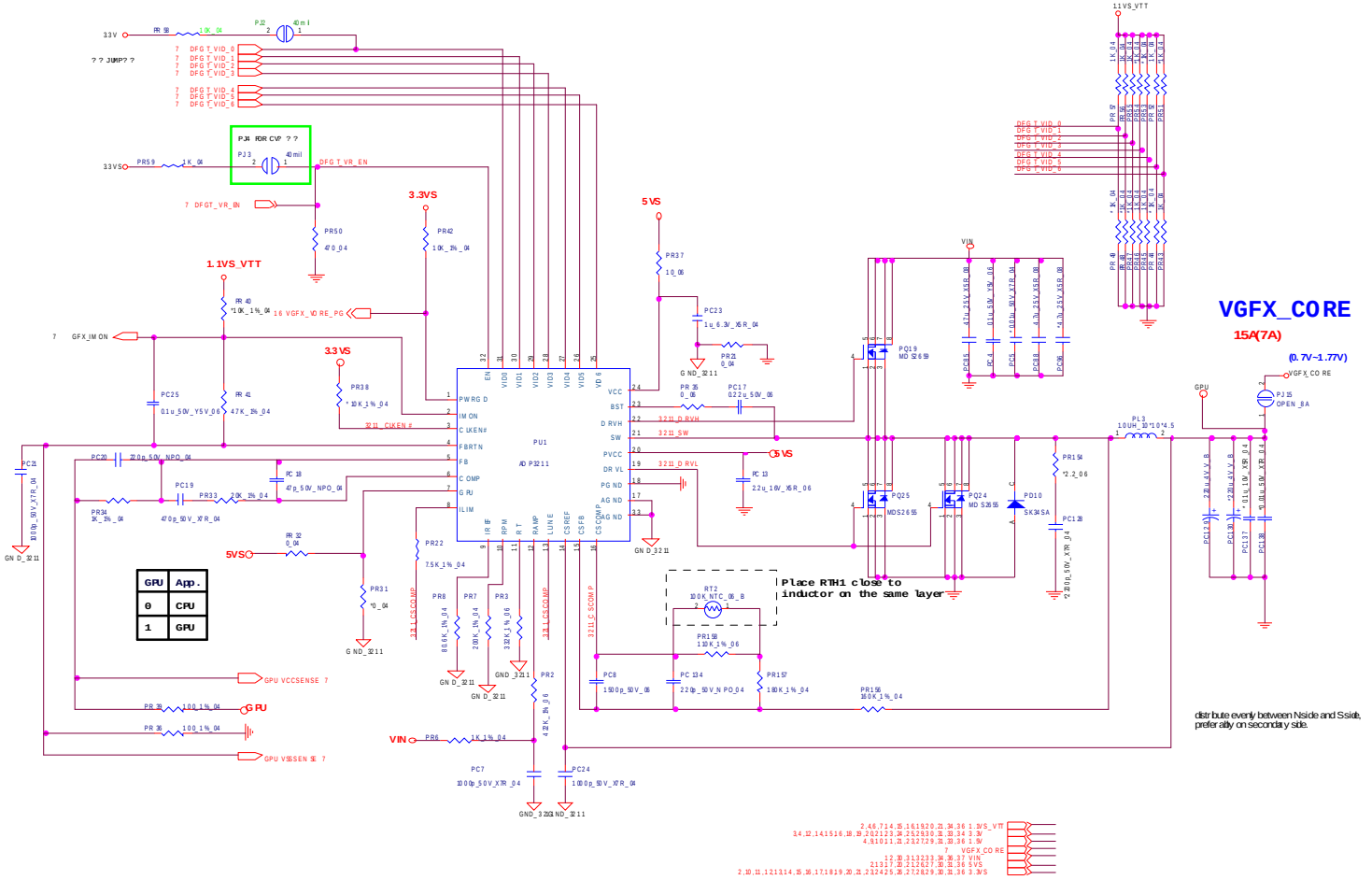
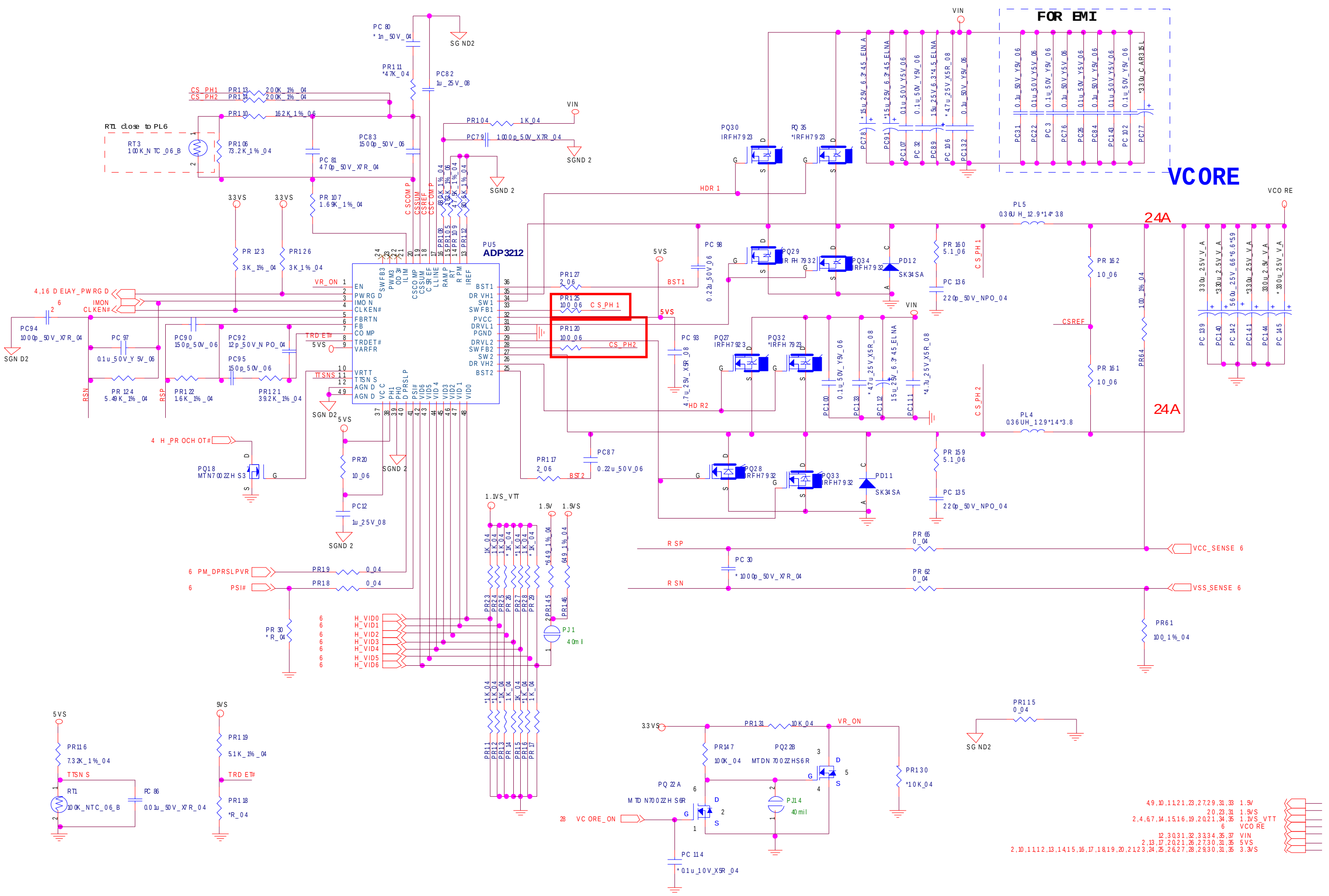
Power VGFX_Core



V-Core



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V-Core

DC-In, Charger

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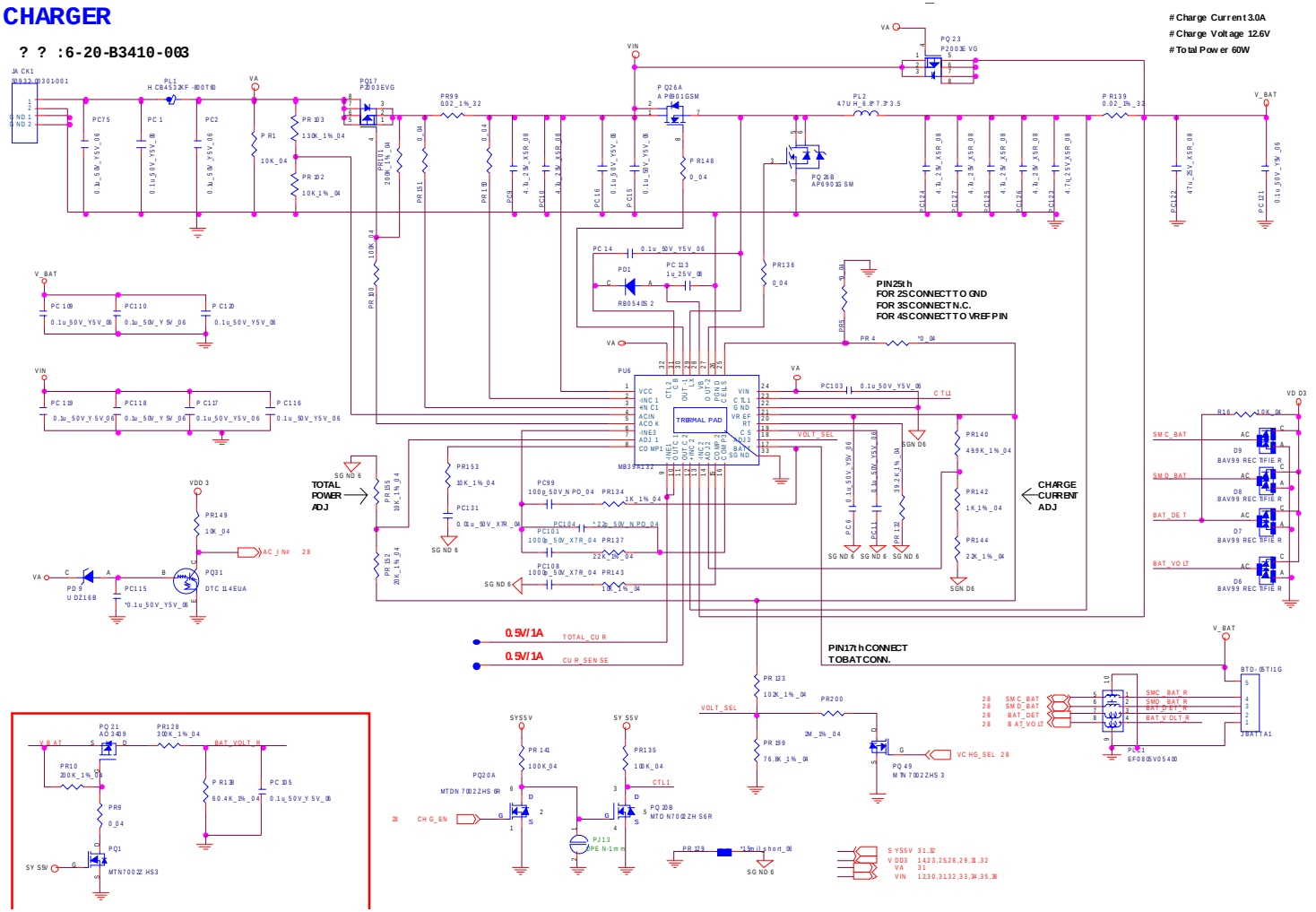
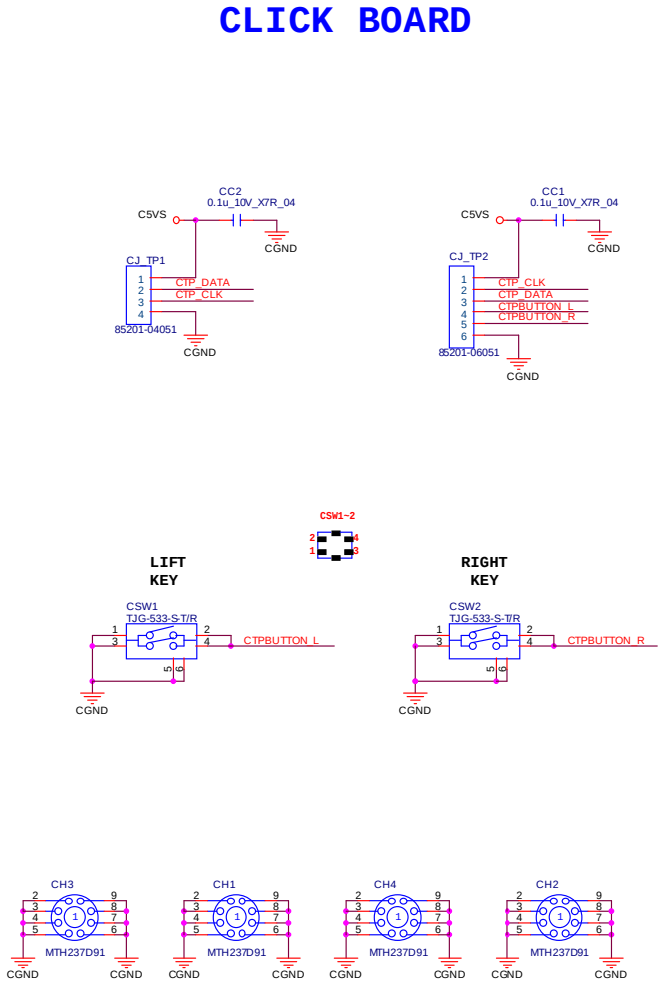
DC-In, Charger



Click Board



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Click Board

Audio / USB / RJ11 Board

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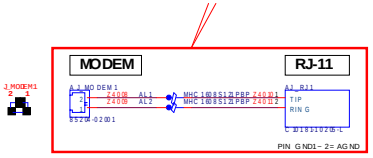
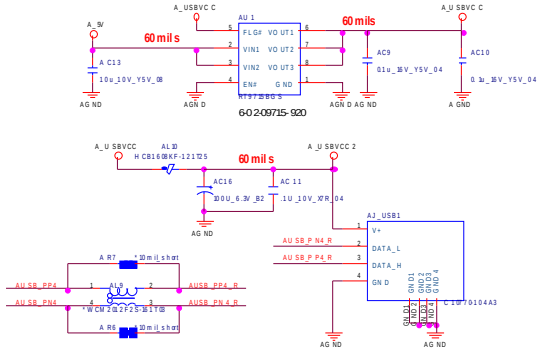
Audio / USB / RJ11 Board

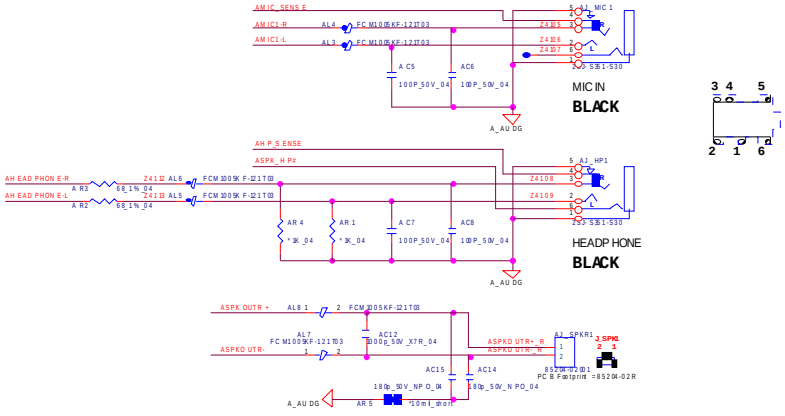
RJ-11



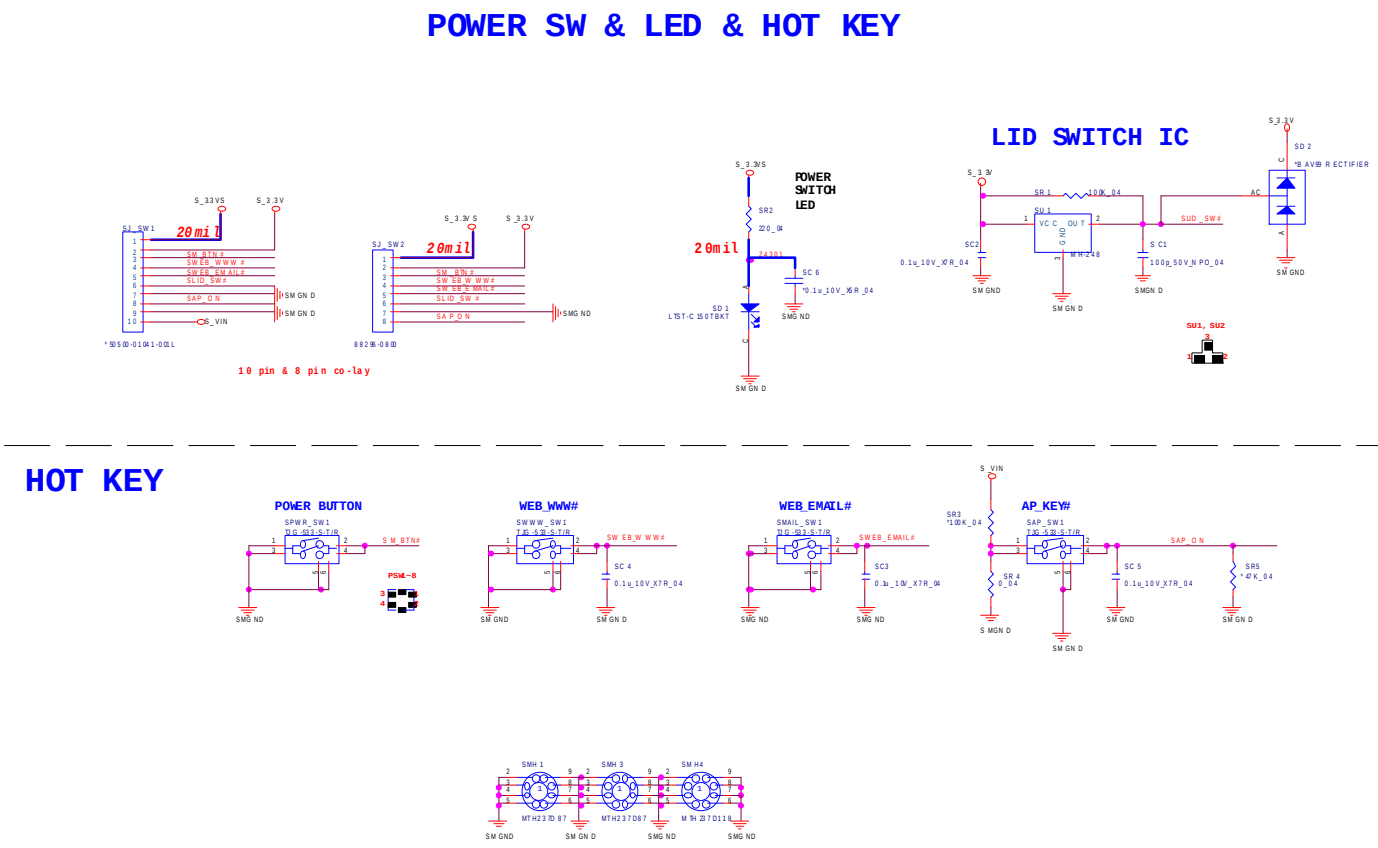
USB PORT



AUDIO JACK



Power Switch & LID Board



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Power Switch & LID Board