

SERVICE MANUAL

W251EUQ/W253EUQ/W255EU/W258EUQ

notebook



Notebook Computer

W251EUQ/W253EUQ/W255EU/W258EUQ

Service Manual

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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 *W251EUQ/W253EUQ/W255EU/W258EUQ* 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

Appendix C, Updating the FLASH ROM BIOS

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 (**65W**) minimum AC/DC Adapter.

CAUTION

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

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

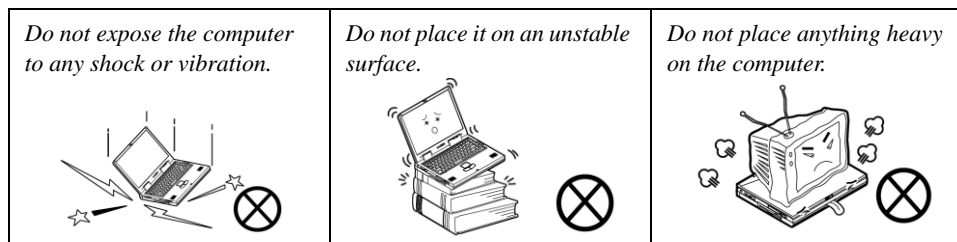
This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.

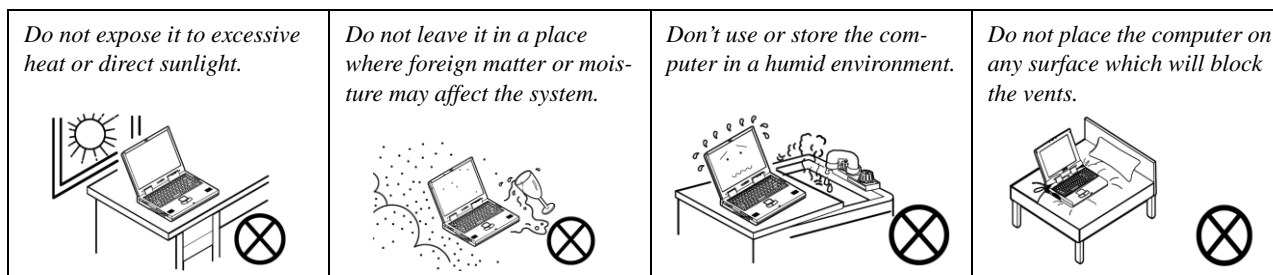
Instructions for Care and Operation

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

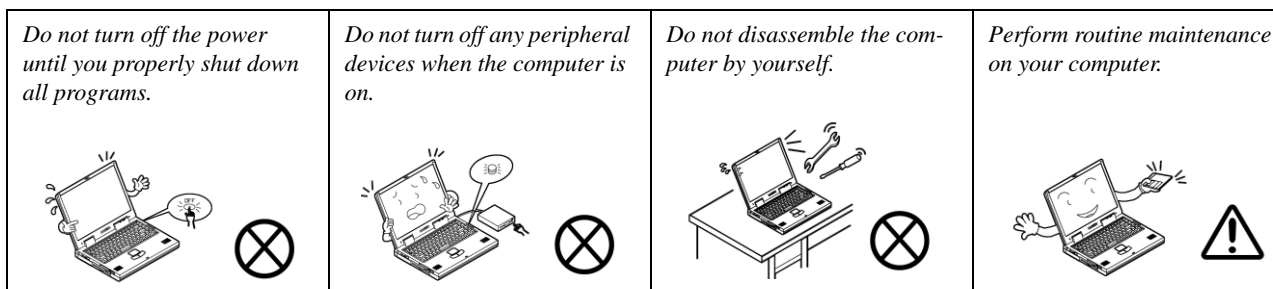
1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.



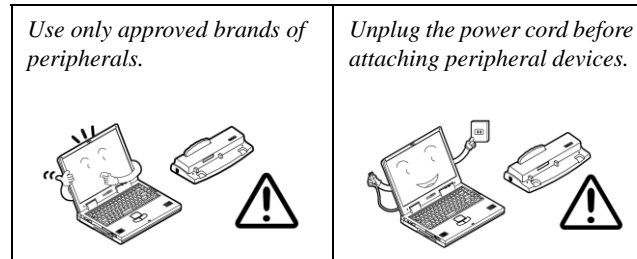
2. **Keep it dry, and don't overheat it.** Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.



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.



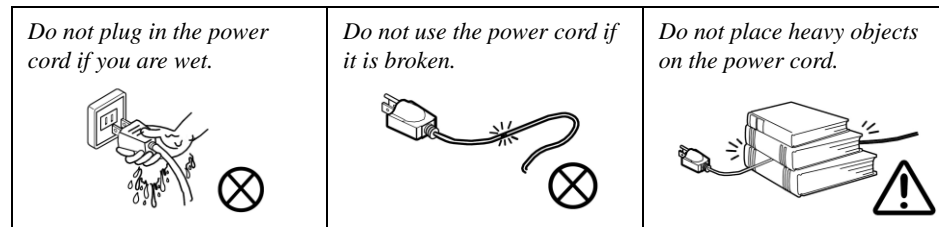
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



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.

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/DVD

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.

System Startup

1. Remove all packing materials.
2. Place the computer on a stable surface.
3. Insert the battery and make sure it is locked in position.
4. Securely attach any peripherals you want to use with the computer (e.g. keyboard and mouse) to their ports.
5. Attach the AC/DC adapter to the DC-In jack at the rear of the computer, then plug the AC power cord into an outlet, and connect the AC power cord to the AC/DC adapter.
6. Use one hand to raise the lid/LCD to a comfortable viewing angle (do not exceed 130 degrees); use the other hand (as illustrated in Figure 1) to support the base of the computer (**Note: Never** lift the computer by the lid/LCD).
7. Press the power button to turn the computer "on".



Figure 1
**Opening the Lid/LCD/
Computer with AC/DC
Adapter Plugged-In**

Shut Down

Note that you should always shut your computer down by choosing **Shut Down** from the **Start** Menu.

This will help prevent hard disk or system problems.

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Chapter 1: Introduction

Overview

This manual covers the information you need to service or upgrade the **W251EUQ/W253EUQ/W255EU/W258EUQ** 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 the *User's Manual*. The manual is shipped with the computer.

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

The **W251EUQ/W253EUQ/W255EU/W258EUQ** 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 take note of the warning and safety information indicated by the “” symbol.

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

Introduction

Specifications



Latest Specification Information

The specifications listed here are correct at the time of sending them to the press. Certain items (particularly processor types/speeds) may be changed, delayed or updated due to the manufacturer's release schedule. Check with your service center for more details.



CPU

The CPU is not a user serviceable part. Accessing the CPU in any way may violate your warranty.

Processor

Intel® Core™ i7 Processor

i7-3612QM (2.1GHz)

6MB L3 Cache, 22nm, DDR3-1600MHz, TDP 35W

i7-3520M (2.90GHz)

4MB L3 Cache, 22nm, DDR3-1600MHz, TDP 35W

Intel® Core™ i5 Processor

i5-3360M (2.80GHz), i5-3320M (2.60GHz), i5-3210M (2.50GHz)

3MB L3 Cache, 22nm, DDR3-1600MHz, TDP 35W

Intel® Core™ i3 Processor

i3-3110M (2.40GHz)

3MB L3 Cache, 22nm, DDR3-1600MHz, TDP 35W

Intel® Core™ i7 Processor

i7-2620M (2.7GHz)

4MB L3 Cache, 32nm, DDR3-1333MHz, TDP 35W

Intel® Core™ i5 Processor

i5-2540M (2.60GHz), i5-2520M (2.50GHz), i5-2450M (2.50GHz), i5-2430M (2.40GHz), i5-2410M (2.30GHz)

3MB L3 Cache, 32nm, DDR3-1333MHz, TDP 35W

Intel® Core™ i3 Processor

i3-2370M (2.40GHz), i3-2350M (2.30GHz), i3-2330M (2.20GHz), i3-2310M (2.10GHz)

3MB L3 Cache, 32nm, DDR3-1333MHz, TDP 35W

Intel® Pentium® Processor

B970 (2.30GHz), B960 (2.20GHz), B950 (2.10GHz), B940 (2.00GHz)

2MB L3 Cache, 32nm, DDR3-1333MHz, TDP 35W

Intel® Celeron® Processor

B840 (1.90GHz), B815 (1.60GHz), B810 (1.60GHz), B800 (1.50GHz)

2MB L3 Cache, 32nm, DDR3-1333MHz, TDP 35W

B720 (1.70GHz), B710 (1.60GHz)

1.5MB L3 Cache, 32nm, DDR3-1333MHz, TDP 35W

Core Logic

Intel® HM76 Chipset

Display

15.6" (39.62cm) HD/ HD+/ FHD

Memory

Two 204 Pin SO-DIMM Sockets Supporting **DDR3 1333/1600MHz** Memory

Memory Expandable up to 8GB

(The real memory operating frequency depends on the FSB of the processor.)

Video Adapter

Intel Integrated GPU

(GPU is Dependent on Processor)

Intel® HD Graphics

Dynamic Frequency (Intel Dynamic Video Memory Technology for up to 1.7GB)

Microsoft DirectX®10 Compatible

Intel® HD Graphics 3000

Dynamic Frequency (Intel Dynamic Video Memory Technology for up to 1.7GB)

Microsoft DirectX®10 Compatible

Intel® HD Graphics 4000

Dynamic Frequency (Intel Dynamic Video Memory Technology for up to 1.7GB)

Microsoft DirectX®11 Compatible

BIOS

One 48Mb SPI Flash ROM
AMI BIOS

Storage

(Factory Option) One Changeable 12.7mm(h) Optical Device Type Drive (Super Multi Drive Module or Blu-Ray Combo Drive Module)
One Changeable 2.5" 9.5mm (h) SATA HDD

Security

Security (Kensington® Type) Lock Slot
BIOS Password

Audio

High Definition Audio Compliant Interface
2 * Built-In Speakers
Built-In Microphone

Pointing Device

Built-in Touchpad

Keyboard

Full-size "WinKey" keyboard (with numeric keypad)

Interface

One HDMI-Out Port
One Headphone-Out Jack
One Microphone-In Jack
One RJ-45 LAN Jack
One External Monitor Port
One USB 2.0 Port
Two USB 3.0 Ports
One DC-in Jack

Card Reader

Embedded Multi-In-1 Card Reader
MMC (MultiMedia Card) / RS MMC
SD (Secure Digital) / Mini SD / SDHC/ SDXC
MS (Memory Stick) / MS Pro / MS Duo

Mini Card Slots

Slot 1 for WLAN Module or Combo WLAN and Bluetooth Module
(Factory Option) Slot 2 for 3.75G/HSPA Module

Communication

Built-In Gigabit Ethernet LAN
(Factory Option) 300K/1.3M Pixel USB PC Camera Module
(Factory Option) 3.75G/HSPA Mini-Card Module

WLAN/ Bluetooth Half Mini-Card Modules:

(Factory Option) Intel® Centrino® Wireless-N 2230 Wireless LAN (**802.11b/g/n**) + Bluetooth 4.0
(Factory Option) Intel® Centrino® Wireless-N 135 Wireless LAN (**802.11b/g/n**) + Bluetooth 4.0
(Factory Option) Third-Party Wireless LAN (**802.11b/g/n**) + Bluetooth 3.0
(Factory Option) Third-Party Wireless LAN (**802.11b/g/n**) + Bluetooth 4.0

Operating Systems

Windows® 7 (with Service Pack 1)

Power

6 Cell Smart Lithium-Ion Battery Pack, 48.84WH
(Factory Option) 6 Cell Smart Lithium-Ion Battery Pack, 62.16WH

Full Range AC/DC Adapter
AC Input: 100 - 240V, 50 - 60Hz
DC Output: 19V, 3.42A or 18.5V, 3.5A (**65W**)

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

374mm (w) * 250mm (d) * 14.3 - 34.1mm (h)
2.3 kg (with 48.84WH Battery and ODD)
Or
374mm (w) * 250mm (d) * 20 - 37.2mm (h)
2.6 kg (with 48.84WH Battery and ODD)

Introduction

External Locator - Top View with LCD Panel Open

Figure 1
Top View

1. PC Camera
(Optional)
2. LCD
3. Power Button
4. LED Status Indicators
5. Keyboard
6. Built-In Microphone
*Note that the microphone location is dependent upon your model design
7. Touchpad & Buttons



External Locator - Front & Right Side Views

FRONT VIEW



RIGHT SIDE VIEW



Figure 2
Front View

1. LED Power Indicator

Figure 3
Right Side View

1. Microphone-In Jack
2. Headphone-Out Jack
3. USB 2.0 Port
4. Optical Device Drive Bay
5. Emergency Eject Hole

Introduction

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. USB 3.0 Ports
6. Vent
7. Multi-in-1 Card Reader

LEFT SIDE VIEW

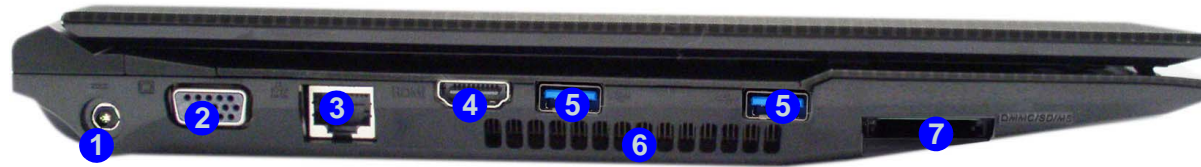


Figure 5
Rear View

1. Security Lock Slot
2. Battery

REAR VIEW



External Locator - Bottom View

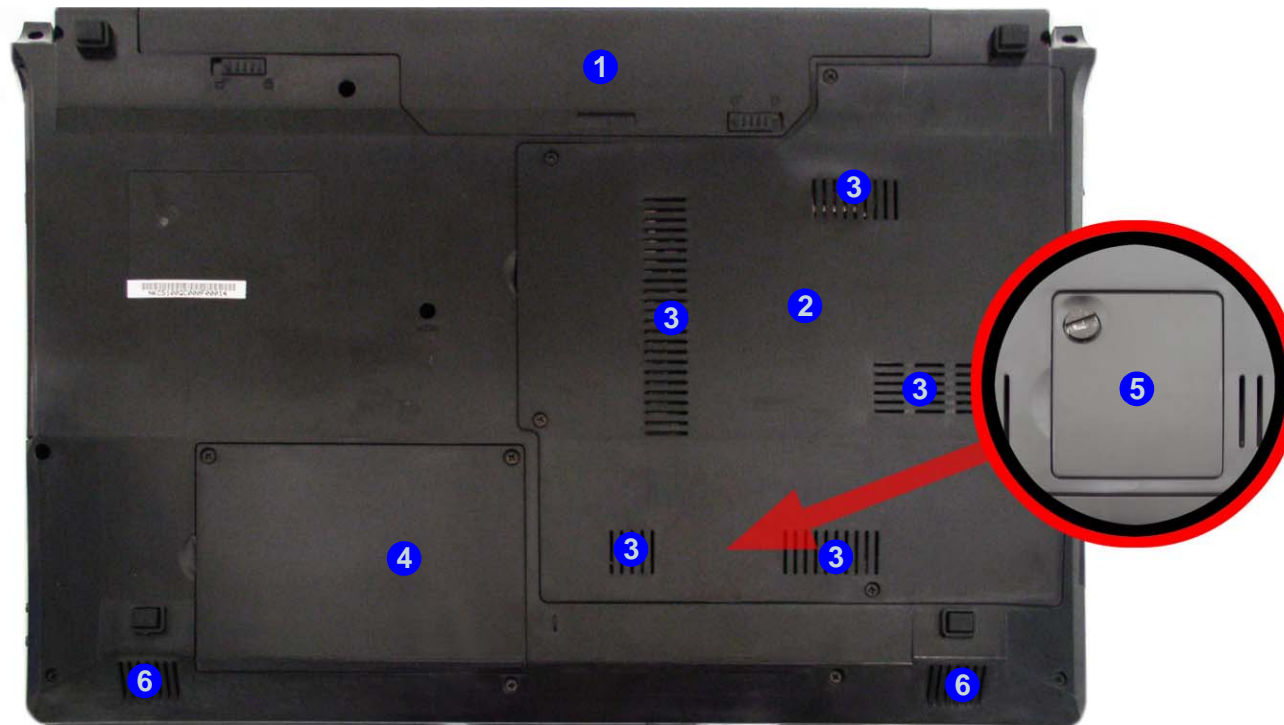


Figure 6
Bottom View

1. Battery
2. Component Bay Cover
3. Vent
4. Hard Disk Bay Cover
5. 3.75G USIM Card Cover (Optional)
6. Speakers



Overheating

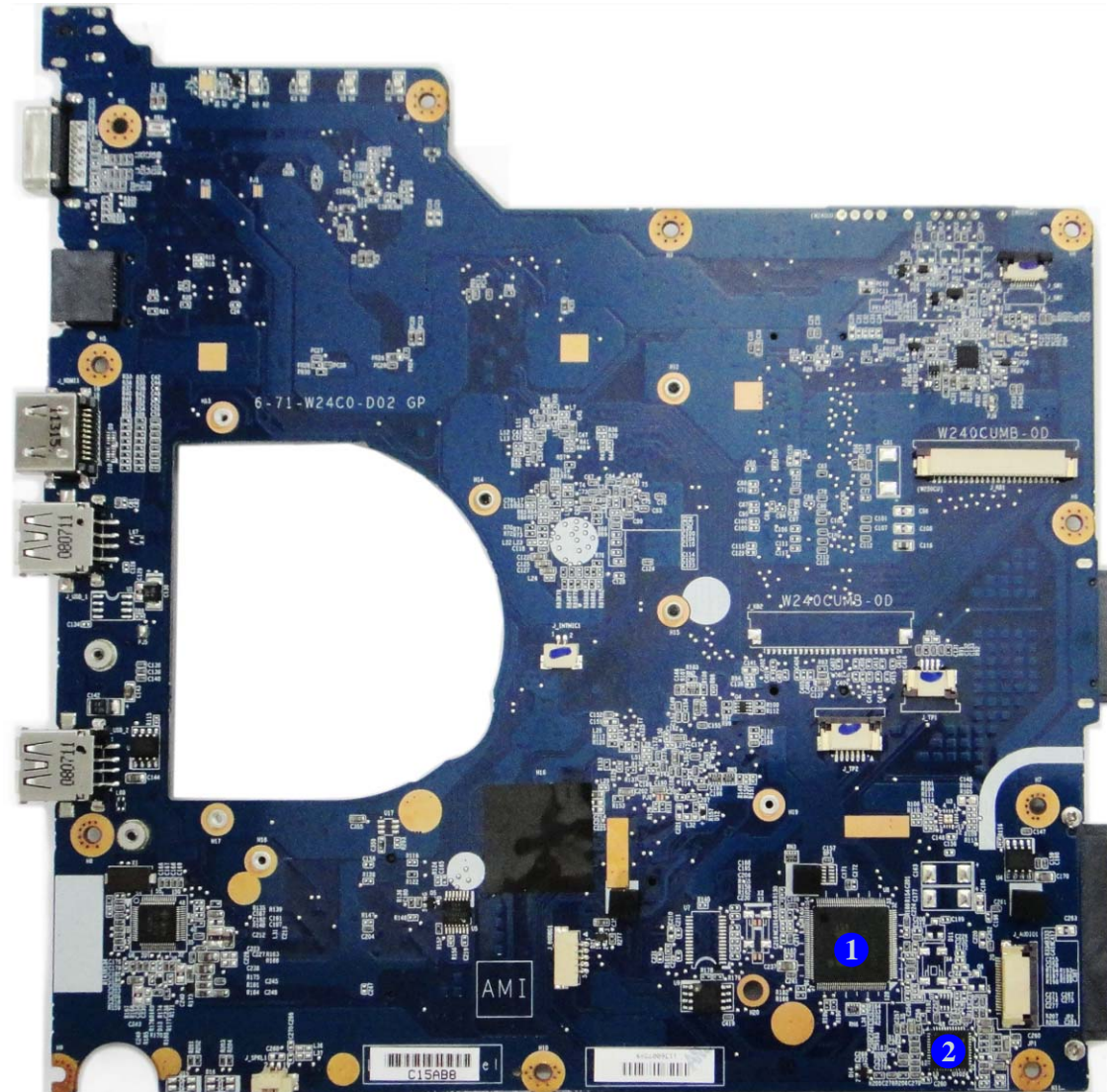
To prevent your computer from overheating, make sure nothing blocks any vent while the computer is in use.

Introduction

Figure 7
**Mainboard Top
Key Parts**

1. ITE 8518E
2. AZALIA Codec

Mainboard Overview - Top (Key Parts)



Mainboard Overview - Bottom (Key Parts)



Figure 8
**Mainboard Bottom
Key Parts**

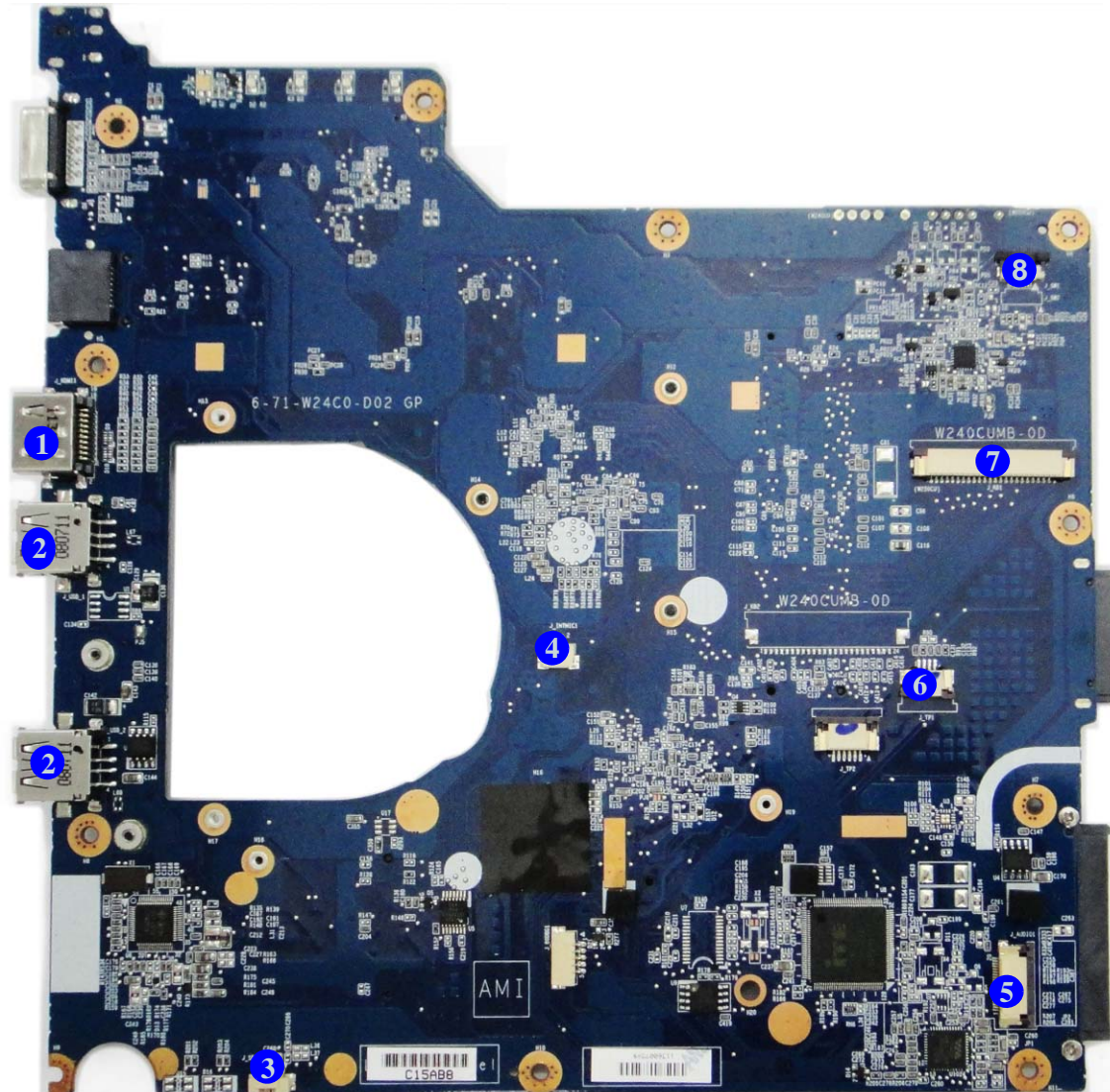
1. Memory Slots
DDR3 SO-DIMM
2. Accelerated
Processing Unit
3. Intel NM10 PCH
4. CMOS Battery
5. Mini-Card
Connector (WLAN
Module)
6. Card Reader
Socket

Introduction

Figure 9
**Mainboard Top
Connectors**

1. HDMI-Out Port
2. USB Port 3.0
3. Speaker Cable Connector
4. Microphone Cable Connector
5. Audio Board Connector
6. TouchPad Cable Connector 1
7. Keyboard Cable Connector
8. Switch Board Cable Connector

Mainboard Overview - Top (Connectors)



Mainboard Overview - Bottom (Connectors)

Figure 10
Mainboard Bottom
Connectors



1. Battery Connector
2. ODD Connector
3. HDD Connector
4. CPU Fan Cable Connector
5. RJ-45 LAN Jack
6. External Monitor Port
7. DC-In Jack
8. CCD Cable Connector
9. LCD Cable Connector


Chapter 2: Disassembly



Overview

This chapter provides step-by-step instructions for disassembling the *W251EUQ/W253EUQ/W255EU/W258EUQ* 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.



Disassembly

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-borne 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.

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.



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.

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 3.75G Module:

1. Remove the battery *page 2 - 5*
2. Remove the 3.75G module *page 2 - 14*

To remove the Wireless LAN Module:

1. Remove the battery *page 2 - 5*
2. Remove the WLAN module *page 2 - 15*

To remove the Keyboard:

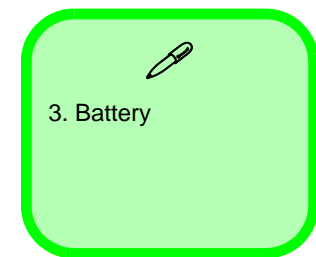
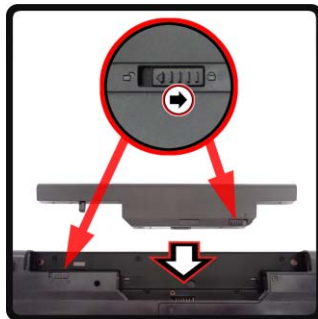
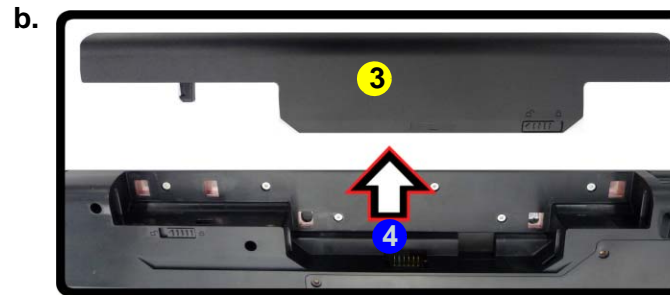
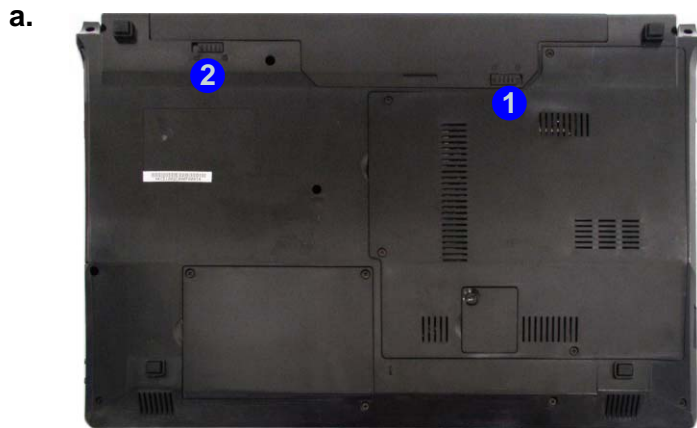
1. Remove the battery *page 2 - 5*
2. Remove the keyboard *page 2 - 16*

Removing the Battery

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

Figure 1
Battery Removal

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



Disassembly

Removing the Hard Disk Drive

Figure 2
**HDD Assembly
Removal**

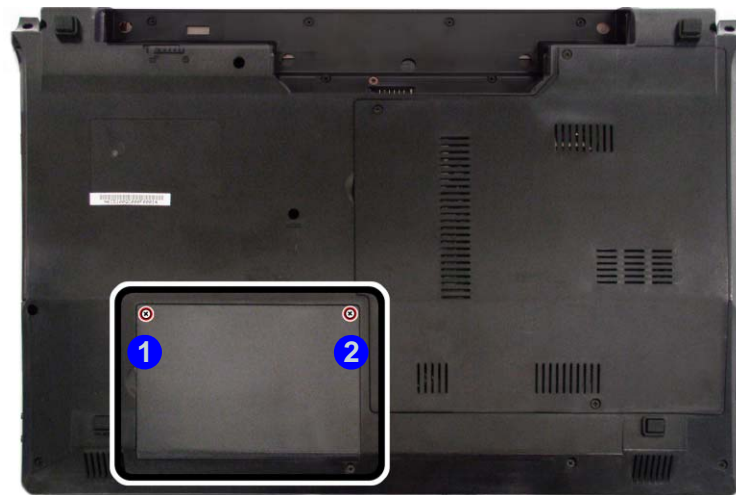
The hard disk drive can be taken out to accommodate other 2.5" serial (SATA) hard disk drives with a height of 9.5mm (h). Follow your operating system's installation instructions, and install all necessary drivers and utilities (as outlined in **Chapter 4 of the User's Manual**) when setting up a new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

- a. Locate the HDD bay cover and remove the screws.

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** ([Figure 2a](#)).

a.



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.



- 2 Screws

- Remove the hard disk bay cover **3** (*Figure 3b*).
- Grip the tab and slide the hard disk in the direction of arrow **4** (*Figure 3c*).
- Lift the hard disk assembly **5** out of the bay **6** (*Figure 3d*).
- Remove the screw **7** - **10** and the mylar cover **11** from the hard disk **12** (*Figure 3e*).
- Reverse the process to install a new hard disk (do not forget to replace all the screws and covers).

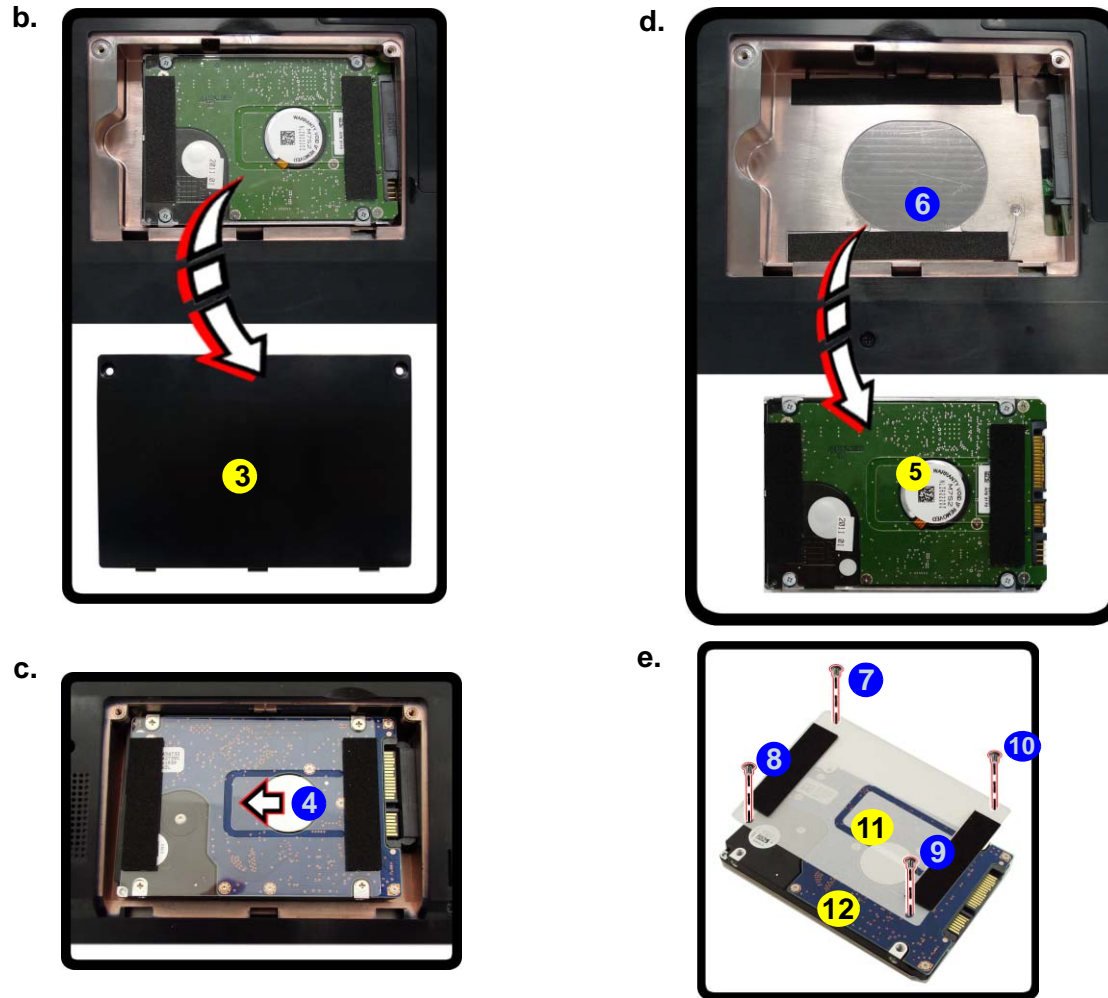


Figure 3
**HDD Assembly
Removal (cont'd.)**

- Remove the HDD bay cover.
- Grip the tab and slide the HDD assembly in the direction of the arrow.
- Lift the HDD assembly out of the bay.
- Remove the screws and mylar cover.



- 3. HDD Bay Cover
- 5. HDD Assembly
- 11. Mylar Cover
- 12. HDD

- 4 Screws

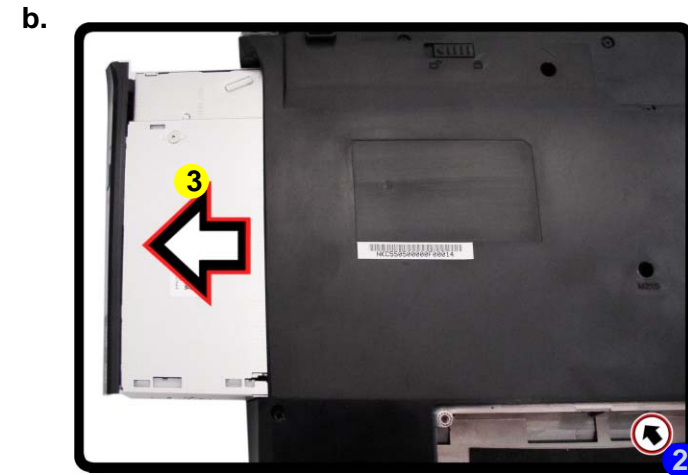
Disassembly

Figure 4
**Optical Device
Removal**

- Remove the screw at point ①.
- Use a screwdriver to carefully push out the optical device at point ②.

Removing the Optical (CD/DVD) Device

- Turn **off** the computer, remove the battery ([page 2 - 5](#)) and hard disk ([page 2 - 6](#)).
- Remove the screw at point ① ([Figure 4a](#)).
- Use a screwdriver to carefully push out the optical device ③ at point ② ([Figure 4b](#)).
- 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).
- Restart the computer to allow it to automatically detect the new device.



3. Optical Device

- 1 Screw

Removing the System Memory (RAM)

The computer has two memory sockets for 204 pin Small Outline Dual In-line Memory Modules (SO-DIMM) supporting DDRIII (DDR3) Up to 1066/1333 MHz. The main memory can be expanded up to 8GB. The SO-DIMM modules supported are 1024MB and 2048MB **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, turn it over and remove the battery ([page 2 - 5](#)).
2. Remove screws **1** - **4** from the component bay cover ([Figure 5a](#)).
3. Carefully (**a fan and cable are attached to the under side of the cover**) lift up the bay cover **5**.
4. Carefully disconnect the fan cable **6**, and remove the cover **5** ([Figure 5b](#)).
5. The RAM modules will be visible at point **8** on the mainboard.

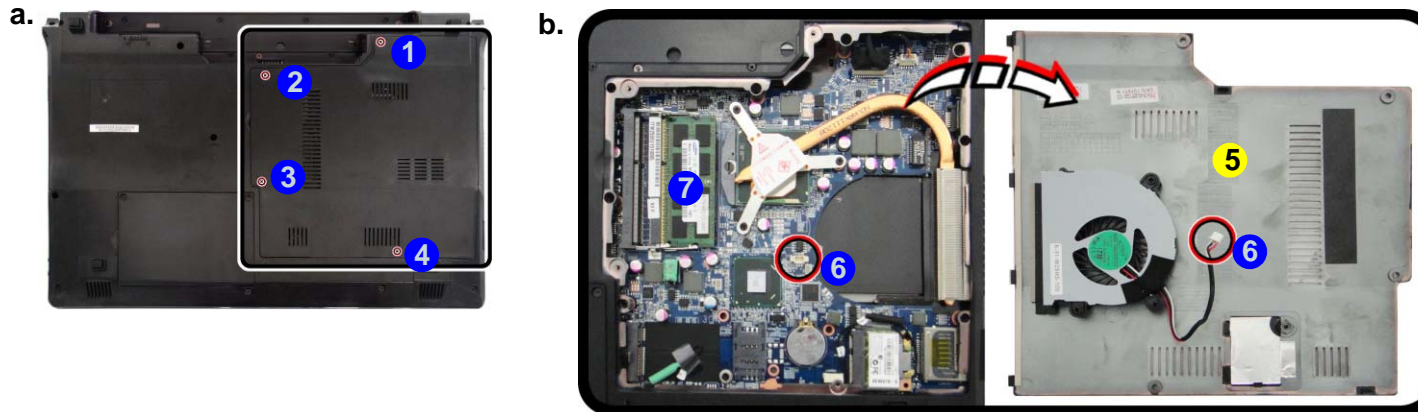


Figure 5
RAM Module Removal

- a. Remove the screws from the component bay cover.
- b. The RAM modules will be visible at point **5** on the mainboard.
- c. Pull the release latches.
- d. Remove the module.



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.



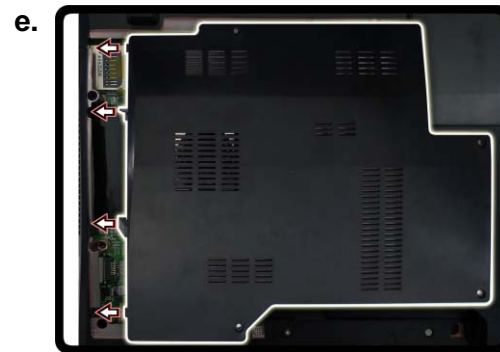
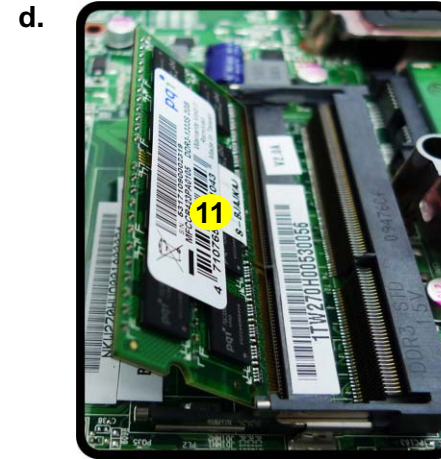
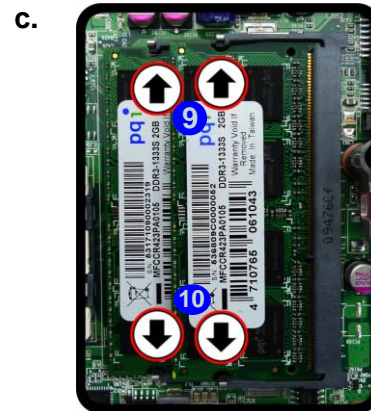
- 5 Screws

Disassembly

Figure 6 RAM Module Removal (cont'd)

- c. Pull the release latches.
- d. Remove the module.
- e. Replace bay cover.

6. Gently pull the two release latches (9 & 10) on the sides of the memory socket in the direction indicated by the arrows (Figure 6c). The RAM module 11 will pop-up (Figure 6d), and you can then remove it.
7. Pull the latches to release the second module if necessary.
8. Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
9. The module will only fit one way as defined by its pin alignment. Make sure the module is seated as far into the slot as it will go. **DO NOT FORCE IT**; it should fit without much pressure.
10. Press the module in and down towards the mainboard until the slot levers click into place to secure the module.
11. Replace the bay cover (Figure 6e) and the screws (**make sure you reconnect the fan cable before screwing down the bay cover**).
12. Restart the computer to allow the BIOS to register the new memory configuration as it starts up.



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.

11. RAM

Cover Pins

Note that this computer model has **four** cover pins. These pins need to be aligned with slots in the case to insure a proper cover fit, before screwing down the bay cover.

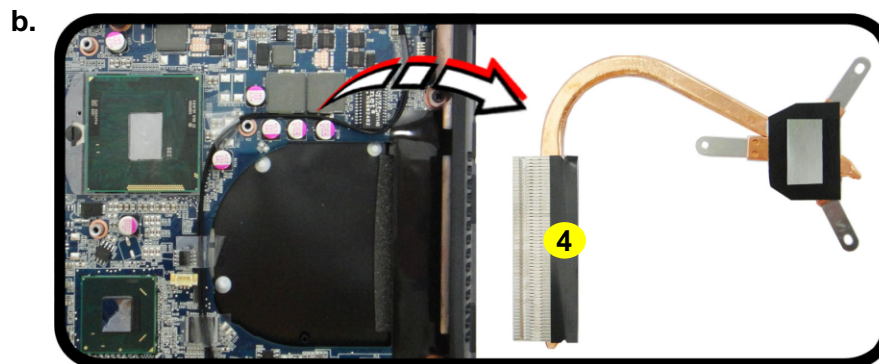
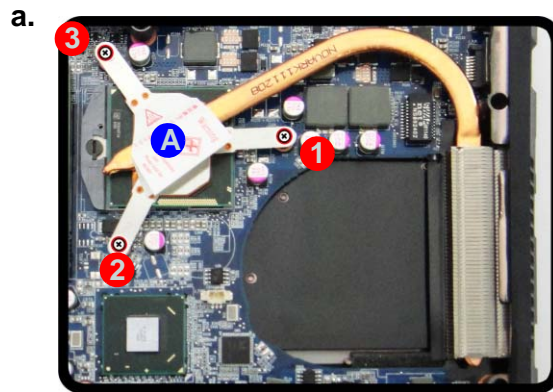
Removing and Installing a Processor


Processor Removal Procedure

1. Turn **off** the computer, turn it over, and remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 8](#)).
2. The CPU heat sink will be visible at point **A** ([Figure 7a](#)).
3. Loosen the CPU heat sink screws in the order **3**, **2** & **1** (the reverse order as indicated on the label [Figure 7a](#)).
4. Grip the heat sink tab and carefully lift the heat sink **7** up and off the computer ([Figure 7b](#)).

Figure 7
Processor Removal

- a. The CPU heat sink will be visible at point **A**. Remove the screws from the CPU heatsink.
- b. Grip the heat sink tab and carefully lift the heat sink up and off the computer.






4. Heat Sink

- 3 Screws

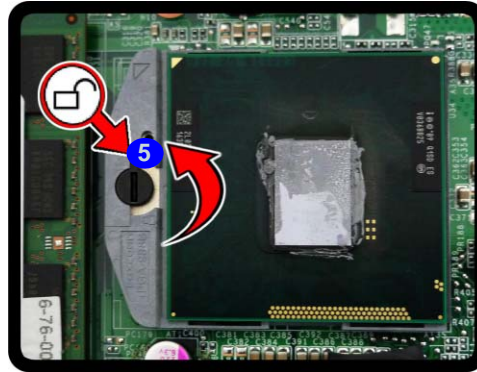
Disassembly

Figure 8 Processor Removal (cont'd)

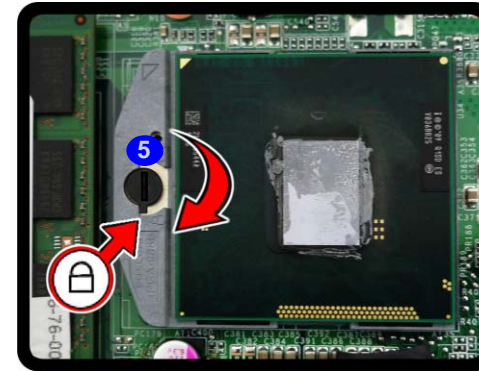
- c. Turn the release latch to unlock the CPU.
d. Lift the CPU out of the socket.

5. Turn the release latch **5** towards the unlock symbol  to release the CPU (*Figure 8d*).
6. Carefully (it may be hot) lift the CPU **6** up and out of the socket (*Figure 8e*).
7. Reverse the process to install a new CPU.
8. When re-inserting the CPU, pay careful attention to the pin alignment, it will fit only one way (DO NOT FORCE IT!).

c.

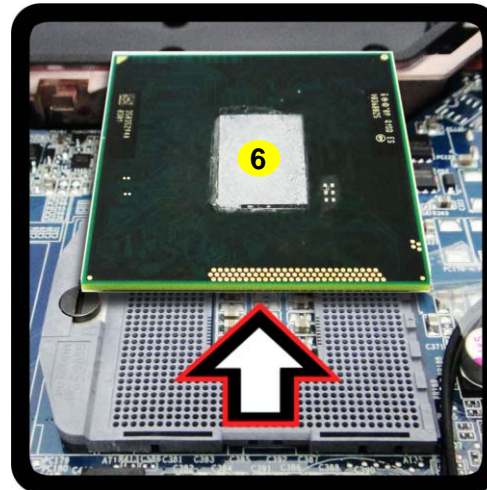


Unlock



Lock

d.




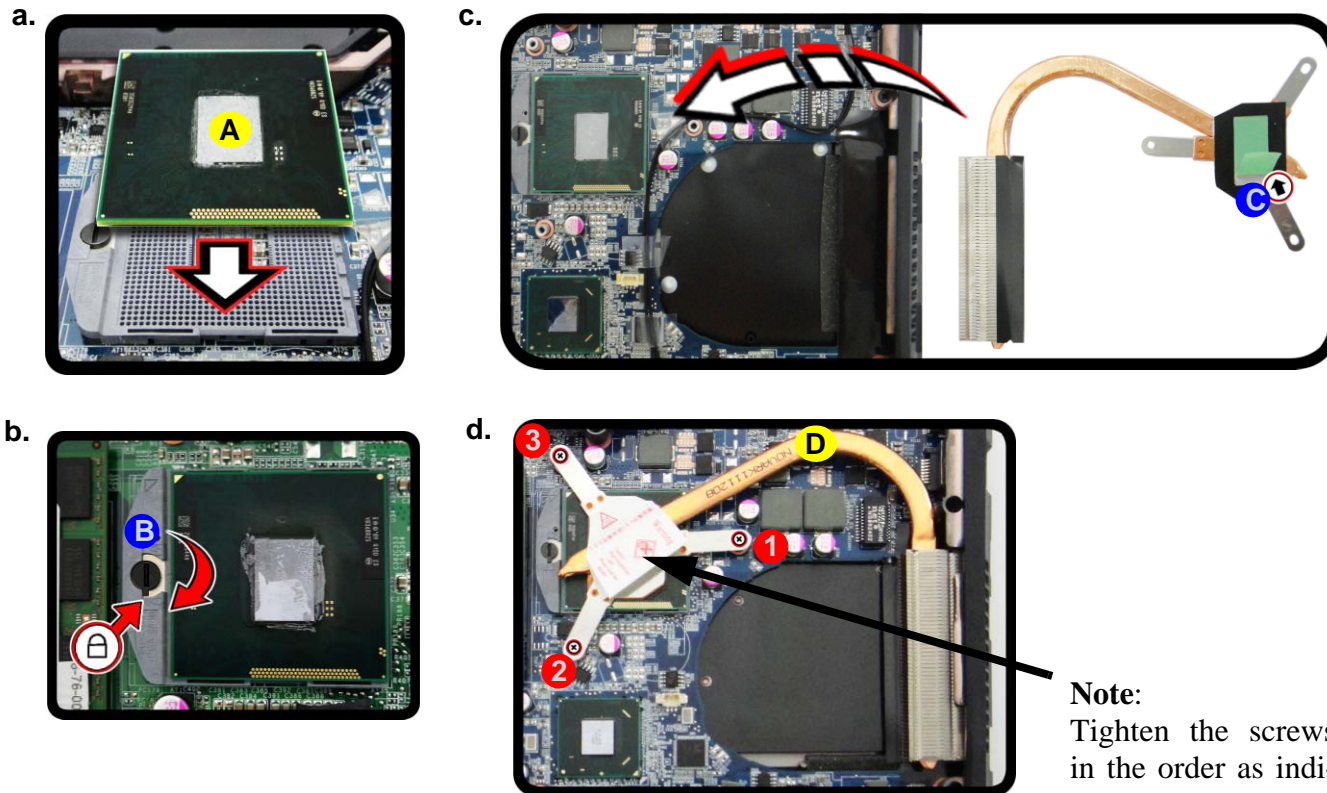
Caution

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.


6. CPU

Processor Installation Procedure

1. Insert the CPU **A** (*Figure 9a*), 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 9d*.
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 (don't forget to replace the fan cable) and tighten the screws (*page 2 - 9*).



Note:
Tighten the screws in the order as indicated on the label.



A. CPU
D. Heat Sink

- 3 Screws

Figure 9
Processor Installation

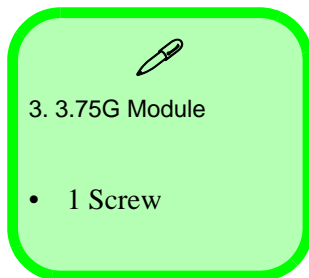
- a. Insert the CPU.
- b. Turn the release latch towards the lock symbol.
- c. Remove the sticker from the heat sink and insert the heat sink.
- d. Tighten the screws.

Disassembly

Figure 10
3G Module Removal

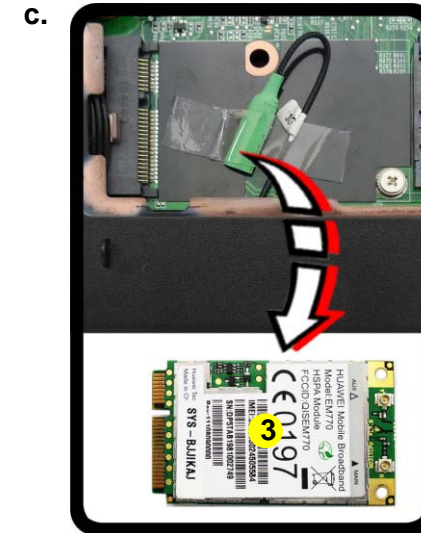
- Disconnect the cable and remove the screw.
- The module will pop-up.
- Remove the 3.75G module.

Note: Make sure you reconnect the antenna cable to socket.



Removing the 3.75G Module

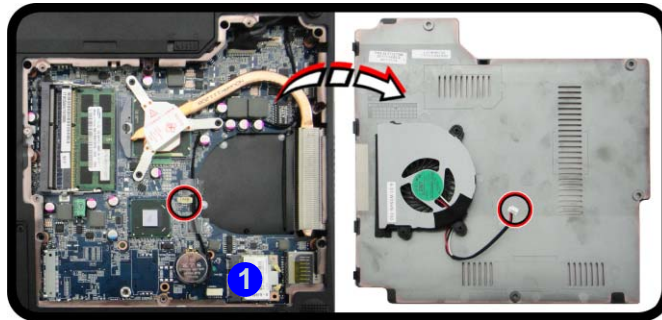
- Turn **off** the computer, turn it over, and remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 9](#)).
- Carefully disconnect the cable **1**, then remove the screw **2** from the module socket.
- The 3.75G module **4** ([Figure 10b](#)) will pop-up, and you can remove it from the computer ([Figure 10c](#)).



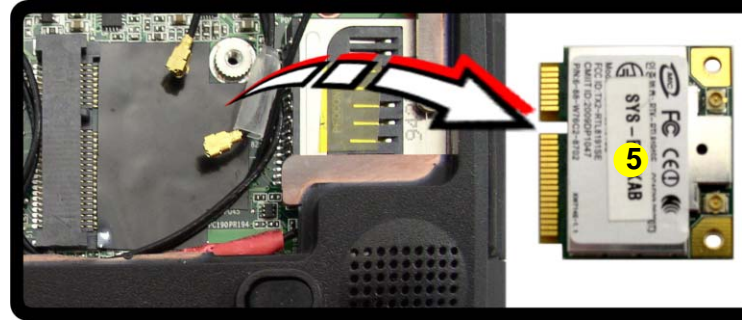
Removing the Wireless LAN Module

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 Wireless LAN module will be visible at point **1** on the mainboard ([Figure 11a](#)).
3. Carefully disconnect the cables **2** - **3**, and then remove the screw **4** ([Figure 11b](#)).
4. The Wireless LAN module **4** ([Figure 11c](#)) will pop-up, and you can remove it from the computer.

a.



c.



b.

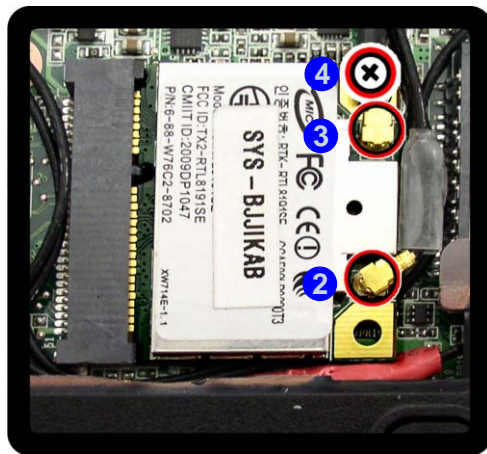
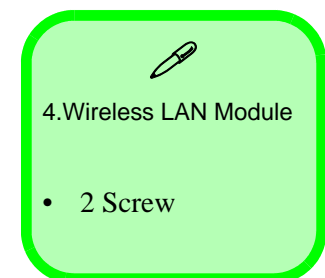


Figure 11
**Wireless LAN
Module Removal**

- a. Locate the WLAN.
- b. Disconnect the cable and remove the screw.
- c. The WLAN module will pop up.

Note: Make sure you reconnect the antenna cable to the “1 + 2” socket ([Figure 11b](#)).

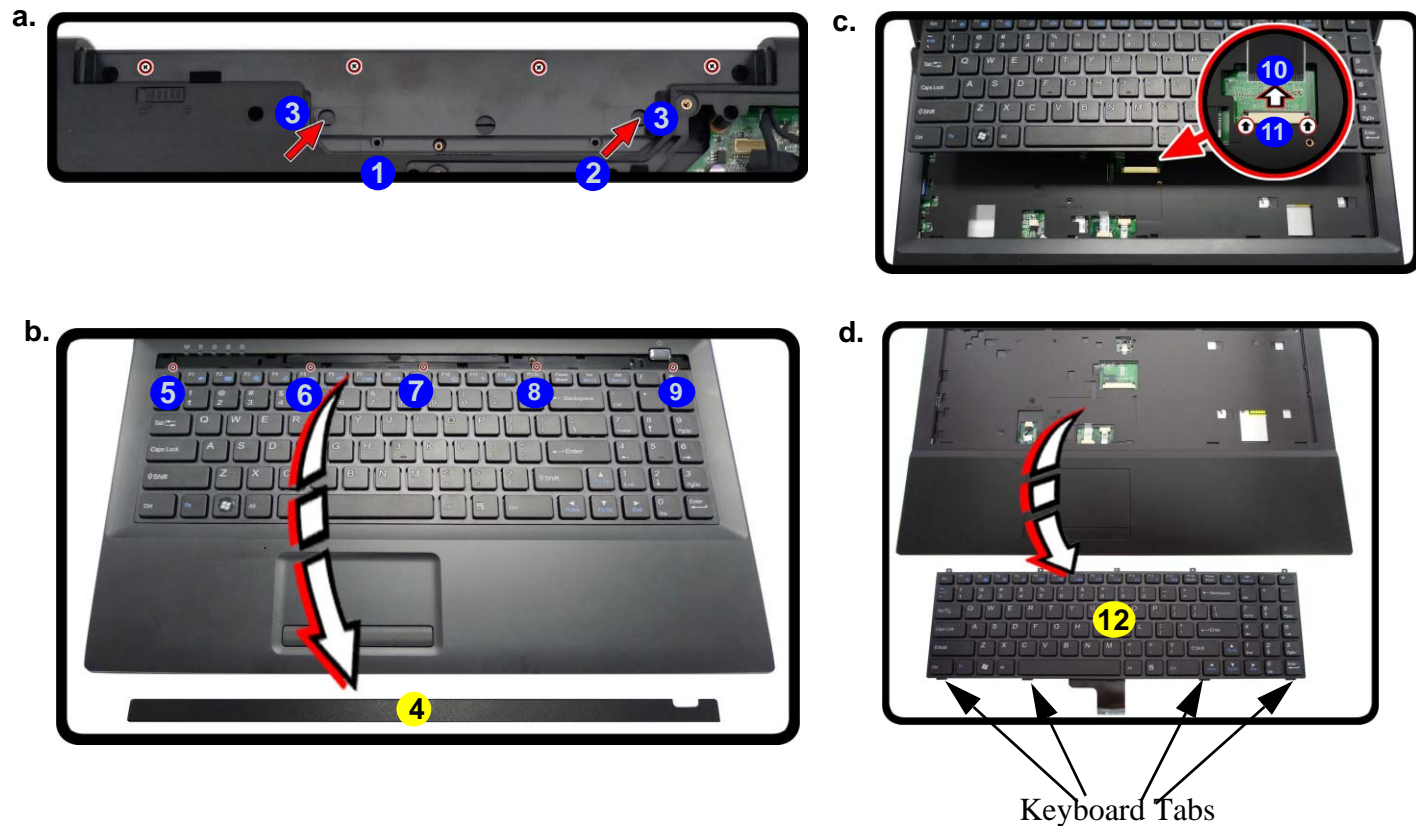



Disassembly

Figure 12

Keyboard Removal

- a. Remove screws from the bottom of the computer. Press at points 3 to un-snap the LED cover module 4.
 - b. Remove the LED cover module and screws from the keyboard.
 - c. Carefully lift the keyboard up and disconnect the keyboard ribbon cable from the locking collar socket.
 - d. Remove the keyboard.
1. Turn off the computer, and remove the battery (page 2 - 5).
 2. Remove screws 1 - 2 from the bottom of the computer. Press at points 3 to un-snap the LED cover module 4 (you may need to use the Eject Pin Tool to do this (Figure 12a)).
 3. Remove the LED cover module 4 and screws 5 - 9 from the keyboard (Figure 12b).
 4. Carefully lift the keyboard up, being careful not to bend the keyboard ribbon cable 10. Disconnect the keyboard ribbon cable 10 from the locking collar socket 11 (Figure 12c).
 5. Carefully lift up the keyboard 12 (Figure 12d) off the computer.



Re-Inserting the Keyboard

When re-inserting the keyboard firstly align the **four** keyboard tabs at the bottom (Figure 12c) at the bottom of the keyboard with the slots in the case.



4. LED Cover Module
12. Keyboard

- 7 Screws

Appendix A:Part Lists

This appendix breaks down the *W251EUQ/W253EUQ/W255EU/W258EUQ* 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.

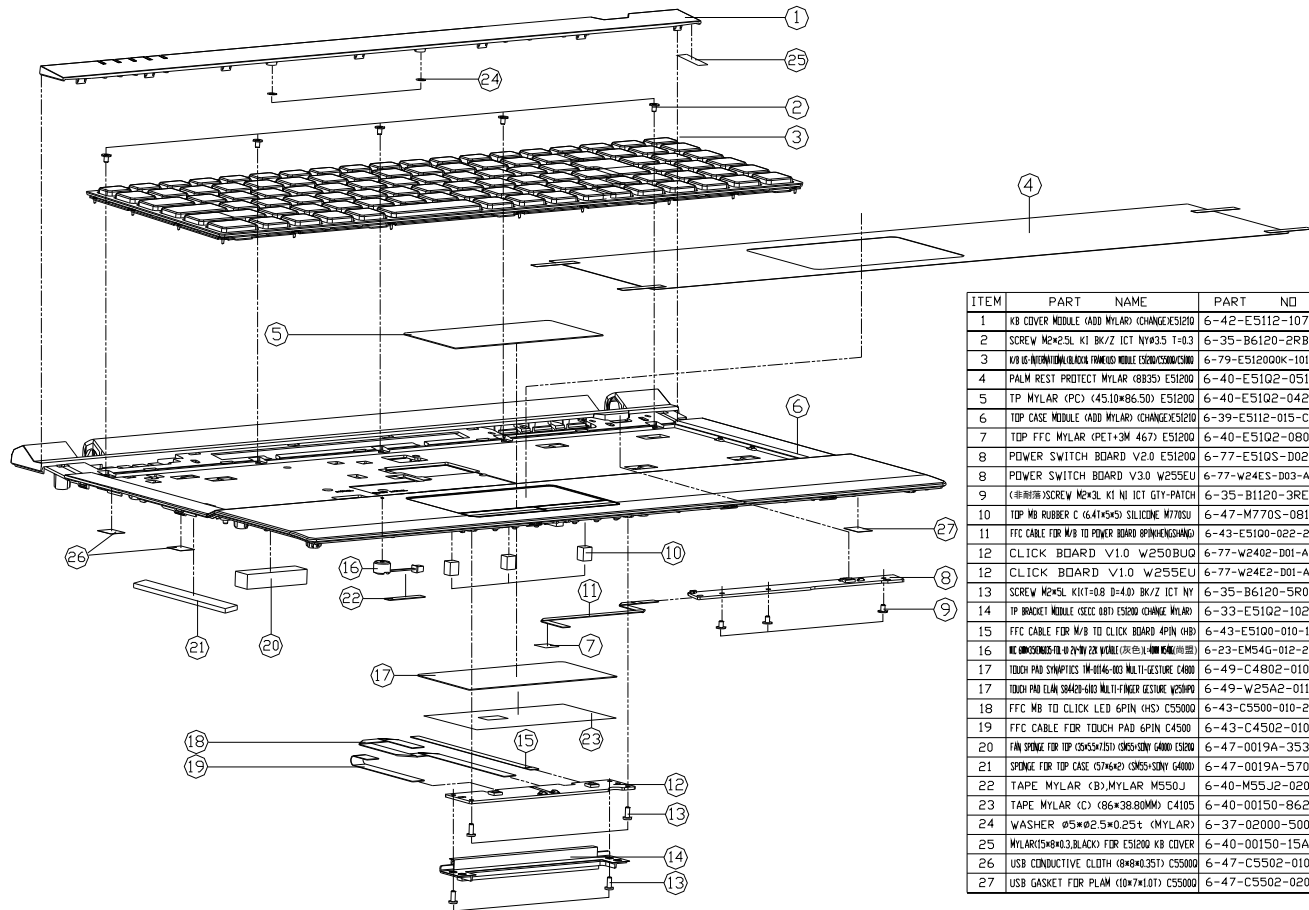
Part List Illustration Location

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

Table A - 1
**Part List Illustration
Location**

Part	W251EUQ	W255EU	W258EUQ	W253EUQ
Top	<i>page A - 3</i>	<i>page A - 4</i>	<i>page A - 5</i>	<i>page A - 6</i>
Bottom	<i>page A - 7</i>			<i>page A - 8</i>
SATA BLU RAY COMBO	<i>page A - 9</i>			<i>page A - 10</i>
DVD Dual Drive	<i>page A - 11</i>			<i>page A - 12</i>
LCD	<i>page A - 13</i>			<i>page A - 14</i>

Top (W251EUQ)

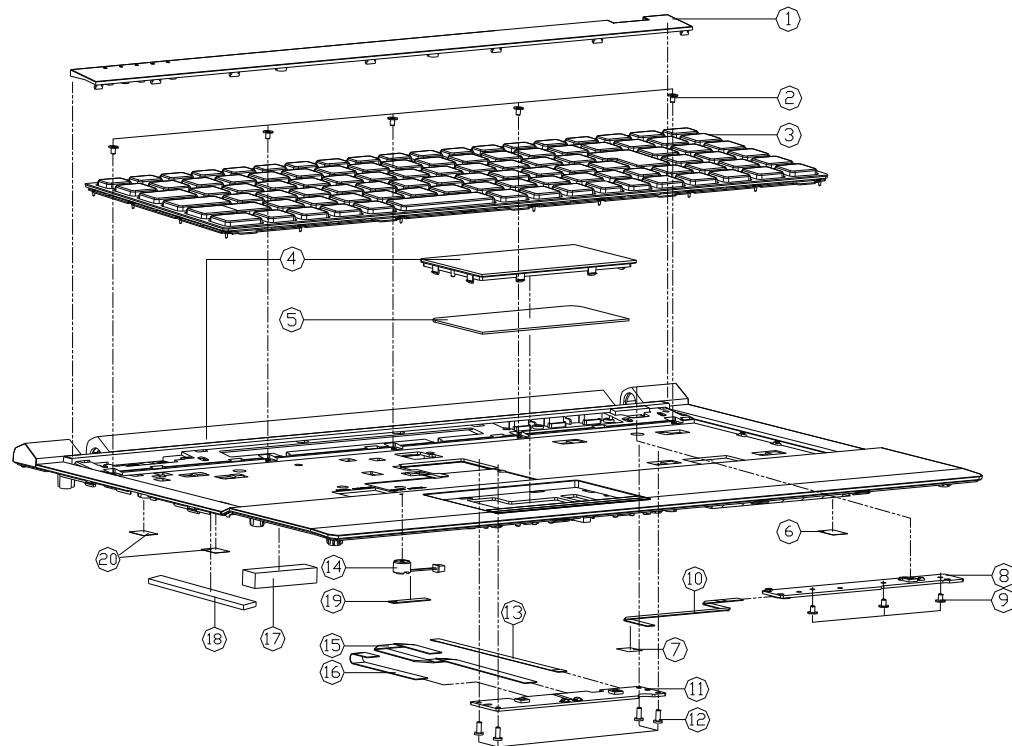


ITEM	PART NAME	PART NO	REMARK
1	KB COVER MODULE (ADD MYLAR) (CHANGE)E51210	6-42-E5112-107	
2	SCREW M2*2.5L KT BK/Z ICT NY#35 T=0.3	6-35-B6120-2RB	
3	KB US-INTERNATIONAL/BLACK FRAME/00 MODULE (CHANGE)C55000	6-79-E51200K-101	
4	PALM REST PROTECT MYLAR (8835) E51200	6-40-E5102-051	
5	TP MYLAR (PC) (45.10*86.50) E51200	6-40-E5102-042	
6	TOP CASE MODULE (ADD MYLAR) (CHANGE)E51210	6-39-E5112-015-C	
7	TOP FFC MYLAR (PET+3M 467) E51200	6-40-E5102-080	
8	POWER SWITCH BOARD V2.0 E51200	6-77-E510S-D02	FDR W251HUQ
8	POWER SWITCH BOARD V3.0 W255EU	6-77-W24ES-D03-A	FDR W251EUQ/CUQ
9	(#8#)SCREW M2*2.5L KT NI ICT G1Y-PATCH	6-35-B1120-3RE	
10	TOP MB RUBBER C (6.41*5*5) SILICONE M770SU	6-47-M770S-081	
11	FFC CABLE FOR MB TO POWER BOARD (8PIN)HGS(HAND)	6-43-E5100-022-2	
12	CLICK BOARD V1.0 W250BUQ	6-77-W2402-D01-A	FDR W251HUQ
12	CLICK BOARD V1.0 W255EU	6-77-W2402-D01-A	FDR W251EUQ/CUQ
13	SCREW M2*5L K1K1-08 D=4.0 BK/Z ICT NY	6-35-B6120-5R0	
14	TP BRACKET MODULE (SECC 081) E51200 (CHANGE MYLAR)	6-33-E5102-102	
15	FFC CABLE FOR MB TO CLICK BOARD (4PIN) (HS)	6-43-E5100-010-1	
16	MC OMS5055-FIL-40 2Y-NY 22R VOMEL (OR ED) (1MM W/L) (0.010)	6-23-EMS4G-012-2	
17	TOUCH PAD SYNAPTICS TM-0146-003 MULTI-GESTURE C4800	6-49-C4802-010	FDR W251HUQ/EUQ/VELO
17	TOUCH PAD ELAN S9429-6103 MULTI-FINGER GESTURE W250AP0	6-49-W25A2-011	FDR W251CUQ
18	FFC MB TO CLICK LED (6PIN) (HS) C55000	6-43-C5500-010-2	
19	FFC CABLE FOR TOUCH PAD (6PIN) C4500	6-43-C4502-010	
20	FAN SPRING FOR TOP (C5455*7151) (C855+SONY) G4000	6-47-0019A-353	
21	SPRING FOR TOP CASE (C576*42) (C855+SONY) G4000	6-47-0019A-570	
22	TAPE MYLAR (CB)MYLAR M550J	6-40-M55J2-020	
23	TAPE MYLAR (C) (86*38.80MM) C4105	6-40-00150-862	ONLY FOR W251EUQ-C
24	WASHER Ø5*Ø2.5*0.25± (MYLAR)	6-37-D2000-500	
25	MYLAR15*40*3(BLACK) FOR E51200 KB COVER	6-40-00150-15A	
26	USB CONDUCTIVE CLOTH (8*8*0.351) C55000	6-47-C5502-010	
27	USB GASKET FDR PLAM (10*7*1.01) C55000	6-47-C5502-020	

Figure A - 1
Top (W251EUQ)

Top (W255EU)

Figure A - 2
Top (W255EU)



ITEM	PART NAME	PART NO	REMARK
1	KB COVER MODULE E5125	6-42-E5158-101	
2	SCREW M2x5L KI BK/Z ICT NY#35 T=03	6-35-B6120-2RB	
3	KEYBOARD KEYBOARD FRAME MODULE C550000000	6-79-E512000K-101	
4	TOP CASE MODULE E5125	6-39-E5152-112	
4	TOP CASE MODULE E5125-C	6-39-E5152-112-C	
5	TOUCH PAD SYMPTICS TM-0116-003 MULTI-GESTURE C480	6-49-C4802-010	FOR W255HU/EU/EL
5	TOUCH PAD CLM SB423-003 MULTI-FINGER GESTURE W255PU	6-49-W25A2-011	FOR W255CU
6	USB GASKET FOR PLAM (10x7x1.0T) C55000	6-47-C5502-020	
7	TOP FFC MYLAR (PET+3M 467) E51200	6-40-E5102-080	
8	POWER SWITCH BOARD V2.0 E51200	6-77-E510S-D02	FOR W255HU
8	POWER SWITCH BOARD V3.0 W255EU	6-77-W24ES-D03-A	FOR W255EU/CU/EL
9	CONDUCTIVE SCREW M2x5L KI NI ICT G1Y-PATCH	6-35-B1120-3RE	
10	FFC CABLE FOR W/B TO POWER BOARD 8PIN(HS)W/B	6-43-E5100-022-2	
11	CLICK BOARD V1.0 W250BUQ	6-77-W2402-D01-A	FOR W255HU
11	CLICK BOARD V1.0 W255EU	6-77-W24E2-D01-A	FOR W255EU/CU/EL
12	SCREW M2x5L K1KT-08 D=4.0 BK/Z ICT NY	6-35-B6120-5R0	
13	FFC CABLE FOR W/B TO CLICK BOARD 4PIN (4B)	6-43-E5100-010-1	
14	LED CONDUCTIVE FILM 27x19x0.22 VIOLET (COLOR) 1.0mm 1500/10000	6-23-EM54G-012-2	
15	FFC MB TO CLICK LED 6PIN (HS) C55000	6-43-C5500-010-2	
16	FFC CABLE FOR TOUCH PAD 6PIN C4500	6-43-C4502-010	
17	FM SPONGE FOR TOP CASE (57x42) (M55) 50% G4000 C5200	6-47-0019A-353	
18	SPONGE FOR TOP CASE (57x42) (M55) 50% G4000	6-47-0019A-570	
19	TAPE MYLAR (B) MYLAR M550J	6-40-M55J2-020	ONLY FOR E51250-C
20	USB CONDUCTIVE CLOTH (8x8x0.351) C55000	6-47-C5502-010	

Top (W258EUQ)

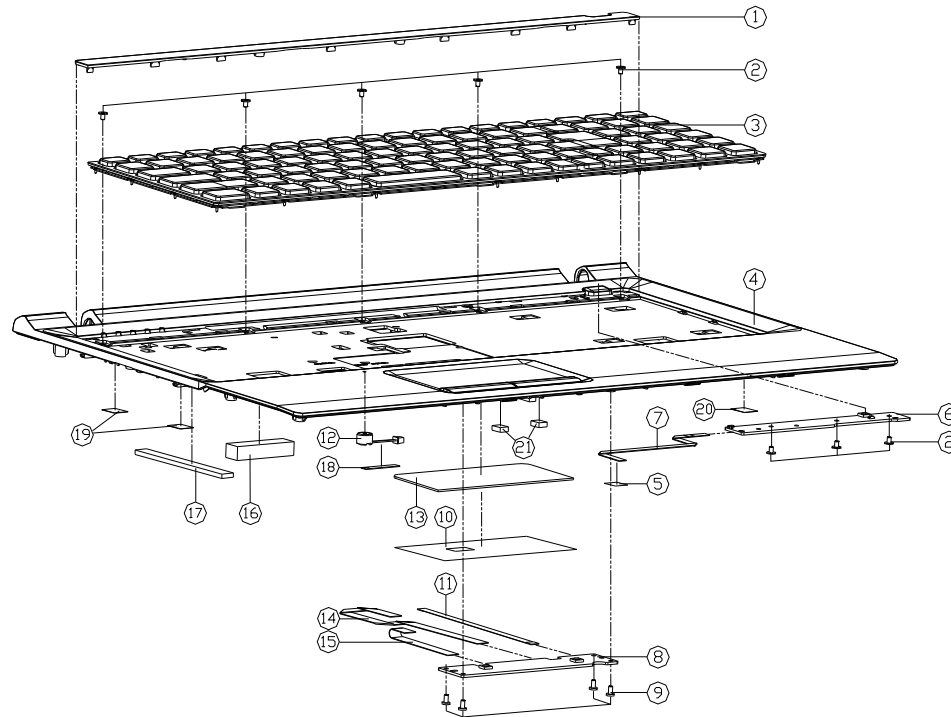


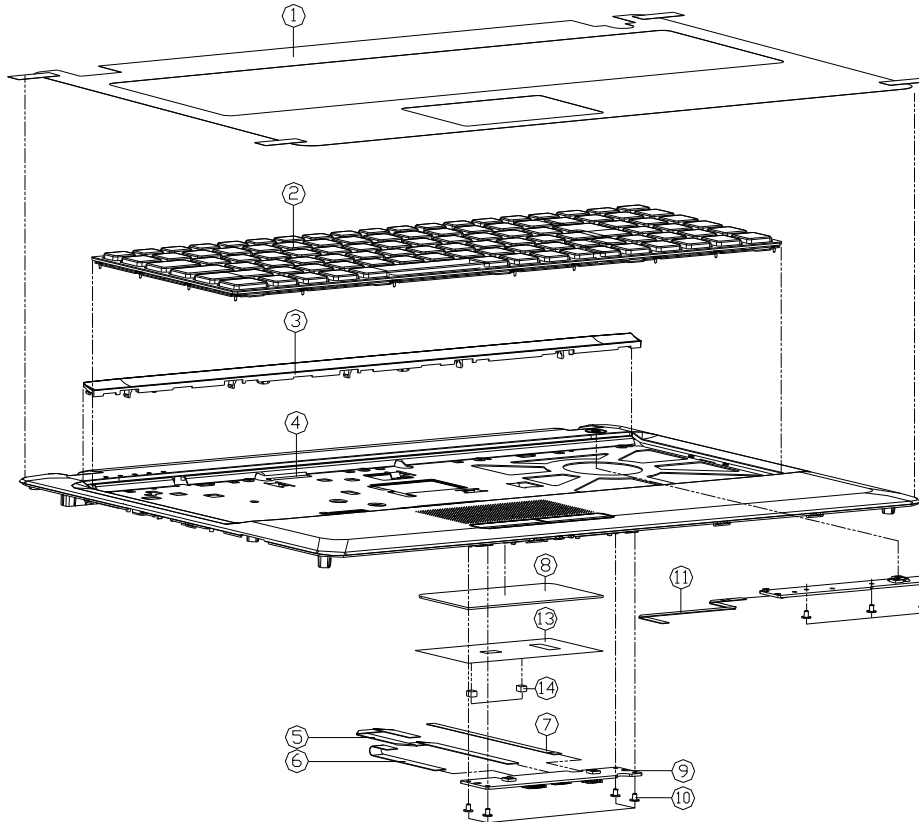
Figure A - 1
Top (W258EUQ)

ITEM	PART NAME	PART NO	REMARK
1	KB COVER PC+ABS(CN614D) E51280ND PAINTING	6-42-E5182-012	
2	(#非附)SCREW M2x3L K1 NI ICT G1Y-PATCH	6-35-B1120-3RE	
3	K/B USA(BLACK)X8 FRAME(CUS) MODULE E51280	6-79-E51200K-010	
4	TOP CASE MODULE (TP XNDB ND PAINTING) E51280	6-39-E5182-015	
4	TOP CASE MODULE (ES200-C CHANGE SPONGE)TP XNDB ND PAINTING	6-39-E5182-012-C	
5	TOP FFC MYLAR (PET+3M 467) E51280	6-40-E5102-080	
6	POWER SWITCH BOARD V3.0 W258EUQ-C	6-77-W24ES-D03-B	
7	FFC CABLE FOR W/B TO POWER BOARD 8PIN(ENGLISH)	6-43-E5100-022-2	
8	CLICK BOARD V1.0 W255EU	6-77-W24E2-D01-A	
9	(#非附)SCREW M2x1.8Z ICT G1Y-PATCH (T-08 D-4)	6-35-C6120-4RB	
10	TAPE MYLAR (C) (86.10x38.80MM) C4105	6-40-00150-860	
11	FFC CABLE FOR W/B TO CLICK BOARD 4PIN (4H)	6-43-E5100-010-1	
12	UL 94V-0 CONDUCTIVE FILM 27-29 230 VOLAGE (灰色) (4MM厚) (400MM)	6-23-EM54G-012-2	
13	TOUCH PAD SYMPLECTIC IN-0114C-003 MULTI-GESTURE C4800	6-49-C4802-010	
14	FFC W/B TO CLICK LED 6PIN (4S) C55000	6-43-C5500-010-2	
15	FFC CABLE FOR TOUCH PAD 6PIN C4500	6-43-C4502-010	
16	FM SPONGE FOR TOP (C565x755) (C565x50MM 6400) E5280	6-47-0019A-353	
17	SPONGE FOR TOP CASE (57x6x2) (C565x50MM 6400)	6-47-0019A-570	
18	TAPE MYLAR (B) MYLAR M55J2	6-40-M55J2-020	
19	USB CONDUCTIVE CLOTH (8x8x0.35T) C55000	6-47-C5502-010	
20	USB GASKET FOR PLAM (10x7x1.0T) C55000	6-47-C5502-020	
21	SPONGE 4x4x4 FOAM FOR POWER LED W860CU	6-47-W860S-020	

A.Part Lists

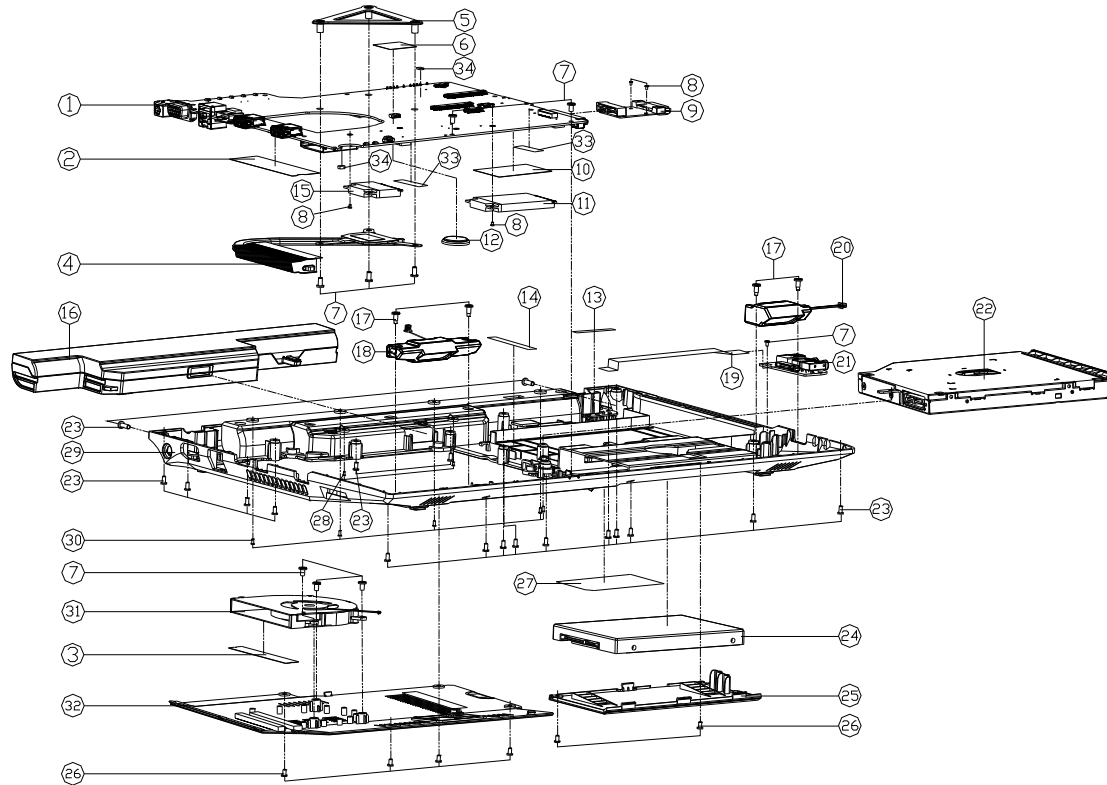
Top (W253EUQ)

Figure A - 1
Top (W253EUQ)



ITEM	PART NAME	PART NO	REMARK
1	C CASE PROTECT MYLARMYLAR 011) W253PQ	6-40-W2538-011	REMARK
2	K/B US&BLACKB FRAMES) MODULE W253EUQ	6-79-W253EUQK-010	
3	CENTER COVER SABC C723P-70IDE W253PQ	6-42-W2532-061	
4	TDP CASE MODULE W253HPQ	6-39-W2532-011	
4	TDP CASE MODULE W253HPQ-C	6-39-W2532-011-C	
5	FFC CABL M8 TO CLICK LED 6PIN 0HS C5500Q	6-43-C5500-010-2	
6	FFC CABL FDR TOUCH PAD 6PIN C4500	6-43-C4502-010	
7	FFC CABL FDR M8 TO CLICK BOARD 4PIN 0HS	6-43-E5100-010-1	
8	TOUCH PAD SYNTPICS IN-4106-003 MULTI-GEASURE C480	6-49-C4802-010	
9	CLICK BOARD V1.0 W253EUQ	6-77-W24E2-D01-A	
10	SCREW M2*3L K1 NI ICT NY (00=4.5,01=0.4)	6-35-B1120-3RE	
11	FFC CABL FDR M8 TO POWER BOARD 8PINXENGSHANG	6-43-E5100-022-2	
12	POWER SWITCH BOARD V3.0 W253EUQ	6-77-W24E3-D03-C	
13	TP MYLARK86*42.5*0.25T) W253HPQ	6-40-W2532-030	
14	TP RUBBER (SILICON RUBER BK 5*5*62T) W253PQ	6-47-W2532-020	

Bottom (W251EUQ/W255EU/W258EUQ)



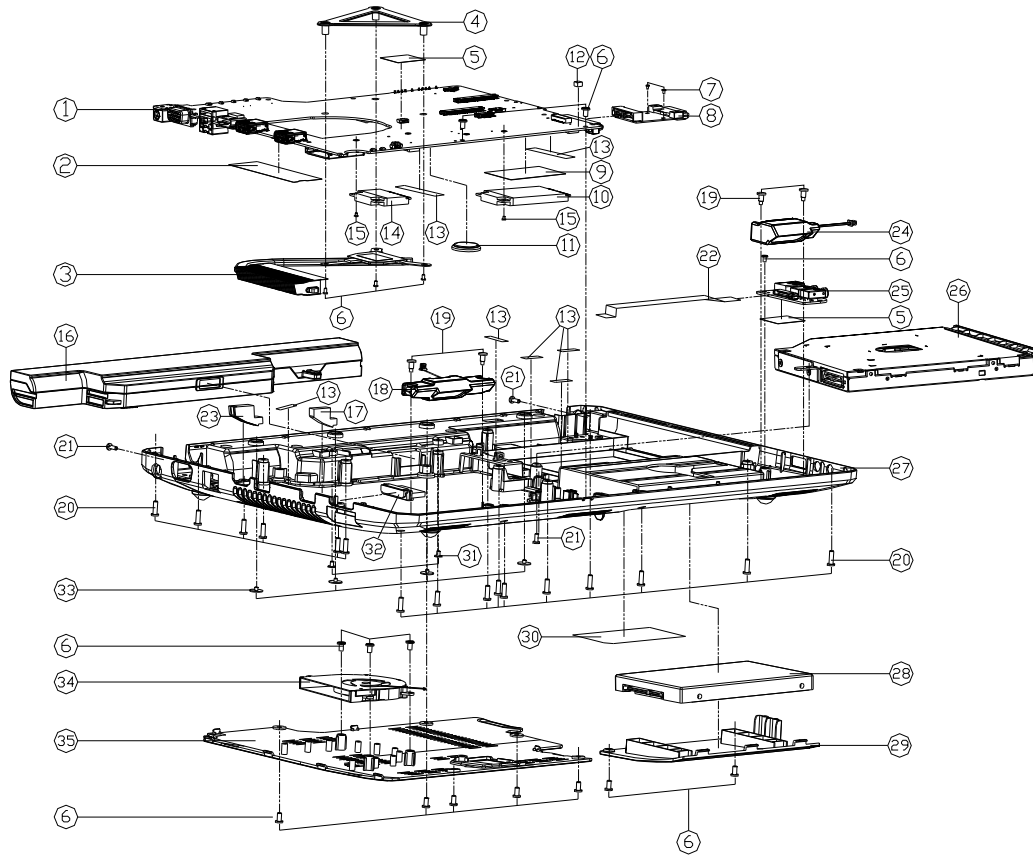
ITEM	PART	NAME	PART	NO	REMARK
1	MAIN BOARD	V33 W/36W/0 1PB W255U	6-77-W25U0-D03		
1	MAIN BOARD	V33 W/36W/0 1PB W255U	6-77-W25U0-D03-1		
1	MAIN BOARD	V33 W/36W/0 1PB W255U	6-77-W25U0-D03-4		
1	MAIN BOARD	V33 W/36W/0 1PB W255U	6-77-W25U0-D03-2		
1	MAIN BOARD	V33 W/36W/0 1PB W255U	6-77-W25U0-D03-3		
1	MAIN BOARD	V33 W/36W/0 1PB W255U	6-77-W25U0-D03-5		
2	MYLAR PET FOR MAIN BOARD COVER	UNP/00	6-40-W2405-011		
3	AIRDUCT	MYLAR DFR117 W2404U	6-40-W2448-011		
4	CPU HEATSINK	MODULE W2404U	6-31-W244N-101		
5	GPU SUPPORTER FOR MAIN BOARD	020 W250M	6-33-W1503-011		
6	MAIN BOARD MAIN BRACKET (A)	FOR MAIN BOARD	6-40-C4503-030		
7	SCREW	M2.5x5L K1 BK/Z ICT NY	6-35-B6125-SRA		
8	SCREW	M3x4L K1 BK/Z ICT NY	6-35-B6120-3RD		
9	ODD BRIDGE BOARD	V1.0 W255EU	6-77-W25UN-D01		
10	MYLAR	40x30x11 (P)00 + 3H 40x 30x11	6-40-M7351-020	ONLY FOR W250	
11	PCBA	DRIVER 1201 100A FULL BRIDGE 021	6-88-W244N-240		CPPT (DN)
12	BATTERY	3V 20MA BBSRCR020P (K)S1	6-23-6A2B2-030		
13	TAPE	MYLAR (B)MYLAR M550J	6-40-M55J2-020		
14	TAPE	MYLAR (C)MYLAR M550J	6-40-M55J2-030		
15	MAIN BOARD MAIN BRACKET (A) FOR MAIN BOARD		6-88-C555F-S301		CPPT (DN)
15	MAIN BOARD MAIN BRACKET (A) FOR MAIN BOARD		6-88-W1102-7000		CPPT (DN)
15	MAIN BOARD MAIN BRACKET (A) FOR MAIN BOARD		6-88-W110F-4200		CPPT (DN)
15	MAIN BOARD MAIN BRACKET (A) FOR MAIN BOARD		6-88-W110F-4200		CPPT (DN)
15	MAIN BOARD MAIN BRACKET (A) FOR MAIN BOARD		6-88-C555F-7001		CPPT (DN)
15	MAIN BOARD MAIN BRACKET (A) FOR MAIN BOARD		6-88-W1102-9400		CPPT (DN)
15	MAIN BOARD MAIN BRACKET (A) FOR MAIN BOARD		6-88-W345F-9400		CPPT (DN)
15	MAIN BOARD MAIN BRACKET (A) FOR MAIN BOARD		6-88-W2542-9400		CPPT (DN)
15	MAIN BOARD MAIN BRACKET (A) FOR MAIN BOARD		6-88-W2542-7000		CPPT (DN)
15	MAIN BOARD MAIN BRACKET (A) FOR MAIN BOARD		6-88-W245F-8700		CPPT (DN)
16	MPU	1.1U 100MHz/100KB 32P 300KB 100KB/100KB	6-87-E42E5-407A		CPPT (DN)
16	MPU	1.1U 100MHz/100KB 32P 300KB 100KB/100KB	6-87-E42E5-404B		CPPT (DN)
16	MPU	1.1U 100MHz/100KB 32P 300KB 100KB/100KB	6-87-W24E5-4W4		CPPT (DN)
17	SCREW	M2x4L NI ICT NY FOR SPEAKER	6-35-21120-6R2		
18	SPEAKER	0.5W 8 OHM 100HZ 30V 100HZ 30V	6-23-5E510-011		
19	PC CABLE	SP W3 TO AUDIO BOARD W2550W0	6-43-W2550-01-1		
20	SPEAKER	0.5W 8 OHM 100HZ 30V 100HZ 30V	6-23-5E510-021		
21	AUDIO BOARD	V4.0 W244EU	6-77-W24E4B-D04		
22	SATA DVD SUPER MULTI ASSY	OPT (DN)	6-79-W250C00-010		
22	SATA BLU RAY COMBO ASSY	W255U OPT (DN)	6-79-W250C00-010		
22	SATA BLU RAY COMBO ASSY	W255U OPT (DN)	6-79-W250C00-010		
22	W/D ODD ASSY	E51200	6-79-E51200-000		
23	SCREW	M2.5x4L K1 BK/Z NY ICT	6-35-B6125-0R0		
24	W/D HDD ASSY	C4800	6-79-C480000-000		FOR W258EUQ
24	W/HDD ASSY	E51200	6-79-E512000-000		FOR W258EUQ
25	HDD COVER	PC/ABS E51200	6-42-E510J-011		
26	SCREW	M2.5x4L K1H165 D45I BK/Z ICT	6-35-B6125-4R0		
27	PROJECT LABEL	FOR W2550-COMBO (D)0 W255U	6-45-W255000-01-C		
27	PROJECT LABEL	FOR W2550-COMBO (D)0 W255U	6-45-W255000-01-C		
27	PROJECT LABEL	FOR W2550-COMBO (D)0 W255U	6-45-W255000-01-C		
28	SCREW	M2.5x4L K1 BK/Z NY ICT	6-35-C8120-3R0		
29	BOTTOM CASE	MODULE E51200-COMBO	6-39-E5103-013		
29	BOTTOM CASE	MODULE E51200-COMBO	6-39-E5103-013-C		
30	SCREW	M2.5x4L K1H165 D45I BK/Z ICT NY	6-35-B6120-SR0		
31	FAN	MODULE W251H1UD	6-31-W251HS-100		
32	CPU COVER	MODULE V33 E51200-COMBO	6-42-E5103-103		
32	CPU COVER	MODULE V33 E51200-COMBO	6-42-E5103-203		
33	TAPE	MYLAR TRANSPARENT CONDUCTIVE FRBM	6-40-P1803-020		
34	GASKET	GASKET FOR CPU COVER CASE - C	6-47-0019A-609		ONLY FOR W258EUQ
35	GASKET	GASKET FOR TV CMA TOP CASE MENTU	6-47-00190-102		ONLY FOR W258EUQ

Figure A - 2
Bottom
(W251EUQ/
W255EU/
W258EUQ)

A.Part Lists

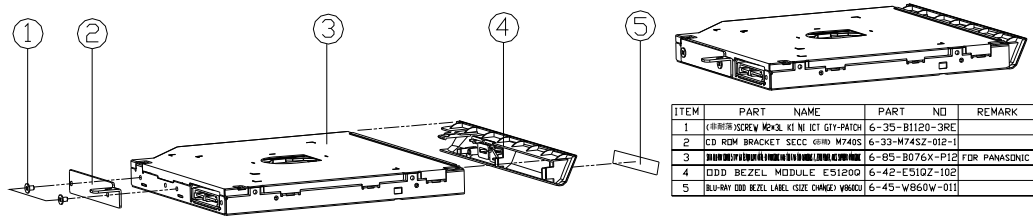
Bottom (W253EUQ)

Figure A - 3
Bottom
(W253EUQ)



ITEM	PART NAME	PART NO	REMARK
1	MAIN BOARD V30 (w/36w/d) TPO W253EUQ	6-77-W23U0-D03	
1	MAIN BOARD V30 (w/36w/d) TPO W253EUQ	6-77-W23U0-D03-1	
1	MAIN BOARD V30 (w/36w/d) TPO W253EUQ	6-77-W23U0-D03-2	
1	MAIN BOARD V30 (w/36w/d) TPO W253EUQ	6-77-W23U0-D03-3	
1	MAIN BOARD V30 (w/36w/d) TPO W253EUQ	6-77-W23U0-D03-4	
1	MAIN BOARD V30 (w/36w/d) TPO W253EUQ	6-77-W23U0-D03-5	
2	HEAT SINK FOR CPU W/ FIN COUPLER LENS W240HJ	6-40-W240S-011	
3	CPU HEATSINK MODULE W240HJ	6-31-W24HN-101	
4	CPU SUPPORTER FOR HEAT RIVER SECC W250MM	6-33-W150S-011	
5	AUDIO BOARD W/AL 2CH/2IN/2OUT/2IN/2OUT/2IN/2OUT	6-40-C450S-030	
6	SCREW M2.5x5L KI BK/Z ICT NY	6-35-B612S-5RA	
7	SCREW M2xL KI BK/Z ICT NY (D00+45.01+04)	6-35-B6120-3RD	
8	DDD BRIDGE BOARD V1.0 W253EUQ	6-77-W25UN-001	
9	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-40-W7351-020	
10	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-88-W24HW-2410	(OPTION)
11	BATTERY 2V 250MA 800R2032S (K15)	6-23-6A2BP-030	
12	TP RUBBER GELCOX RUBER W/ 50x40x20 W253EUQ	6-47-W253E-020	
13	TPAC W/AL TRANSPARENT COUPLER W/ 50x40x20	6-40-PT803-020	
14	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-88-W25HE-9400	(OPTION)
14	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-88-W25HE-7000	(OPTION)
14	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-88-W345F-8700	(OPTION)
14	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-88-W345F-9400	(OPTION)
14	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-88-P17EF-4200	(OPTION)
14	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-88-W10F-4200	(OPTION)
14	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-88-W10E-7000	(OPTION)
14	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-88-W10E-9400	(OPTION)
14	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-88-C555F-7001	(OPTION)
14	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-88-C555F-5301	(OPTION)
15	SCREW M2xL KI BK/Z ICT NY (D00+45.01+04)	6-35-B1120-3RE	
16	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-87-W24ES-4W4	
16	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-87-C480S-4G4B	
16	W/AL 40x30x0.1T (R80) * 3M-467 W25T	6-87-C412S-4D7A	
17	RUBBER-2 FOR BOTTOM CASE W253EUQ	6-47-W2503-030	
18	SPK/AL KI BK/Z ICT NY FOR SPEAKER W253EUQ	6-23-5E510-011	
19	SCREW M2x5L NI BK/Z NY FOR SPEAKER	6-35-Z1110-6R2	
20	SCREW M2.5xBL KI BK/Z NY ICT	6-35-B612S-8R0	
21	SCREW M2xL KI BK/Z D+40 BK/Z ICT NY	6-35-B6120-5R0	
22	TPC CABLE TAP W/AL TO AUDIO BOARD W253EUQ	6-47-W2500-011-1	
23	RUBBER FOR BOTTOM CASE W253EUQ	6-47-W2503-020	
24	SPK/AL KI BK/Z ICT NY FOR SPEAKER W253EUQ	6-23-5E510-021	
25	AUDIO BOARD V4.0 W244EUQ	6-77-W24EB-D04	
26	SATA DVD SUPER MULTI ASSY (OPTION)	6-79-W253EUQ-010	
26	SATA BLU-RAY COMBO ASSY (OPTION)	6-79-W253EUQ-010	
26	SATA DVD SUPER MULTI ASSY (OPTION)	6-79-W253EUQ-010	
26	W/D ODD ASSY W253HPQ	6-79-W253HPQ-000	
27	BOTTOM CASE MODULE(TEXTURE) W253EUQ	6-39-W2533-011	
28	W/D HDD ASSY C4800	6-79-C48000J-010	FOR W253EUQ
28	W/D HDD ASSY E51200	6-79-E512000J-020	FOR W253EUQ/ELQ
28	W/D HDD ASSY E51200	6-79-E512000J-010	FOR W253EUQ
29	HDD COVER GAMB (TEXTURE) W253HPQ	6-42-W2533-011	
30	PRODUCT LABEL FOR W253EUQ/ELQ	6-45-W253EUQ-010	
30	PRODUCT LABEL FOR W253EUQ/ELQ	6-45-W253EUQ-010	
31	SCREW M2xL KI BK/Z ICT NY (D00+45.01+04)	6-35-C6120-3R0	
32	ESATA RUBBER SILICON RUBBER W253EUQ	6-47-W2503-010	
33	SCREW M2xL KI BK/Z ICT NY (D00+45.01+04)	6-35-B6120-2RE	
34	FAN MODULE W253EUQ	6-31-W25HS-100	
35	CPU COVER MODULE(TEXTURE) W253EUQ	6-42-W2503-101	

SATA BLU RAY COMBO (W251EUQ/W255EU/W258EUQ)

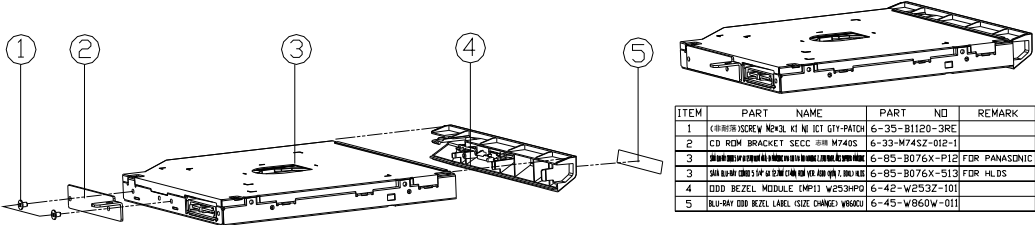


ITEM	PART NAME	PART NO.	REMARK
1	CD ROM BRACKET SECC	6-35-B1120-3RE	
2	CD ROM BRACKET SECC	6-33-M745Z-012-1	
3	DDD BEZEL MODULE	6-85-B076X-P12	FOR PANASONIC
4	DDD BEZEL MODULE	6-42-E510Z-102	
5	BLU-RAY DDD BEZEL LABEL (SIZE CHANGE)	6-45-W860W-011	

Figure A - 4
SATA BLU RAY
COMBO
(W251EUQ/
W255EU/
W258EUQ)

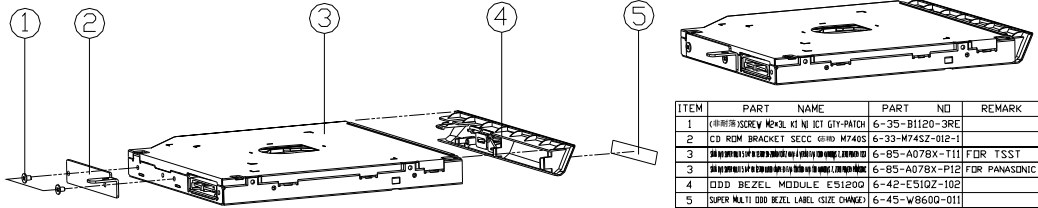
SATA BLU RAY COMBO (W253EUQ)

Figure A - 5
SATA BLU RAY
COMBO
(W253EUQ)



ITEM	PART NAME	PART NO	REMARK
1	CRIBBIT SCREW M2X4.5 NI INI KIT QTY-PATCH	6-35-B1120-3RE	
2	CD ROM BRACKET SECC SHI M7405	6-33-W745Z-01E-1	
3	DRIVE HOUSING OF W253EUQ FOR BLU RAY	6-85-B076X-P12	FOR PANASONIC
3	DRIVE HOUSING OF W253EUQ FOR DVD RW	6-85-B076X-S13	FOR HLDS
4	ODD BEZEL MODULE (MP1) W253HPQ	6-42-W253Z-101	
5	BLU-RAY ODD BEZEL LABEL (SIZE CHANGED) W860U	6-45-W860W-011	

DVD DUAL (W251EUQ/W253EUQ/W255EU/W258EUQ)

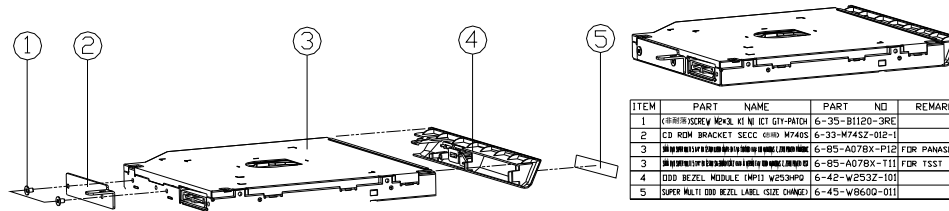


ITEM	PART NAME	PART NO.	REMARK
1	CD ROM BRACKET SECC (FIT G1Y-PATCH)	6-35-B1120-3RE	
2	CD ROM BRACKET SECC (FIT M740S)	6-33-M745Z-0L2-1	
3	DVD BEZEL MODULE (FIT M740S)	6-85-A078X-T11	FOR TSST
4	DVD BEZEL MODULE (FIT M740S)	6-85-A078X-P12	FOR PANASONIC
5	SUPER MULTI DVD BEZEL LABEL (SIZE CHANGE)	6-45-W8600-011	

Figure A - 6
DVD DUAL
(W251EUQ/
W253EUQ/
W255EU/
W258EUQ)

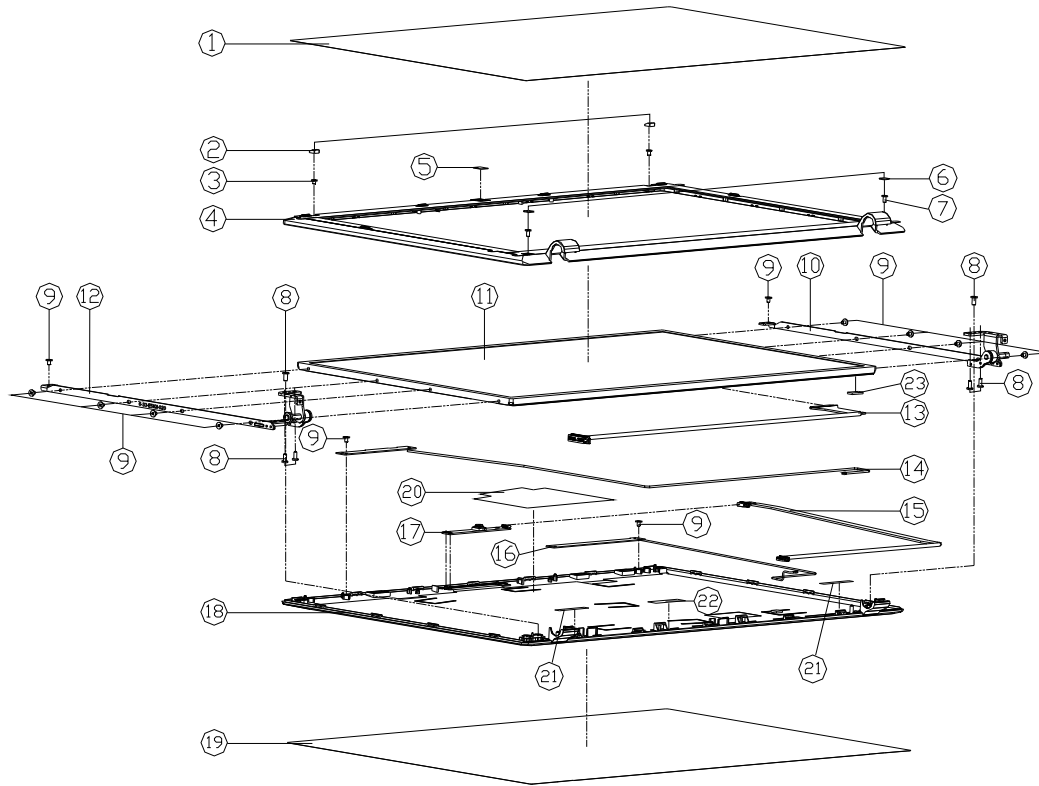
DVD DUAL (W253EUQ)

Figure A - 7
DVD DUAL
(W253EUQ)



ITEM	PART NAME	PART NO	REMARK
1	SCREW M4X4 KI NI ICT G1Y-RATCH	6-35-B1120-3RE	
2	CD ROM BRACKET SECC. GRND M7403	6-33-M745Z-01E-1	
3	DRIVE MOTOR ASSEMBLY WITH SHIELDING COVER (L) (M) (R) (D)	6-85-A078X-P12	FOR PANASONIC
4	DDD BEZEL MODULE (MPI) W253HPD	6-42-W253Z-101	FOR TSST
5	SUPER MULTI DDD BEZEL LABEL (SIZE CHANGE)	6-45-W8600-011	

LCD (W251EUQ/W253EUQ/W255EU/W258EUQ)



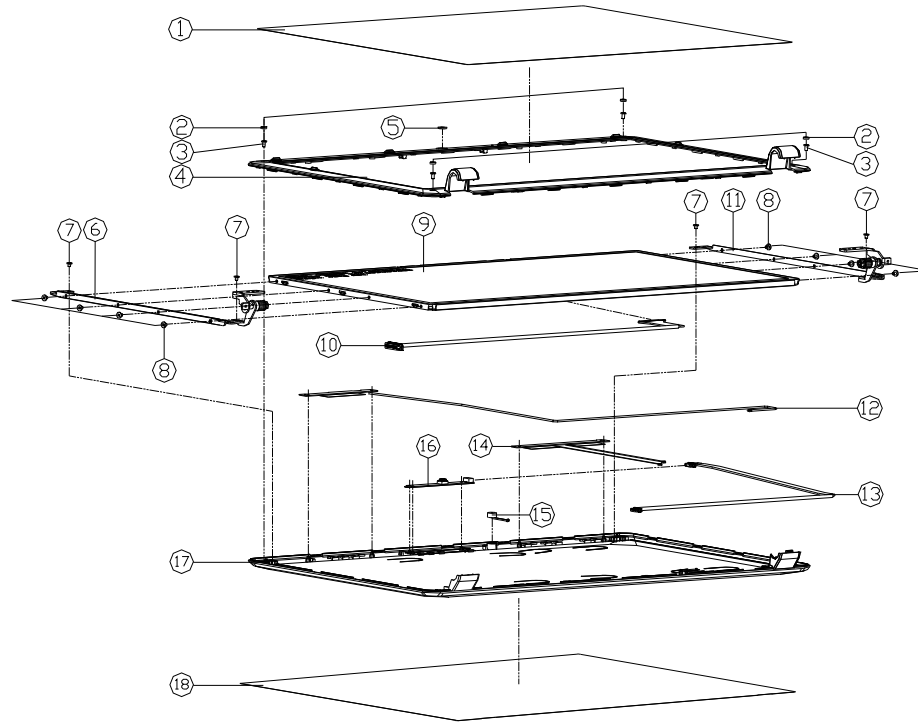
ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER PROTECTION MYLAR (PET-30825) ES200	6-40-E51Q1-030	
2	LCD FRONT COVER SCREW RUBBER SLICER ES200	6-47-E51Q8-011	
3	SCREW M2x3. KI RZ ICT NY (CO#445,DT#4)	6-35-B6120-3RD	
4	LCD FRONT COVER MODULE ES200 (CHANGE)	6-39-E51Q1-012	
5	CCD LENS PMMA ES120Q	6-42-E51Q1-031	
5	W/O CCD LENS PMMA ES120Q	6-42-E51Q1-040	
6	FRONT COVER MYLAR PC FOR SCREW ES200	6-40-E51Q8-011	
7	SCREW M2xL KI BK/2 ICT NY(335 t#4)	6-35-B6120-6RB	
8	SCREW M2x3xL 303SS GLASS KI BK/2 ICT NY	6-35-B6125-5RD	
9	LCD HINGE R SK7 W25SHUM (CSTINHER)	6-35-B1120-3RE	
10	LCD HINGE R SK7 W25SHUM (CSTINHER)	6-33-W25U1-010	
11	LCD 156" HD AU IPS6462 V2 GLARE TYPE S5MM QLED	6-50-L8155-G01	
11	LCD 156" HD LG LP56WH-TL81 GLARE TYPE QLED S5MM	6-50-L8155-L0B	
11	LCD 156" HD LG LP56WH-TL81 QLED S5MM	6-50-L8155-L0C	
11	LCD 156" HD CHIMEI M5686-L0A S5MM QLED	6-50-L8155-D04	
11	LCD 156" HD LG LP56WH-TL81 GLARE TYPE QLED S5MM	6-50-L8257-L02	
11	LCD 156" HD CHIMEI M5686-L81 GLARE TYPE QLED S5MM	6-50-L8155-D03	
11	LCD 156" HD LG LP56WH-TL82 GLARE TYPE	6-50-LA157-L03	
11	LCD 156" HD BDC H156WV8-6A2 QLED S5MM	6-50-L8155-H02	
12	LCD HINGE L SK7 W25SHUM (CSTINHER)	6-33-W25U1-020	
13	WIRE CABLE FOR LIVE 229M (L) (C) (S) (H) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z) (AA) (AB) (AC) (AD) (AE) (AF) (AG) (AH) (AI) (AJ) (AK) (AL) (AM) (AN) (AO) (AP) (AQ) (AR) (AS) (AT) (AU) (AV) (AW) (AX) (AY) (AZ) (BA) (BB) (BC) (BD) (BE) (BF) (BG) (BH) (BI) (BJ) (BK) (BL) (BM) (BN) (BO) (BP) (BQ) (BR) (BS) (BT) (BU) (BV) (BW) (BX) (BY) (BZ) (CA) (CB) (CC) (CD) (CE) (CF) (CG) (CH) (CI) (CJ) (CK) (CL) (CM) (CN) (CO) (CP) (CQ) (CR) (CS) (CT) (CU) (CV) (CW) (CX) (CY) (CZ) (DA) (DB) (DC) (DD) (DE) (DF) (DG) (DH) (DI) (DJ) (DK) (DL) (DM) (DN) (DO) (DP) (DQ) (DR) (DS) (DT) (DU) (DV) (DW) (DX) (DY) (DZ) (EA) (EB) (EC) (ED) (EE) (EF) (EG) (EH) (EI) (EJ) (EK) (EL) (EM) (EN) (EO) (EP) (EQ) (ER) (ES) (ET) (EU) (EV) (EW) (EX) (EY) (EZ) (FA) (FB) (FC) (FD) (FE) (FF) (FG) (FH) (FI) (FJ) (FK) (FL) (FM) (FN) (FO) (FP) (FQ) (FR) (FS) (FT) (FU) (FV) (FW) (FX) (FY) (FZ) (GA) (GB) (GC) (GD) (GE) (GF) (GG) (GH) (GI) (GJ) (GK) (GL) (GM) (GN) (GO) (GP) (GQ) (GR) (GS) (GT) (GU) (GV) (GW) (GX) (GY) (GZ) (HA) (HB) (HC) (HD) (HE) (HF) (HG) (HH) (HI) (HJ) (HK) (HL) (HM) (HN) (HO) (HP) (HQ) (HR) (HS) (HT) (HU) (HV) (HW) (HX) (HY) (HZ) (IA) (IB) (IC) (ID) (IE) (IF) (IG) (IH) (II) (IJ) (IK) (IL) (IM) (IN) (IO) (IP) (IQ) (IR) (IS) (IT) (IU) (IV) (IW) (IX) (IY) (IZ) (JA) (JB) (JC) (JD) (JE) (JF) (JG) (JH) (JI) (JJ) (JK) (JL) (JM) (JN) (JO) (JP) (JQ) (JR) (JS) (JT) (JU) (JV) (JW) (JX) (JY) (JZ) (KA) (KB) (KC) (KD) (KE) (KF) (KG) (KH) (KI) (KJ) (KL) (KM) (KN) (KO) (KP) (KQ) (KR) (KS) (KT) (KU) (KV) (KW) (KX) (KY) (KZ) (LA) (LB) (LC) (LD) (LE) (LF) (LG) (LH) (LI) (LJ) (LK) (LM) (LN) (LO) (LP) (LQ) (LR) (LS) (LT) (LU) (LV) (LW) (LX) (LY) (LZ) (MA) (MB) (MC) (MD) (ME) (MF) (MG) (MH) (MI) (MJ) (MK) (ML) (MN) (MO) (MP) (MQ) (MR) (MS) (MT) (MU) (MV) (MW) (MX) (MY) (MZ) (NA) (NB) (NC) (ND) (NE) (NF) (NG) (NH) (NI) (NJ) (NK) (NL) (NM) (NO) (NP) (NQ) (NR) (NS) (NT) (NU) (NV) (NW) (NX) (NY) (NZ) (OA) (OB) (OC) (OD) (OE) (OF) (OG) (OH) (OI) (OJ) (OK) (OL) (OM) (ON) (OO) (OP) (OQ) (OR) (OS) (OT) (OU) (OV) (OW) (OX) (OY) (OZ) (PA) (PB) (PC) (PD) (PE) (PF) (PG) (PH) (PI) (PJ) (PK) (PL) (PM) (PN) (PO) (PP) (PQ) (PR) (PS) (PT) (PU) (PV) (PW) (PX) (PY) (PZ) (QA) (QB) (QC) (QD) (QE) (QF) (QG) (QH) (QI) (QJ) (QK) (QL) (QM) (QN) (QO) (QP) (QQ) (QR) (QS) (QT) (QU) (QV) (QW) (QX) (QY) (QZ) (RA) (RB) (RC) (RD) (RE) (RF) (RG) (RH) (RI) (RJ) (RK) (RL) (RM) (RN) (RO) (RP) (RQ) (RR) (RS) (RT) (RU) (RV) (RW) (RX) (RY) (RZ) (SA) (SB) (SC) (SD) (SE) (SF) (SG) (SH) (SI) (SJ) (SK) (SL) (SM) (SN) (SO) (SP) (SQ) (SR) (SS) (ST) (SU) (SV) (SW) (SX) (SY) (SZ) (TA) (TB) (TC) (TD) (TE) (TF) (TG) (TH) (TI) (TJ) (TK) (TL) (TM) (TN) (TO) (TP) (TQ) (TR) (TS) (TT) (TU) (TV) (TW) (TX) (TY) (TZ) (UA) (UB) (UC) (UD) (UE) (UF) (UG) (UH) (UI) (UJ) (UK) (UL) (UM) (UN) (UO) (UP) (UQ) (UR) (US) (UT) (UU) (UV) (UW) (UX) (UY) (UZ) (VA) (VB) (VC) (VD) (VE) (VF) (VG) (VH) (VI) (VJ) (VK) (VL) (VM) (VN) (VO) (VP) (VQ) (VR) (VS) (VT) (VU) (VV) (VW) (VX) (VY) (VZ) (WA) (WB) (WC) (WD) (WE) (WF) (WG) (WH) (WI) (WJ) (WK) (WL) (WM) (WN) (WO) (WP) (WQ) (WR) (WS) (WT) (WU) (WV) (WW) (WX) (WY) (WZ) (XA) (XB) (XC) (XD) (XE) (XF) (XG) (XH) (XI) (XJ) (XK) (XL) (XM) (XN) (XO) (XP) (XQ) (XR) (XS) (XT) (XU) (XV) (XW) (XX) (XY) (XZ) (YA) (YB) (YC) (YD) (YE) (YF) (YG) (YH) (YI) (YJ) (YK) (YL) (YM) (YN) (YO) (YP) (YQ) (YR) (YS) (YT) (YU) (YV) (YW) (YX) (YZ) (ZA) (ZB) (ZC) (ZD) (ZE) (ZF) (ZG) (ZH) (ZI) (ZJ) (ZK) (ZL) (ZM) (ZN) (ZO) (ZP) (ZQ) (ZR) (ZS) (ZT) (ZU) (ZV) (ZW) (ZX) (ZY) (ZZ)		

Figure A - 8
LCD (W251EUQ/
W253EUQ/
W255EU/
W258EUQ)

A.Part Lists

LCD (W253EUQ)

Figure A - 9
LCD (W253EUQ)



ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER PROTECTION FILM (P1) (W253EUQ)	6-40-E5101-030-1	
2	LCD FRONT COVER SCREW RUBBER (M2X4L) (W253HPD)	6-47-W2531-041	
3	SCREW W2X4L KI BNI ICT NY	6-35-B9120-4RA	
4	LCD FRONT COVER MODULE (MP1) (W253HPD)	6-39-W2531-011	
5	CCD LENS PMMA (G9000) (MP1) (W253HPD)	6-42-W2531-011	
5	W/O CCD LENS PMMA (G9000) (W253HPD)	6-42-W2531-040	
6	LCD HINGE L (MP1) (W253HPD)	6-33-W2531-021	
7	SCREW M2X4 KI NI ICT NY (00-045.01-04)	6-35-C2125-3R0	
8	SCREW M2X4 KI NI ICT NY (00-045.01-04)	6-35-B1120-3RE	
9	LCD 156" HD LG LP156VH1-TL2E GLARE 55MM	6-50-L8155-LOC	
9	LCD 156" HD LG LP156VH1-TL2E GLARE TYPE	6-50-LA157-LO3	
9	LCD 156" HD CHRE1 M2536-L10E GLARE TYPE 55MM LED	6-50-L8155-D03	
9	LCD 156" HD LG LP156VH1-TL2E GLARE TYPE 55MM	6-50-LB257-LO2	
10	WIRE CABLE FOR LVDS 30MM (GL) (C0430R00-01) (W253HPD)	6-43-W2531-010-C	
10	WIRE CABLE FOR VIB 22MM (GL) (C0430R00-01) (W253HPD)	6-43-E5101-011-1A	
11	LCD HINGE R (MP1) (W253HPD)	6-33-W2531-011	
12	ANTENNA 2.17E X 1.7E (M2536-L10E) (W253HPD)	6-23-W2531-010	
13	WIRE CABLE FOR CCD SP 223MM (GL) (W253HPD)	6-43-W2531-010	
14	CAMERA 2.17E X 1.7E (M2536-L10E) (W253HPD)	6-23-W2531-010	
15	MC CAMERA 2.17E X 1.7E (M2536-L10E) (W253HPD)	6-23-EW2531-011	
16	MC CAMERA 2.17E X 1.7E (M2536-L10E) (W253HPD)	6-88-M115C-4902	OPTION
16	MC CAMERA 2.17E X 1.7E (M2536-L10E) (W253HPD)	6-88-M111C-5100	OPTION
16	MC CAMERA 2.17E X 1.7E (M2536-L10E) (W253HPD)	6-88-W2531-5100	OPTION
17	LCD BACK COVER MODULE (MR) (MP1) (W253HPD)	6-39-W2531-021	
17	LCD BACK COVER MODULE (MR) (MP1) (W253HPD)	6-39-W2531-021-C	
18	LCD BACK COVER PROTECTION FILM (P2) (W253EUQ)	6-40-E5101-041	

Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the *W251EUQ/W253EUQ/W255EU/W258EUQ* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

Diagram - Page	Diagram - Page	Diagram - Page
<i>System Block Diagram - Page B - 2</i>	<i>PantherPoint - M 6/9 - Page B - 19</i>	<i>Power 0.85VS - Page B - 36</i>
<i>Ivy Bridge Processor 1/7 - Page B - 3</i>	<i>PantherPoint - M 7/9 - Page B - 20</i>	<i>Power V-Core1 - Page B - 37</i>
<i>Ivy Bridge Processor 2/7 - Page B - 4</i>	<i>PantherPoint - M 8/9 - Page B - 21</i>	<i>Power V-Core2 - Page B - 38</i>
<i>Ivy Bridge Processor 3/7 - Page B - 5</i>	<i>PantherPoint - M 9/9 - Page B - 22</i>	<i>Charger, AC In - Page B - 39</i>
<i>Ivy Bridge Processor 4/7 - Page B - 6</i>	<i>USB 3.0, Power, WLAN - Page B - 23</i>	<i>Click Board - Page B - 40</i>
<i>Ivy Bridge Processor 5/7 - Page B - 7</i>	<i>CCD, 3G, TPM - Page B - 24</i>	<i>Audio Board/USB - Page B - 41</i>
<i>Ivy Bridge Processor 6/7 - Page B - 8</i>	<i>Card Reader, LAN RTL8411 - Page B - 25</i>	<i>Power Switch & LID Board - Page B - 42</i>
<i>Ivy Bridge Processor 7/7 - Page B - 9</i>	<i>LAN (RTL8411), SATA HDD, ODD - Page B - 26</i>	<i>External ODD Board - Page B - 43</i>
<i>DDR3 SO-DIMM_0 - Page B - 10</i>	<i>USB 3.0 TI TUSB7320 - Page B - 27</i>	<i>Power Sequence - Page B - 44</i>
<i>DDR3 SO-DIMM_1 - Page B - 11</i>	<i>KBC-ITE IT8518 - Page B - 28</i>	
<i>LVDS, Inverter - Page B - 12</i>	<i>LED, MDC - Page B - 29</i>	
<i>HDMI, CRT - Page B - 13</i>	<i>Audio Codec ALC269 - Page B - 30</i>	
<i>PantherPoint - M 1/9 - Page B - 14</i>	<i>USB Charger, Fan, TP, Multi-Conn - Page B - 31</i>	
<i>PantherPoint - M 2/9 - Page B - 15</i>	<i>System Power - Page B - 32</i>	
<i>PantherPoint - M 3/9 - Page B - 16</i>	<i>VDD3, VDD5 - Page B - 33</i>	
<i>PantherPoint - M 4/9 - Page B - 17</i>	<i>Power 1.5V/0.75V/1.8VS - Page B - 34</i>	
<i>PantherPoint - M 5/9 - Page B - 18</i>	<i>Power 1.05VS - Page B - 35</i>	

Table B - 1
**SCHEMATIC
DIAGRAMS**

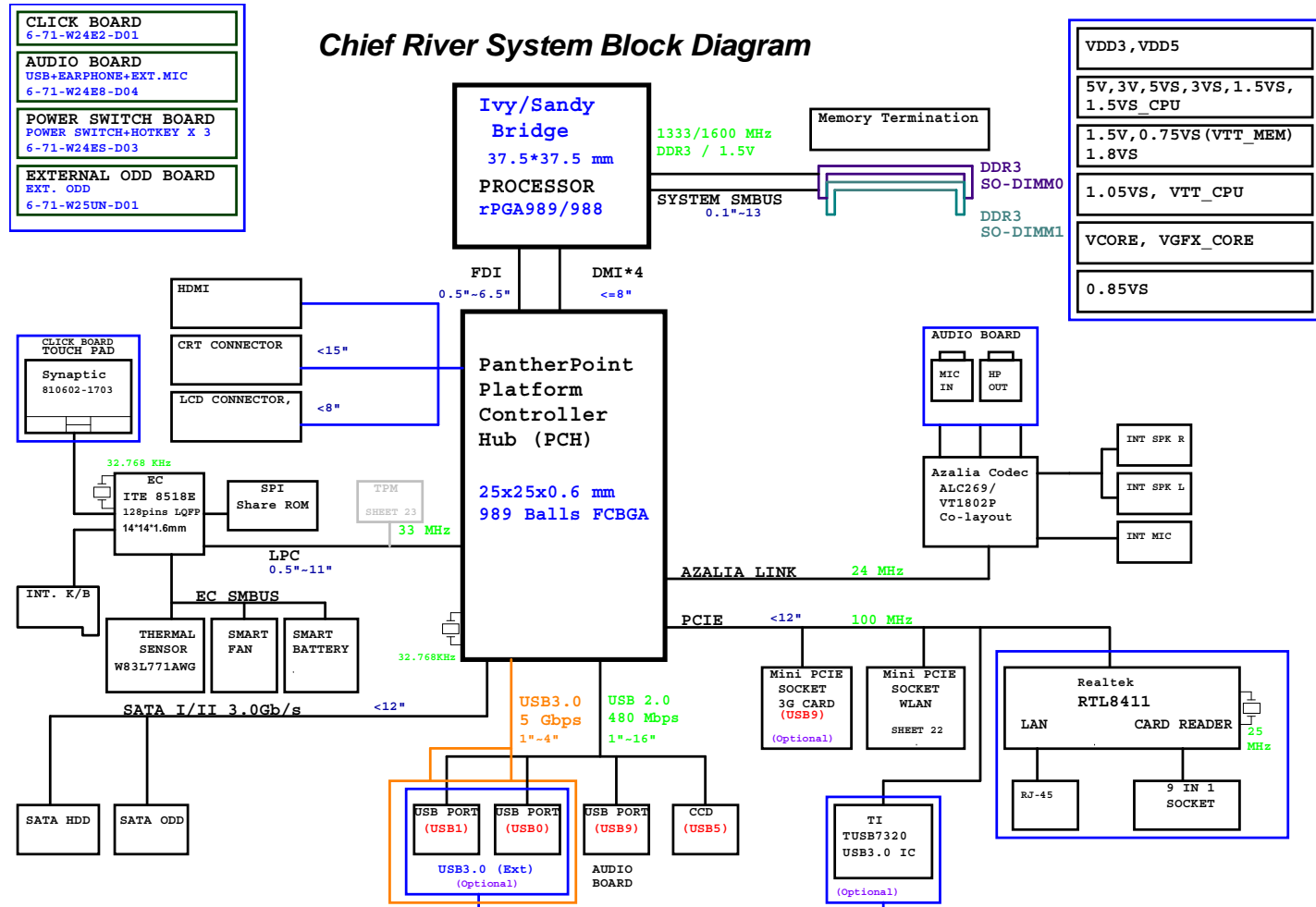


Version Note

The schematic diagrams in this chapter are based upon version 6-7P-W25S6-003. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

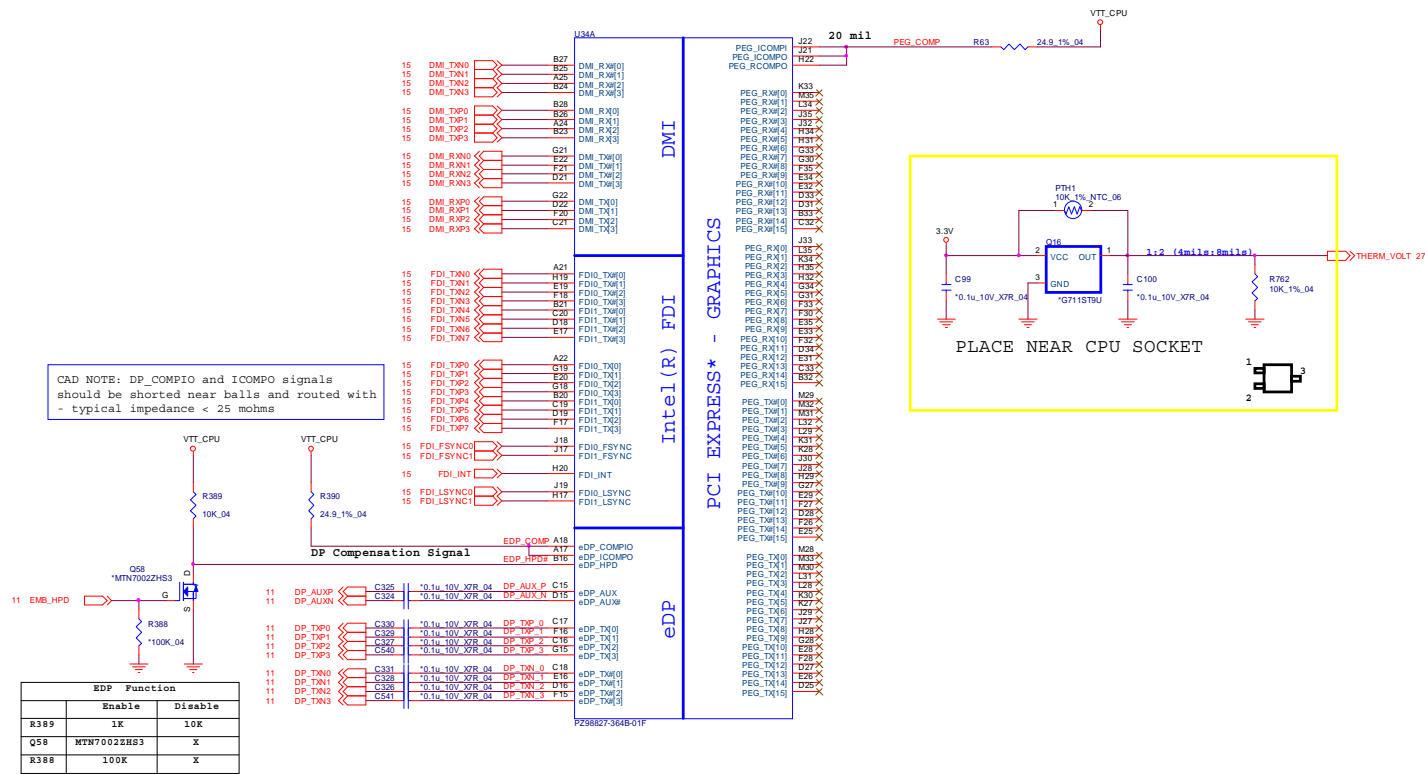
System Block Diagram

Sheet 1 of 43
System Block
Diagram



Ivy Bridge Processor 1/7

Ivy/Sandy Bridge Processor 1/7 (DMI, PEG, FDI)

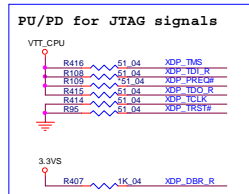


Sheet 2 of 43
Ivy Bridge
Processor 1/7

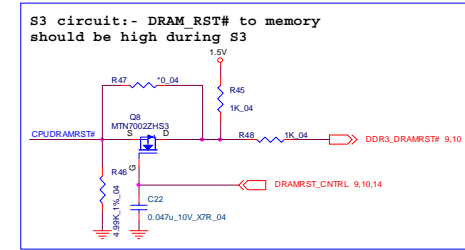
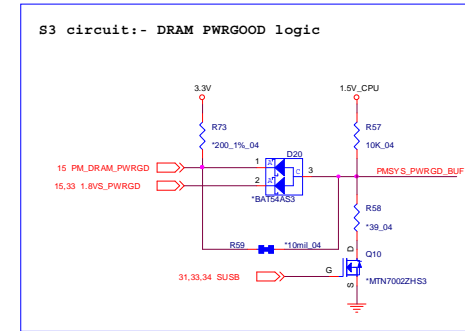
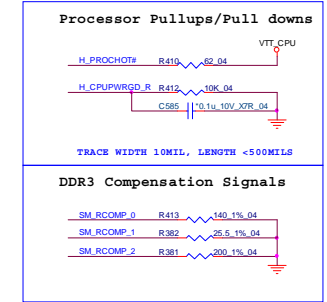
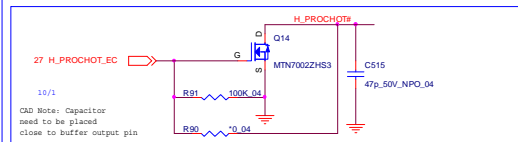
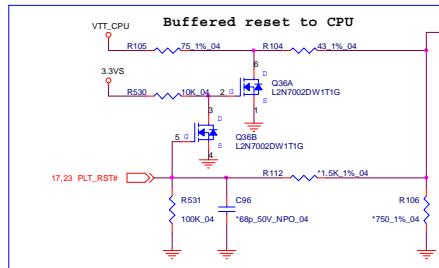
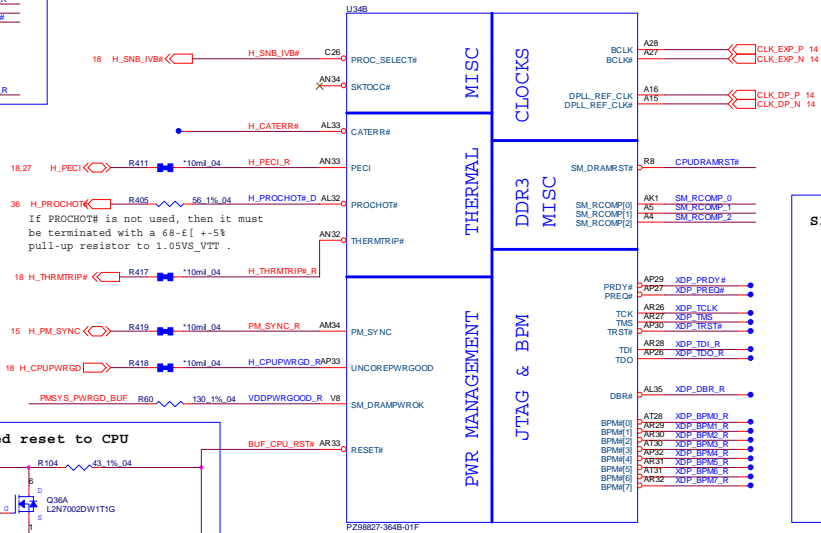
B.Schematic Diagrams

Ivy Bridge Processor 2/7

Sheet 3 of 43
Ivy Bridge
Processor 2/7



Ivy/Sandy Bridge Processor 2/7 (CLK,MISC,JTAG)

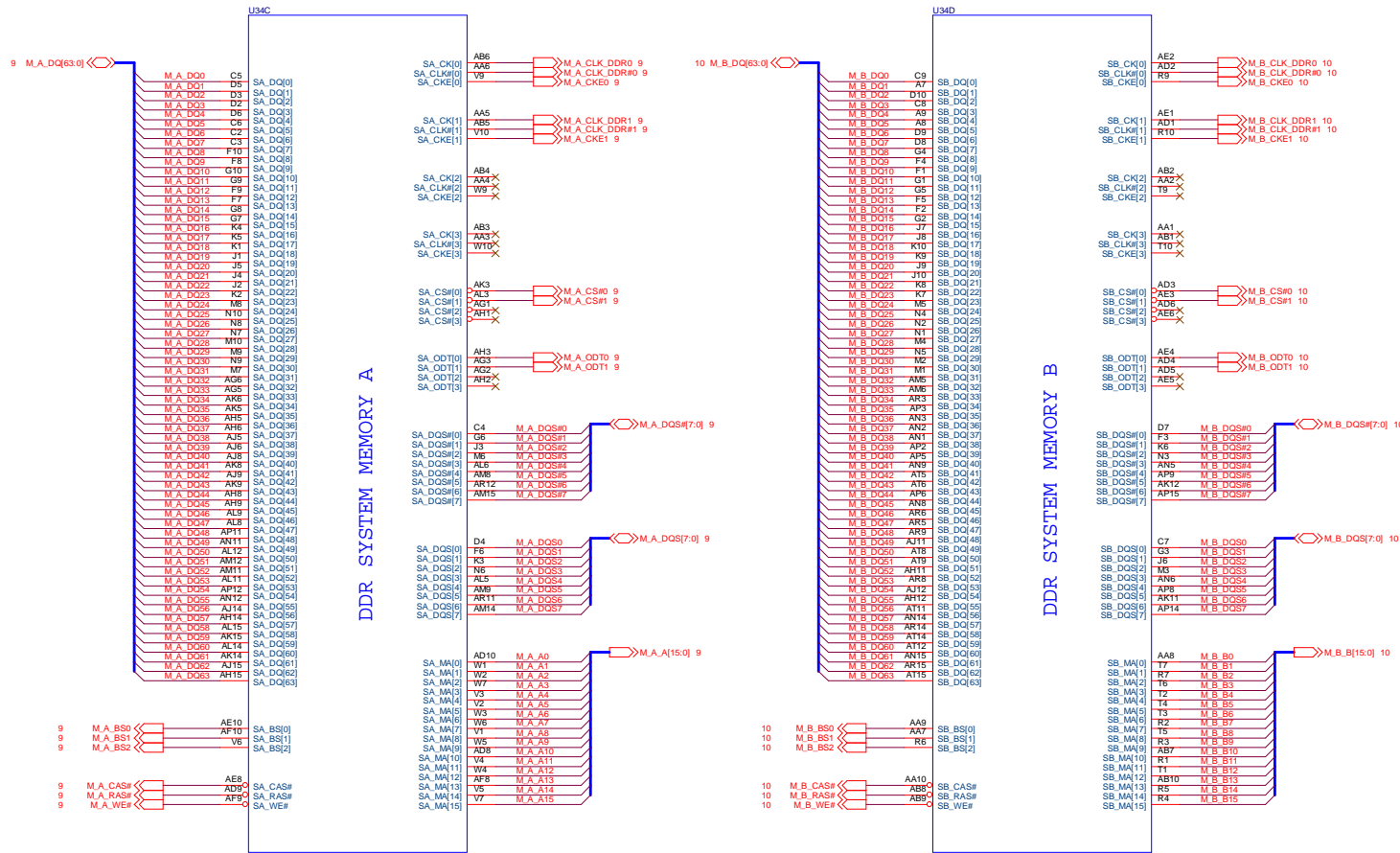


2,5,18,19,20,34,35,36	VTT_CPU
6,31	1.5V_CPU
8,9,10,20,28,31,33,1,5V	3.3V
2,6,11,13,14,15,17,18,19,20,22,23,26,27,28,31,33,34,35	3.3V
9,10,11,12,13,14,15,16,17,18,19,20,23,24,25,27,28,29,30,31,36	3.3VS

AA AN 1q , £ CLEVO CO.	
Title	[03]PROCESSOR 2/7
Size	Document Number
A3	Rev 3.0
Date	Friday, November 18, 2011 Sheet 3 of 43

Ivy Bridge Processor 3/7

Ivy/Sandy Bridge Processor 3/7 (DDR3)



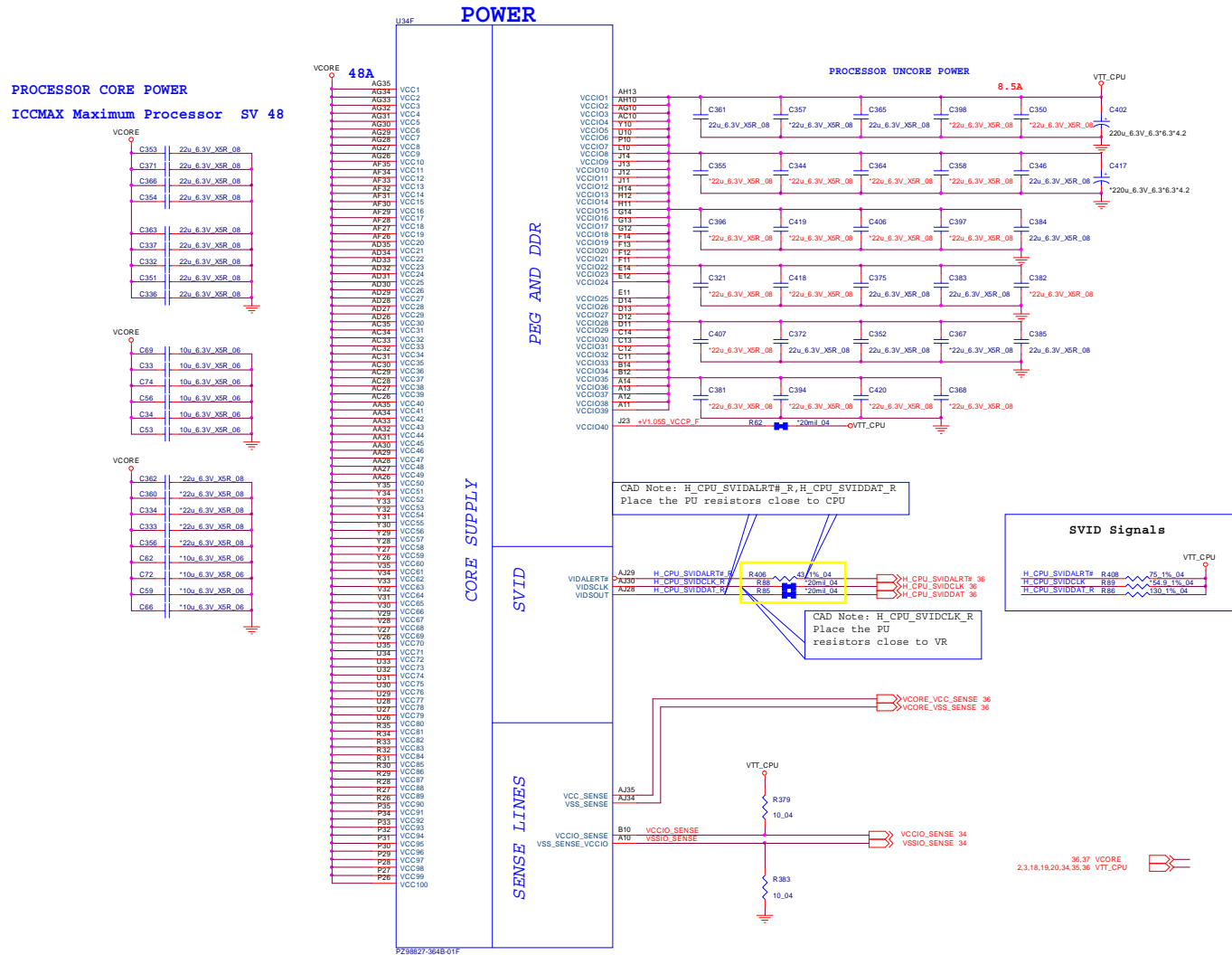
Sheet 4 of 43
Ivy Bridge
Processor 3/7

B.Schematic Diagrams

Ivy Bridge Processor 4/7

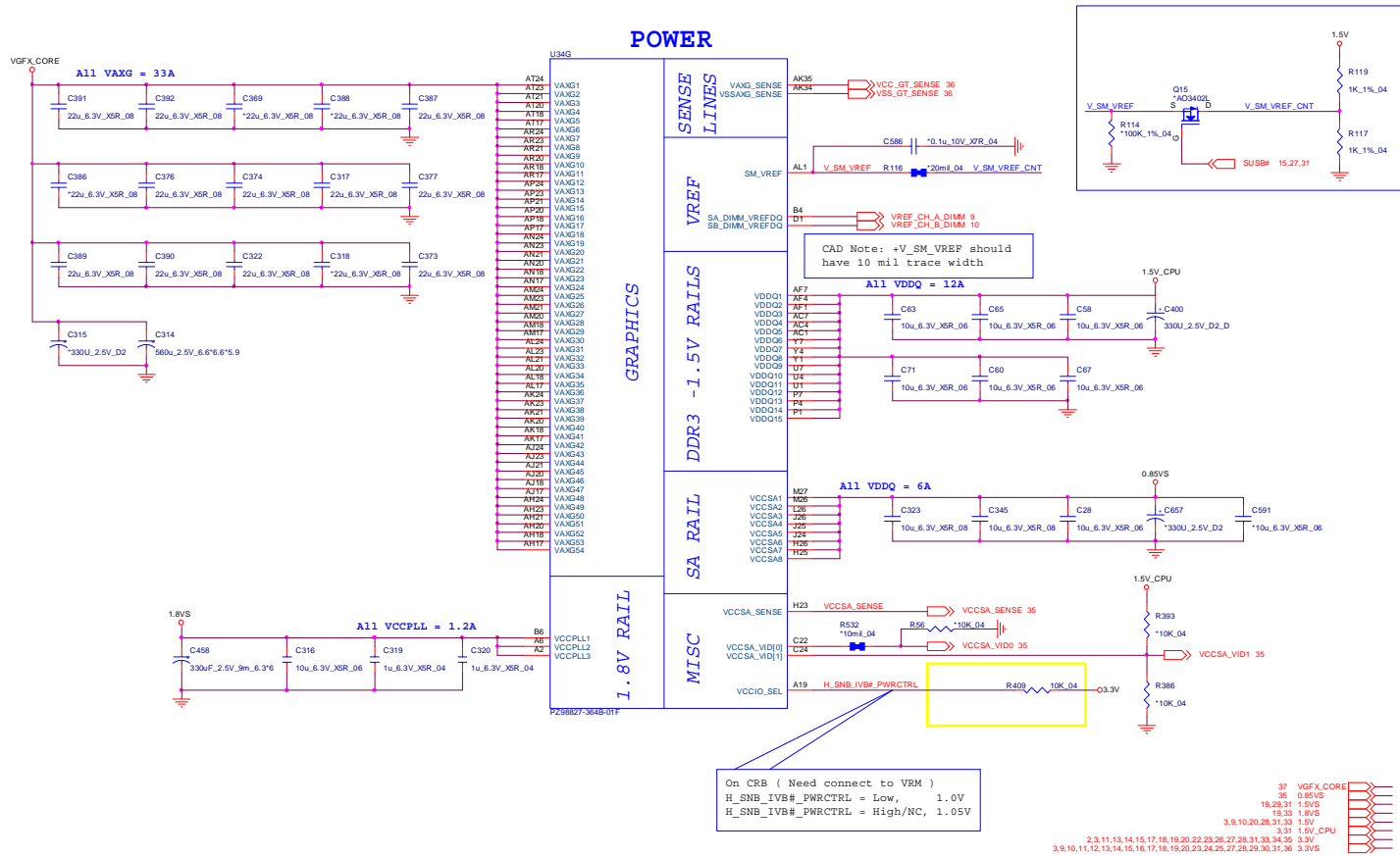
Ivy/Sandy Bridge Processor 4/7

Sheet 5 of 43
Ivy Bridge
Processor 4/7



Ivy Bridge Processor 5/7

Ivy/Sandy Bridge Processor 5/7 (GRAPHICS POWER)



Sheet 6 of 43
Ivy Bridge
Processor 5/7

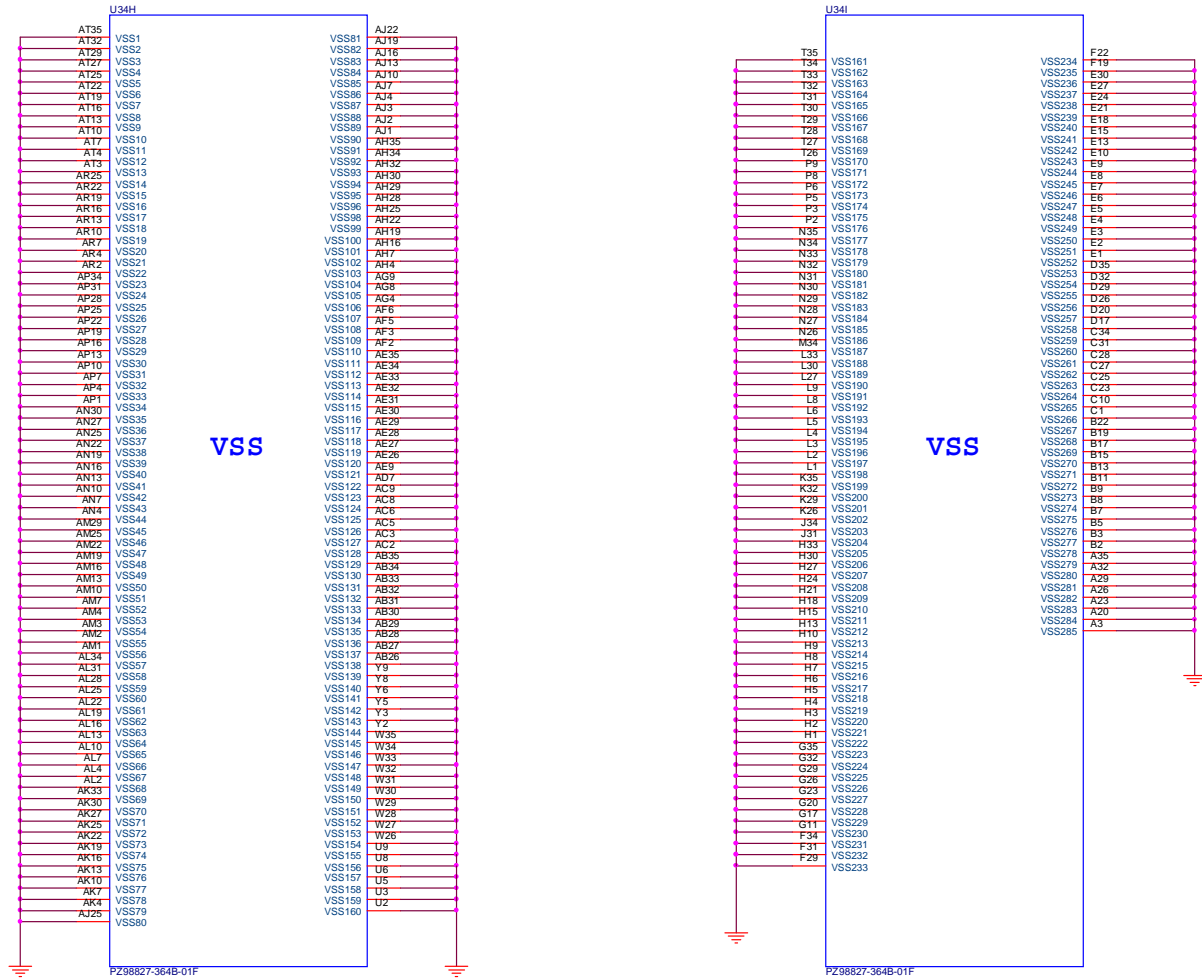
Ivy Bridge Processor 6/7

Ivy\Sandy Bridge Processor 6/7 (GND)

B.Schematic Diagrams

Sheet 7 of 43
Ivy Bridge
Processor 6/7

CAD Note: 0 ohm resistor
should be placed close
to CPU



Ivy Bridge Processor 7/7

Ivy/Sandy Bridge Processor 7/7 (RESERVED)

CFG Straps for Processor

PEG Static Lane Reversal - CFG2 is for the 16x

CFG2	1: (Default) Normal Operation; Lane # definition matches socket pin map definition 0: Lane Reversed
------	--

CFG2 R111 *1K_04

Display Port Presence Strap

CFG4	1: (Default) Disabled; No Physical Display Port attached to Embedded Display Port 0: Enabled; An external Display Port device is connected to the Embedded Display Port
------	--

CFG4 R110 *1K_04

PCIe Port Bifurcation Straps

CFG [6:5]	11: (Default) x16 - Device 1 functions 1 and 2 disabled 10: x8, x8 - Device 1 function 1 enabled ; function 2 disabled 01: Reserved - (Device 1 function 1 disabled ; function 2 enabled) 00: x8,x4,x4 - Device 1 functions 1 and 2 enabled
-----------	--

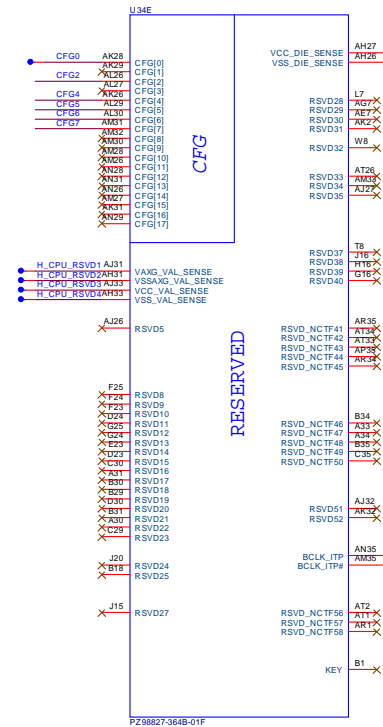
CFG5 R99 *1K_04

CFG6 R92 *1K_04

PEG DEFER TRAINING

CFG7	1: (Default) PEG Train immediately following xxRESETB de assertion 0: PEG Wait for BIOS for training
------	---

CFG7 R93 *1K_04



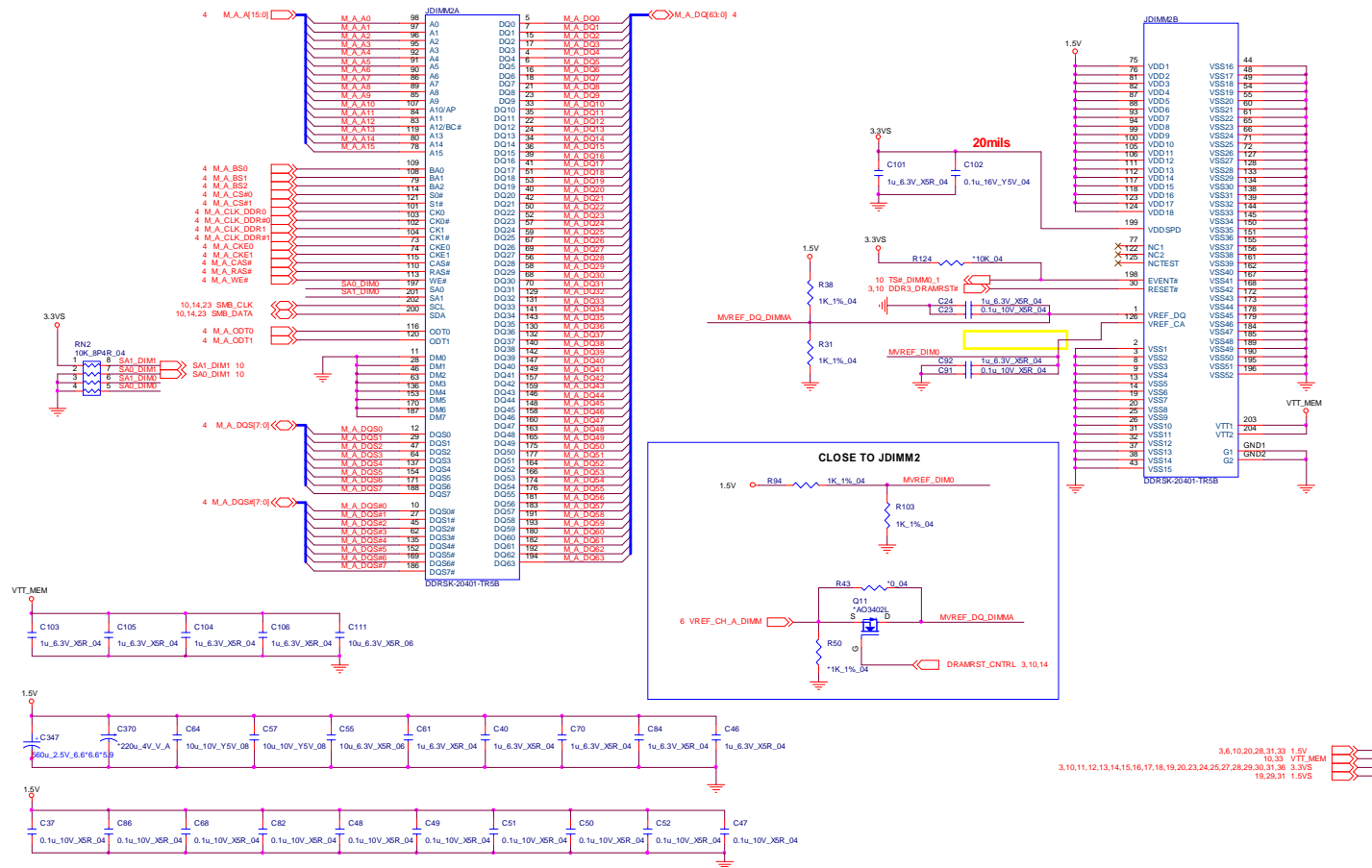
3,6,9,10,20,28,31,33 1.5V

DDR3 SO-DIMM_0

SO-DIMM A CHANGE TO STANDARD

B.Schematic Diagrams

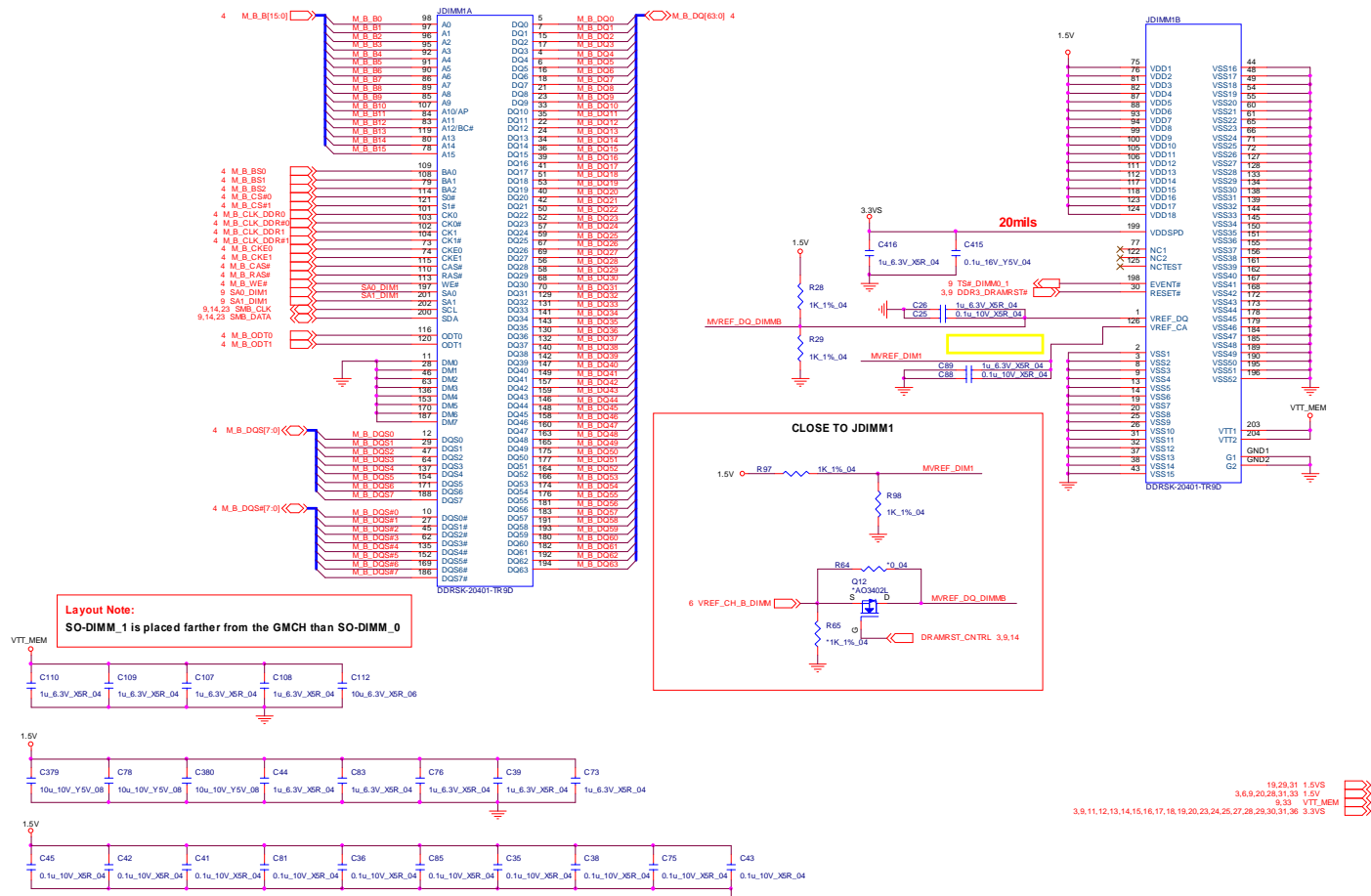
Sheet 9 of 43
DDR3 SO-DIMM_0



DDR3 SO-DIMM_1

SO-DIMM B

CHANGE TO STANDARD



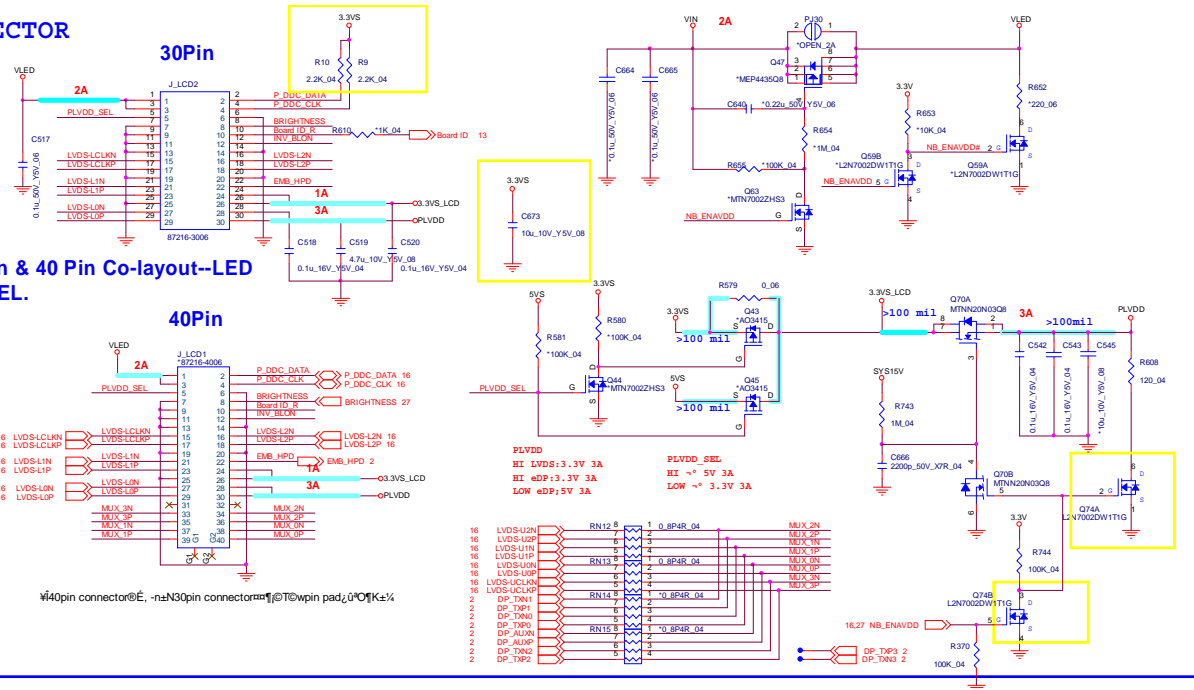
Sheet 10 of 43
DDR3 SO-DIMM_1

B.Schematic Diagrams

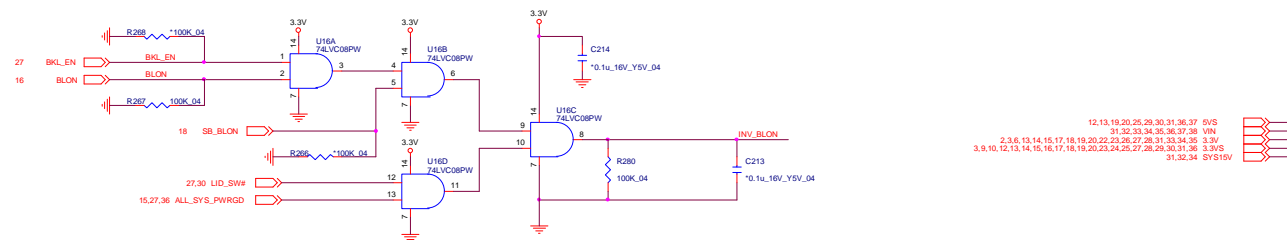
Schematic Diagrams

LVDS, Inverter

PANEL CONNECTOR



INVERTER CONNECTOR

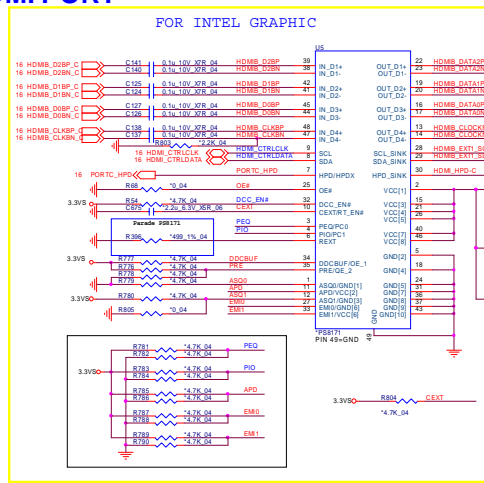


B.Schematic Diagrams

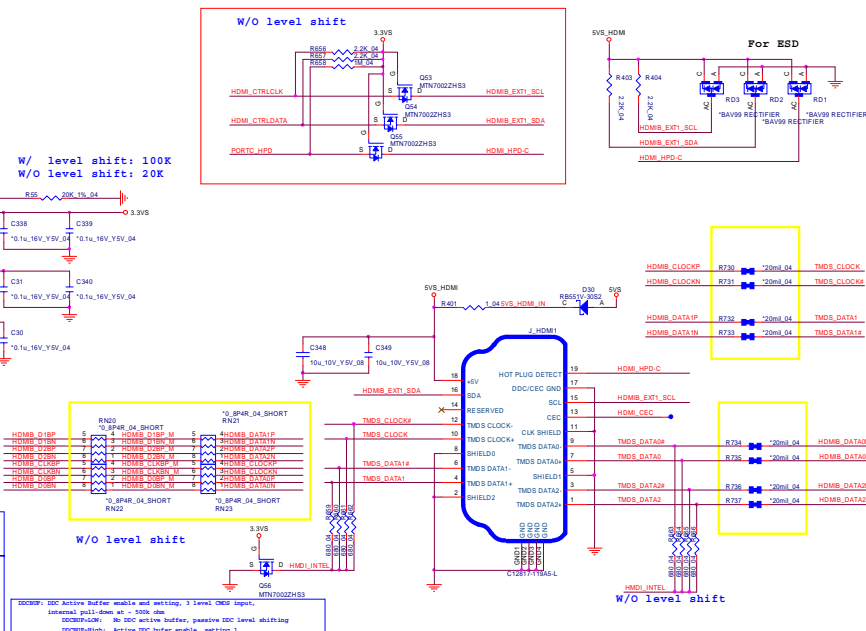
Sheet 11 of 43
LVDS, Inverter

HDMI, CRT

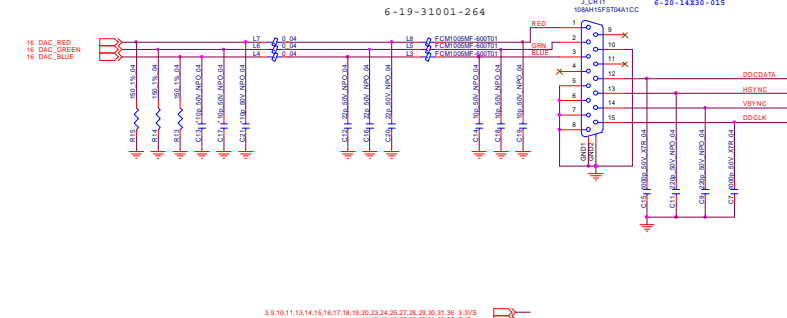
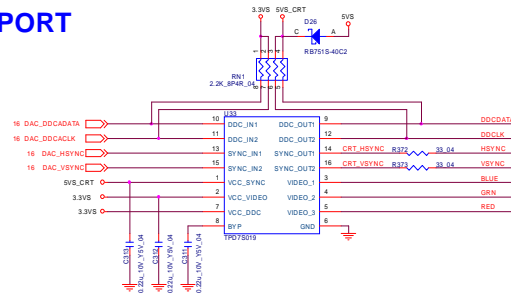
HDMI PORT



<p>BD0: Output level and polarity of BD0 is defined by PD0</p> <p>PD0=LOW: W/0-SHQ (20K Ohm) output</p> <p>PD0=HIGH: W/0-SHQ (20K Ohm) output</p> <p>PD0: Internal pull-down - 50K Ohm</p>	<p>AP0: Automatic power-down management, 3-level OHS input, internal pull-up at - 50K Ohm</p> <p>AP0=LOW: Automatic power-down disable</p> <p>AP0=HIGH: Automatic power-down enable</p> <p>AP0=HIGH: Reserved</p>
<p>PD0: TMS input equalization control, 3-level OHS input, internal pull-down at - 50K Ohm</p> <p>PD0=LOW: High level W/0 (Default)</p> <p>PD0=HIGH: High level W/0</p> <p>PD0=HIGH: Low level W/0</p>	<p>BD0: DSI: DSI reduction and driver setting, 3-level OHS input, internal pull-up at - 50K Ohm</p> <p>BD0=LOW: DSI: No DSI reduction</p> <p>BD0=HIGH: DSI: Increased rise/fall time</p> <p>BD0=HIGH: DSI: Increased rise/fall time, 2nd</p> <p>BD0=LOW: DSI: Filter setting 1</p> <p>BD0: Reserved</p>



CRT PORT

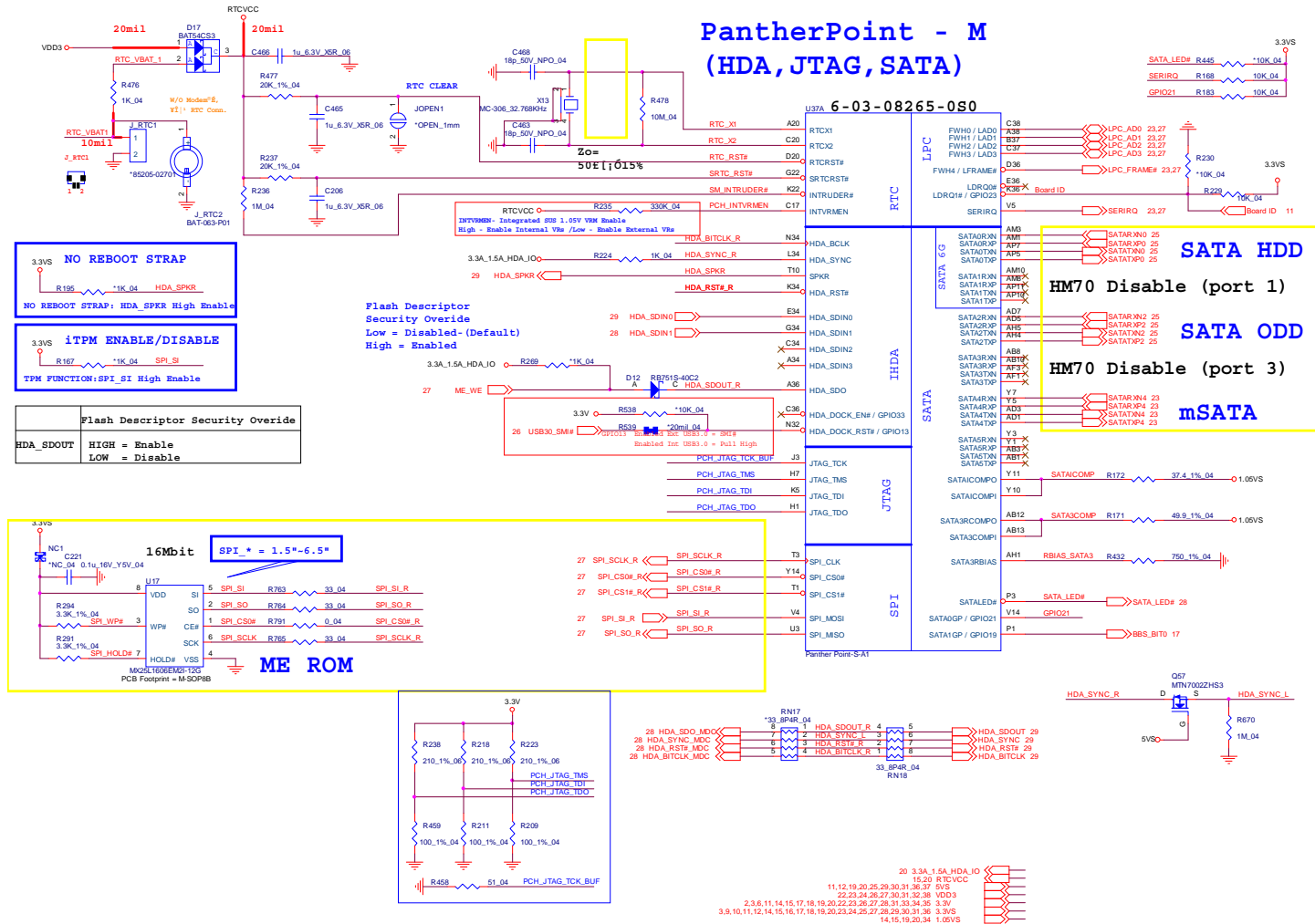


Sheet 12 of 43
HDMI, CRT

B.Schematic Diagrams

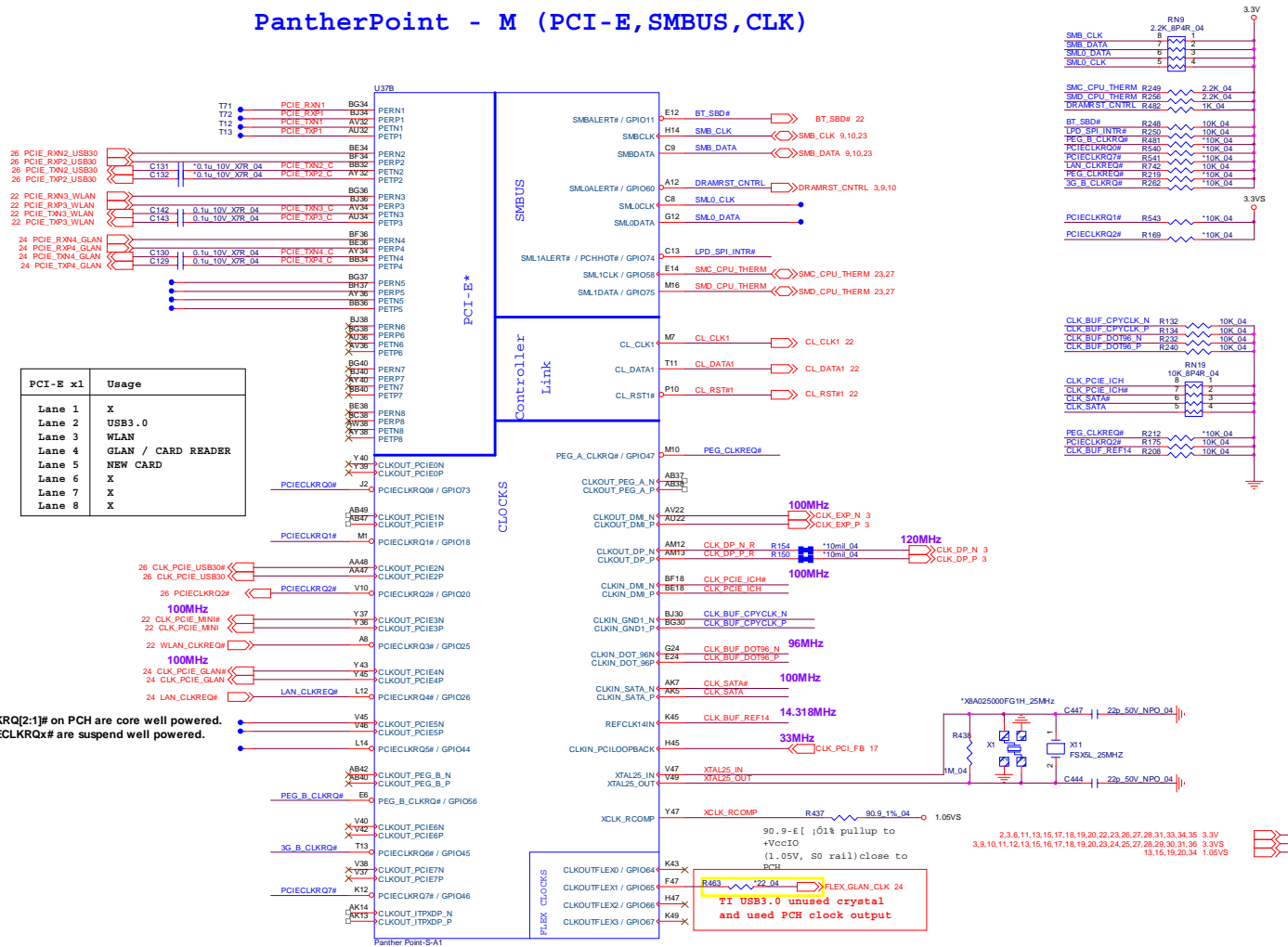
PantherPoint - M 1/9

Sheet 13 of 43
PantherPoint - M
1/9



PantherPoint - M 2/9

PantherPoint - M (PCI-E, SMBUS, CLK)



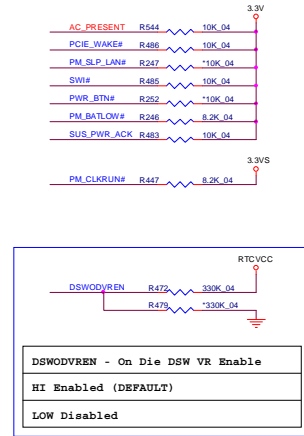
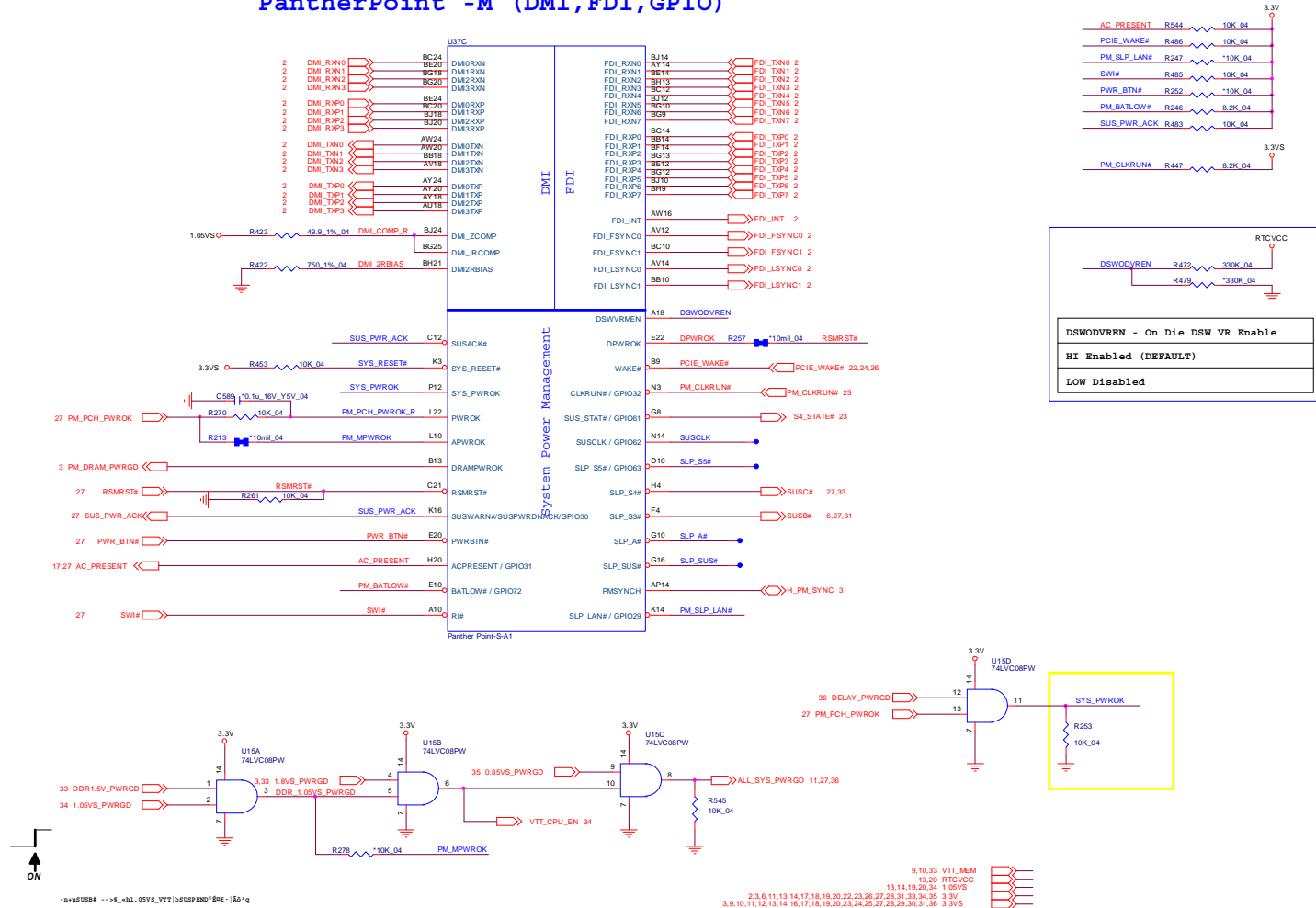
Sheet 14 of 43
PantherPoint - M
2/9

B.Schematic Diagrams

PantherPoint - M 3/9

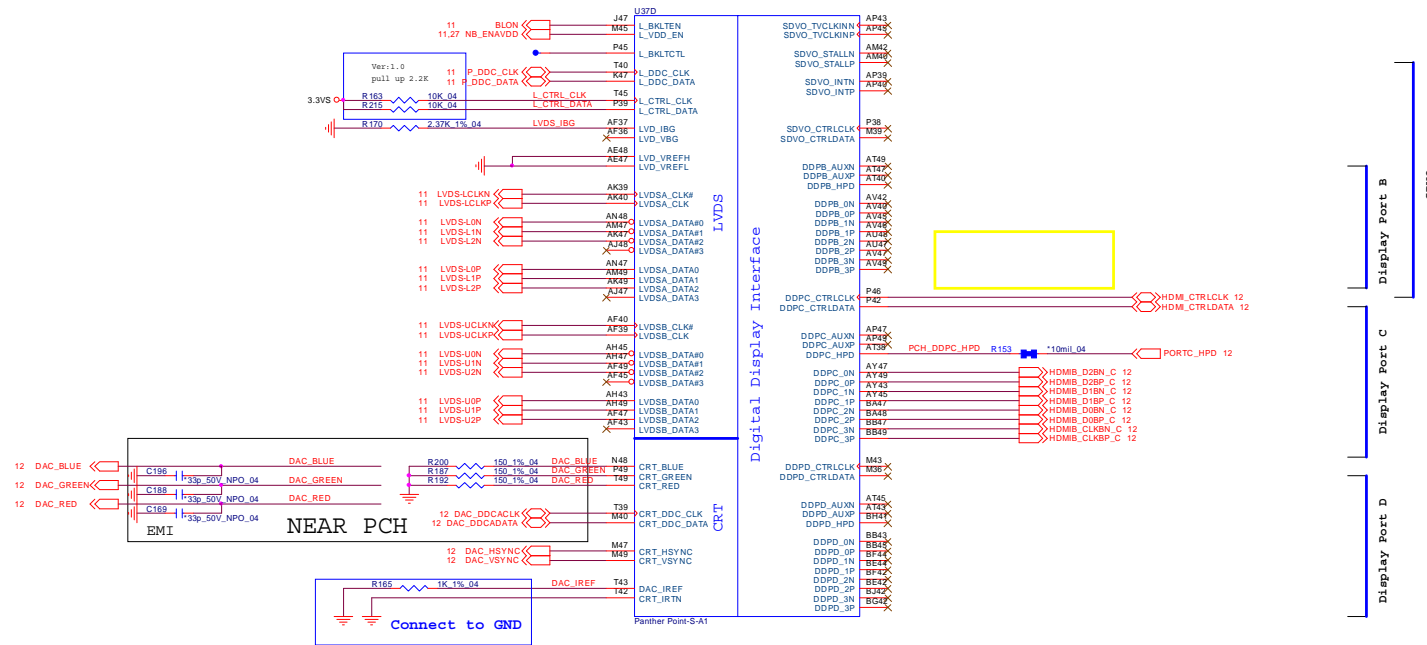
Sheet 15 of 43
PantherPoint - M
3/9

PantherPoint -M (DMI, FDI, GPIO)



PantherPoint - M 4/9

PantherPoint -M (LVDS, DDI, CRT)



Sheet 16 of 43
PantherPoint - M
4/9

B.Schematic Diagrams

SDVO
Display Port B
Display Port C
Display Port D

11,12,13,19,20,25,29,30,31,36,37 5V5
3,9,10,11,12,13,14,15,17,18,19,20,23,24,25,27,28,29,30,31,36 3.3V5

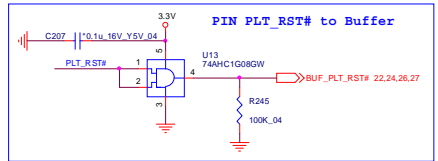
PantherPoint - M 5/9

Sheet 17 of 43
PantherPoint - M
5/9

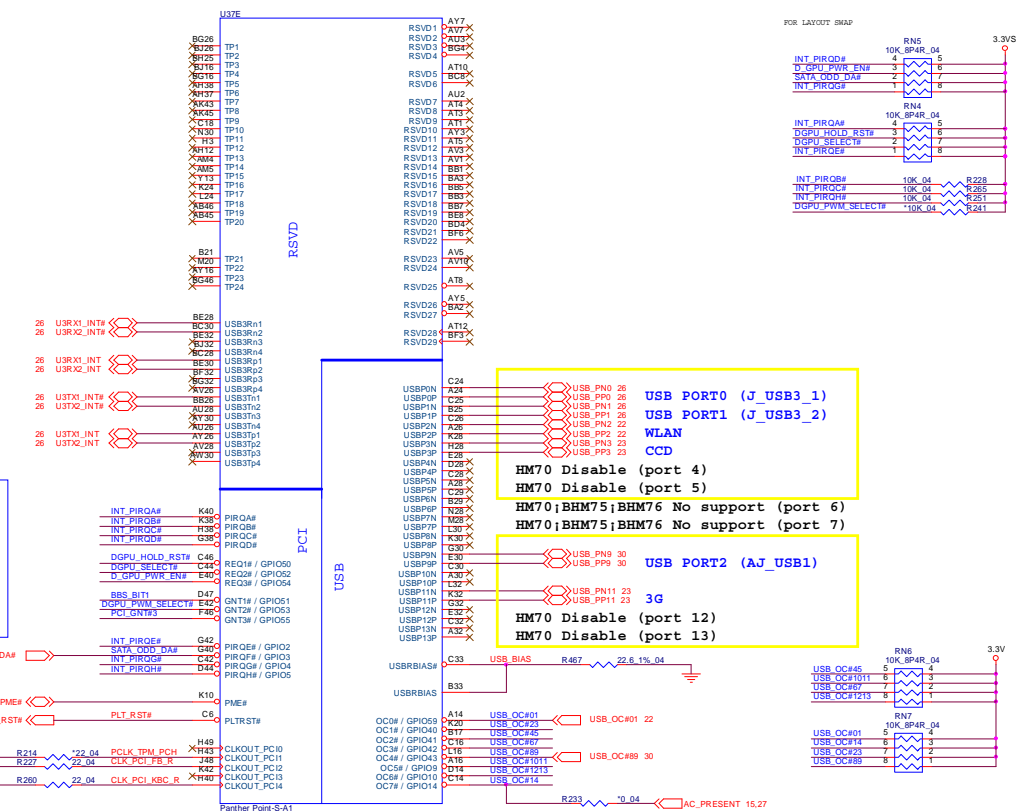
Boot BIOS Strap		
BBS_BIT1	BBS_BIT0	Boot BIOS Location
0	0	LPC
0	1	Reserved (NAND)
1	0	PCI
1	1	SPI

Flash Descriptor security override strap	
PCI_GNT#3	LOW = PCI_GNT#3 swap override HIGH = Default

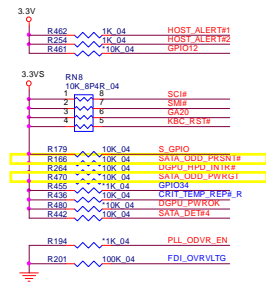
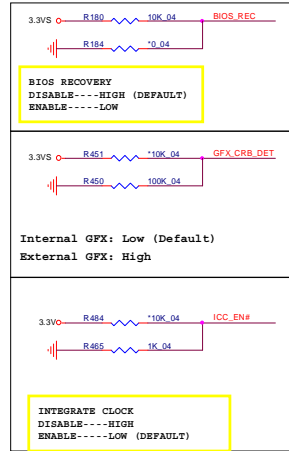
MPC Switch Control
MPC ON -- 0
MPC OFF -- 1 DEFAULT



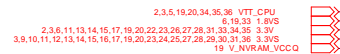
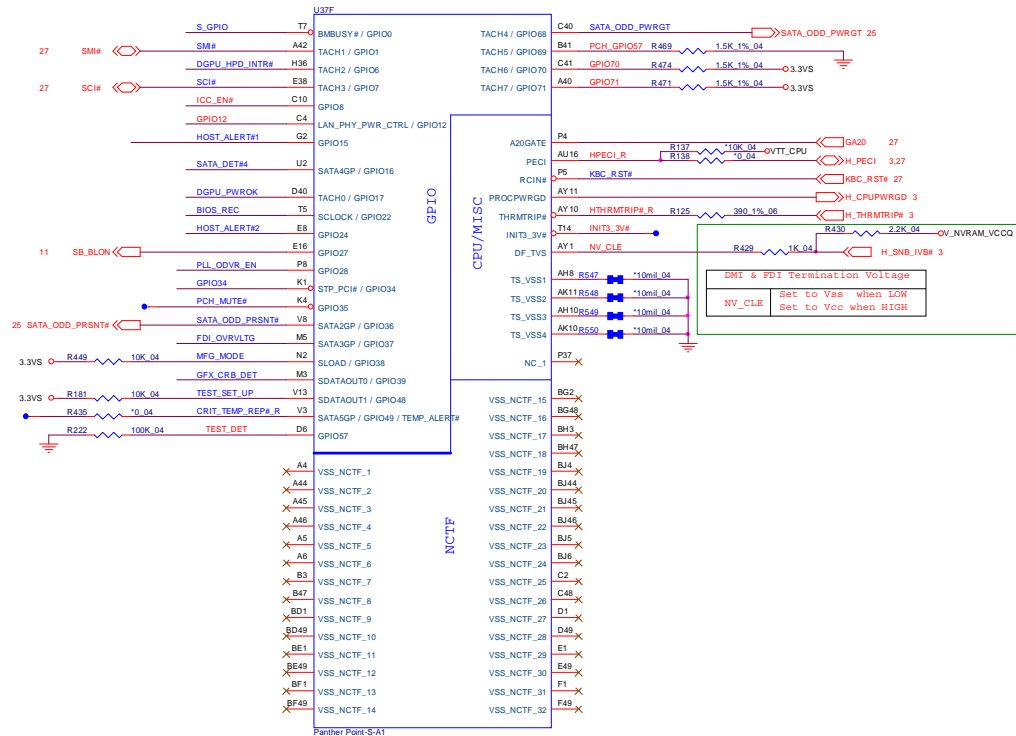
PantherPoint -M (PCI,USB,NVRAM)



PantherPoint - M 6/9



PantherPoint - M (GPIO, VSS_NCTF, RSVD)

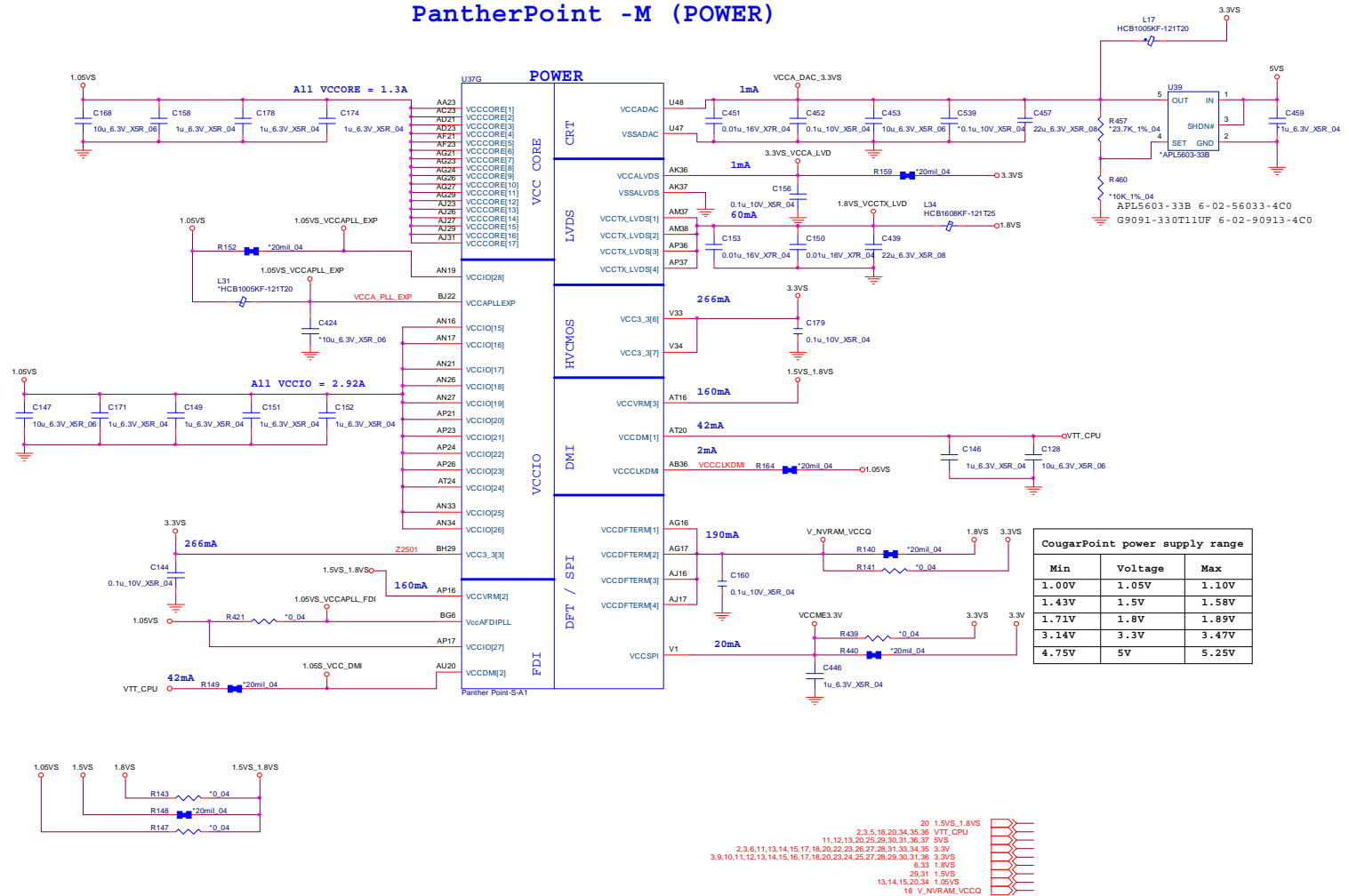


Sheet 18 of 43
 PantherPoint - M
 6/9

PantherPoint - M 7/9

Sheet 19 of 43
PantherPoint - M
7/9

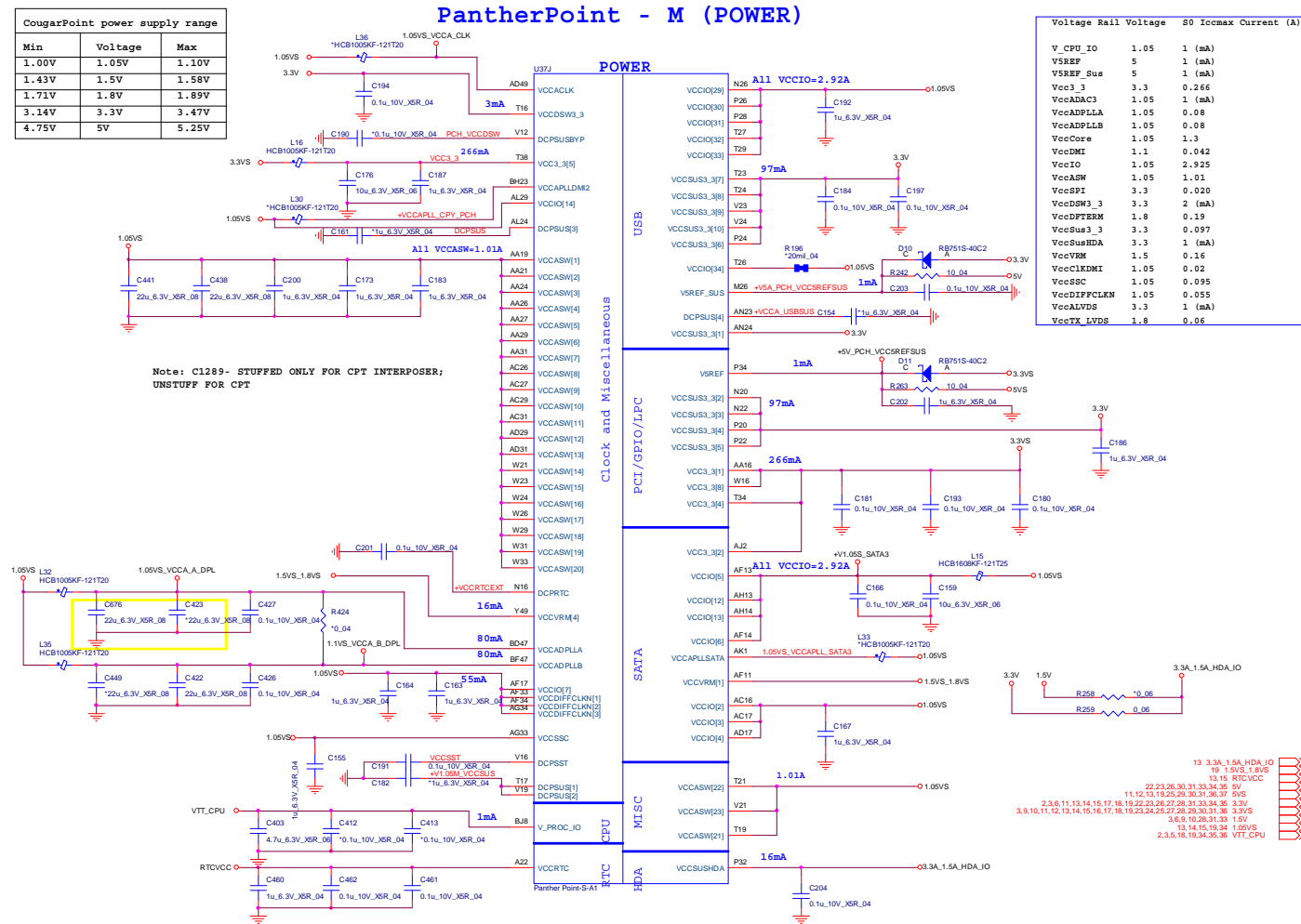
PantherPoint -M (POWER)



Min	Voltage	Max
1.00V	1.05V	1.10V
1.43V	1.5V	1.58V
1.71V	1.8V	1.89V
3.14V	3.3V	3.47V
4.75V	5V	5.25V

PantherPoint - M 8/9

CougarPoint power supply range		
Min	Voltage	Max
1.00V	1.05V	1.10V
1.43V	1.5V	1.58V
1.71V	1.8V	1.89V
3.14V	3.3V	3.47V
4.75V	5V	5.25V



Sheet 20 of 43
PantherPoint - M
8/9

B.Schematic Diagrams

PantherPoint - M 9/9

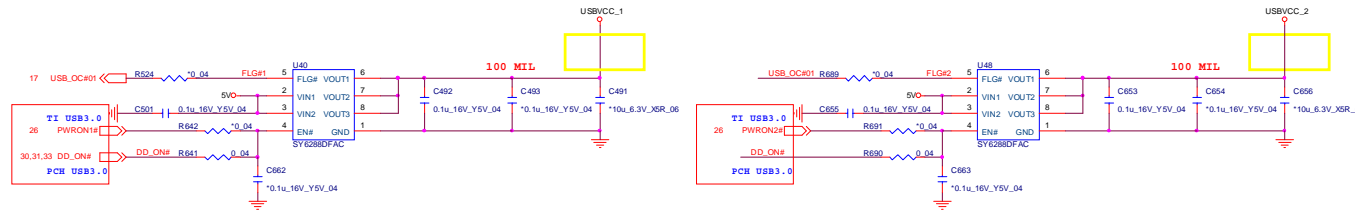
PantherPoint -M (GND)

Sheet 21 of 43
PantherPoint - M
9/9



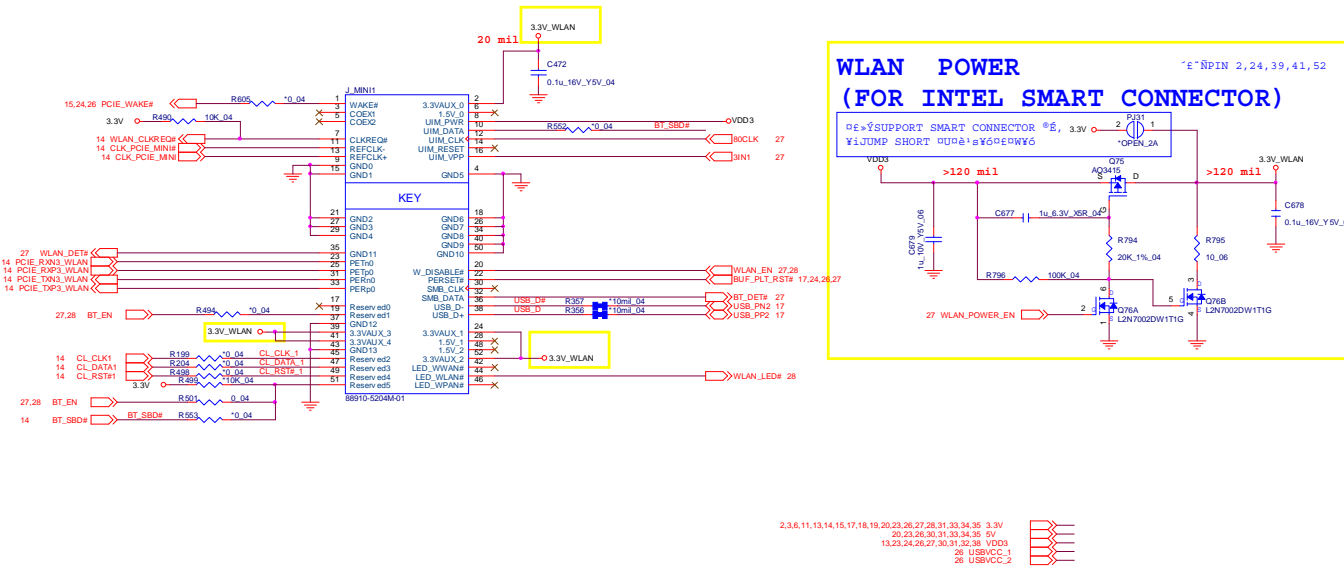
USB 3.0, Power, WLAN

USB 3.0 Power



Sheet 22 of 43
USB 3.0, Power,
WLAN

MINI CARD WLAN

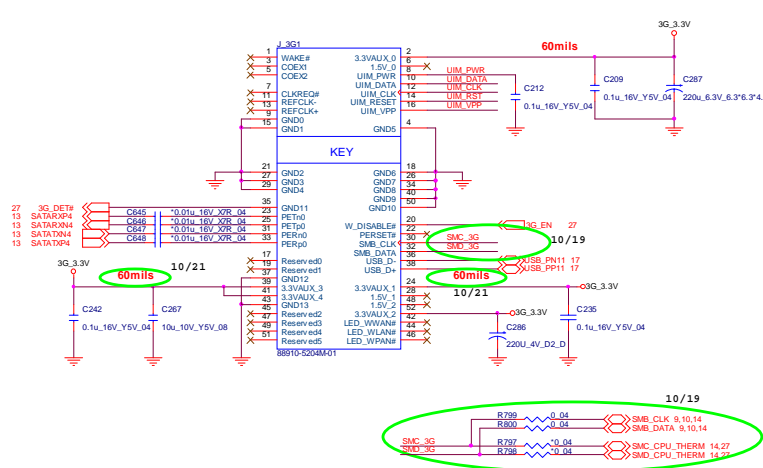


B.Schematic Diagrams

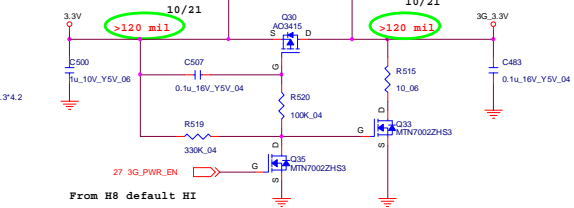
Schematic Diagrams

CCD, 3G, TPM

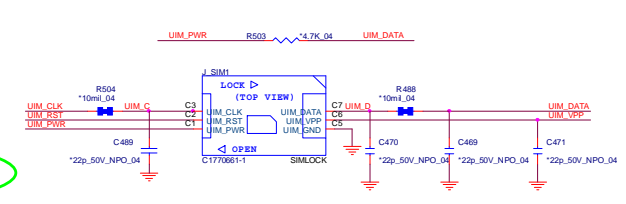
MINI CARD 3G (Port 6)



3G POWER



SIM CONN

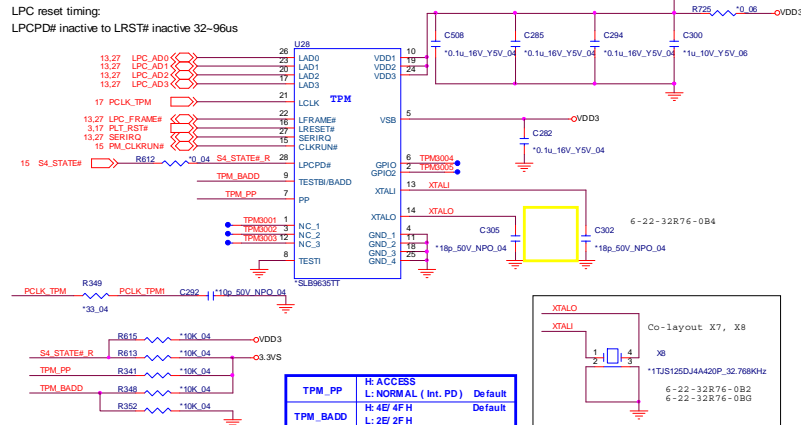


Sheet 23 of 43
CCD, 3G, TPM

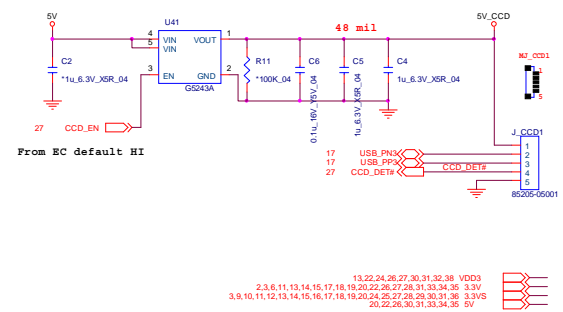
TPM 1.2

Asserted before entering S3
LPC reset timing:
LPCPD# inactive to LRST# inactive 32-96us

W/TPM #W6:
C282,C285,C294,C508,C302,C305,R348,R615,U28,X8,R214,R725

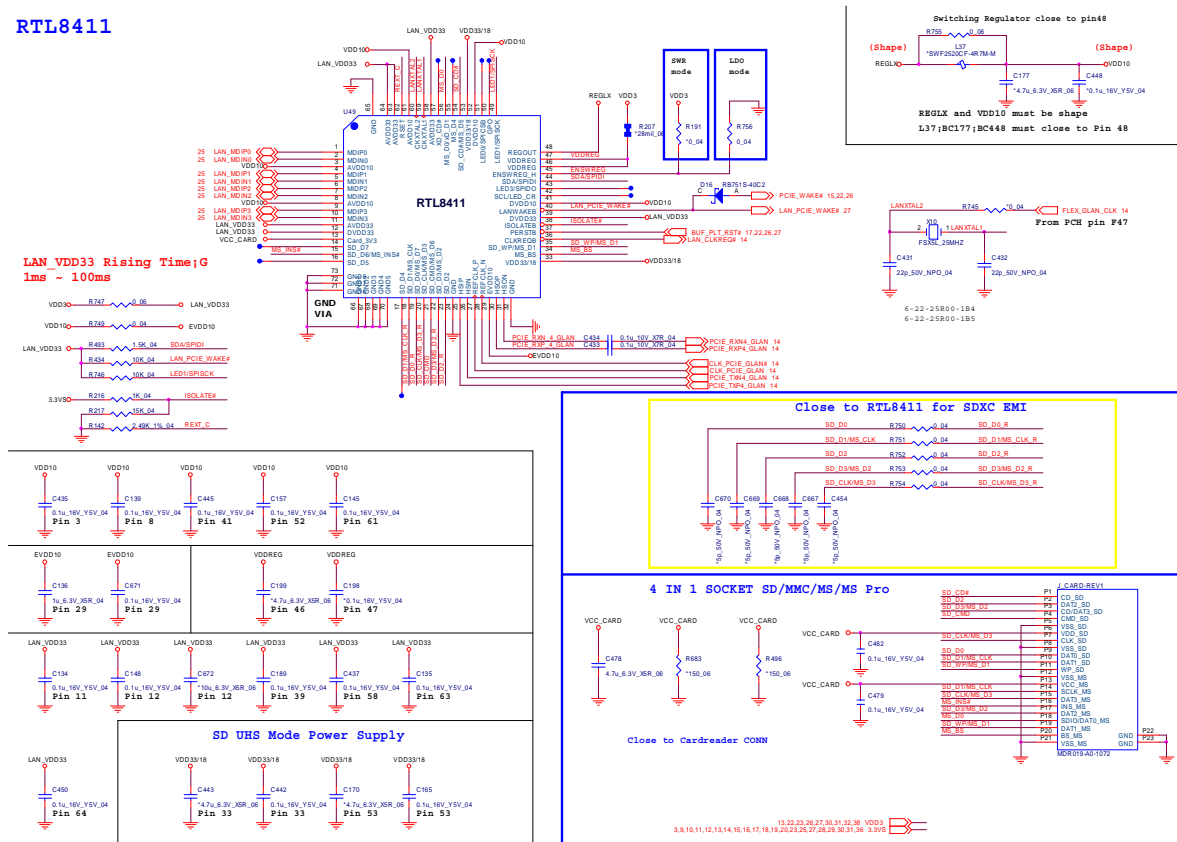


CCD



Card Reader, LAN RTL8411

RTL8411



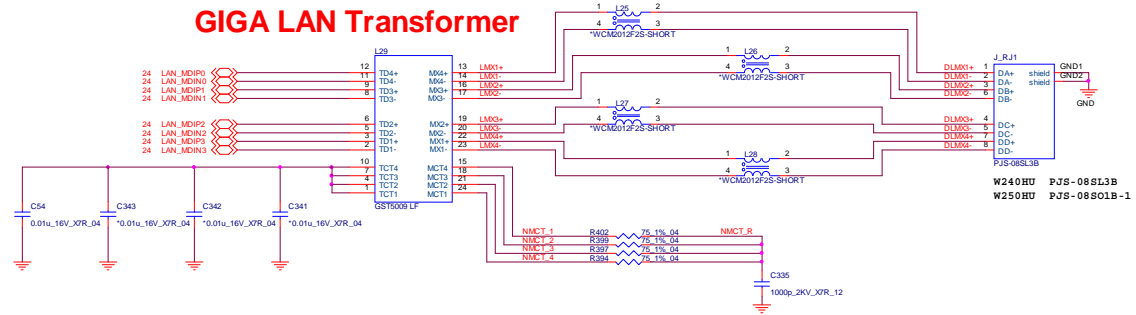
Sheet 24 of 43
Card Reader, LAN
RTL8411

B.Schematic Diagrams

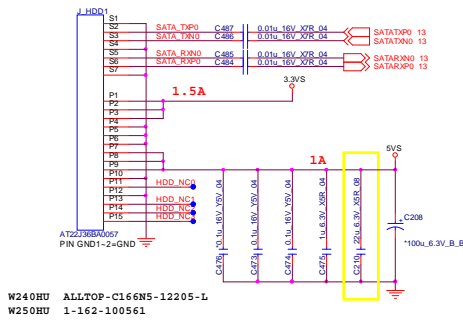
CLEVO CO. 藍天電腦

LAN (RTL8411), SATA HDD, ODD

Sheet 25 of 43
LAN(RTL8411),
SATA HDD, ODD

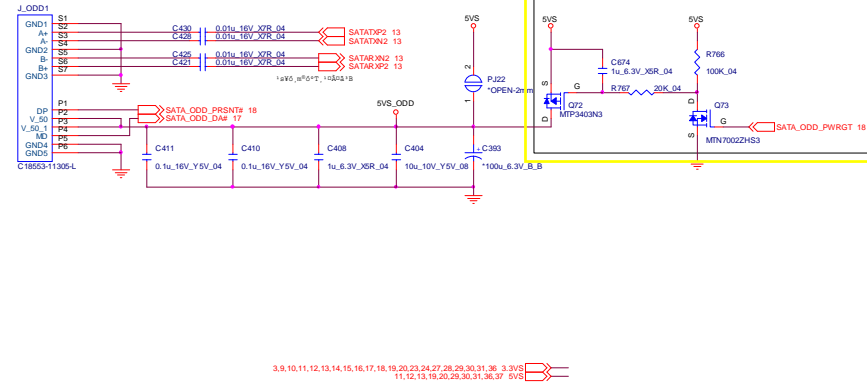


SATA HDD



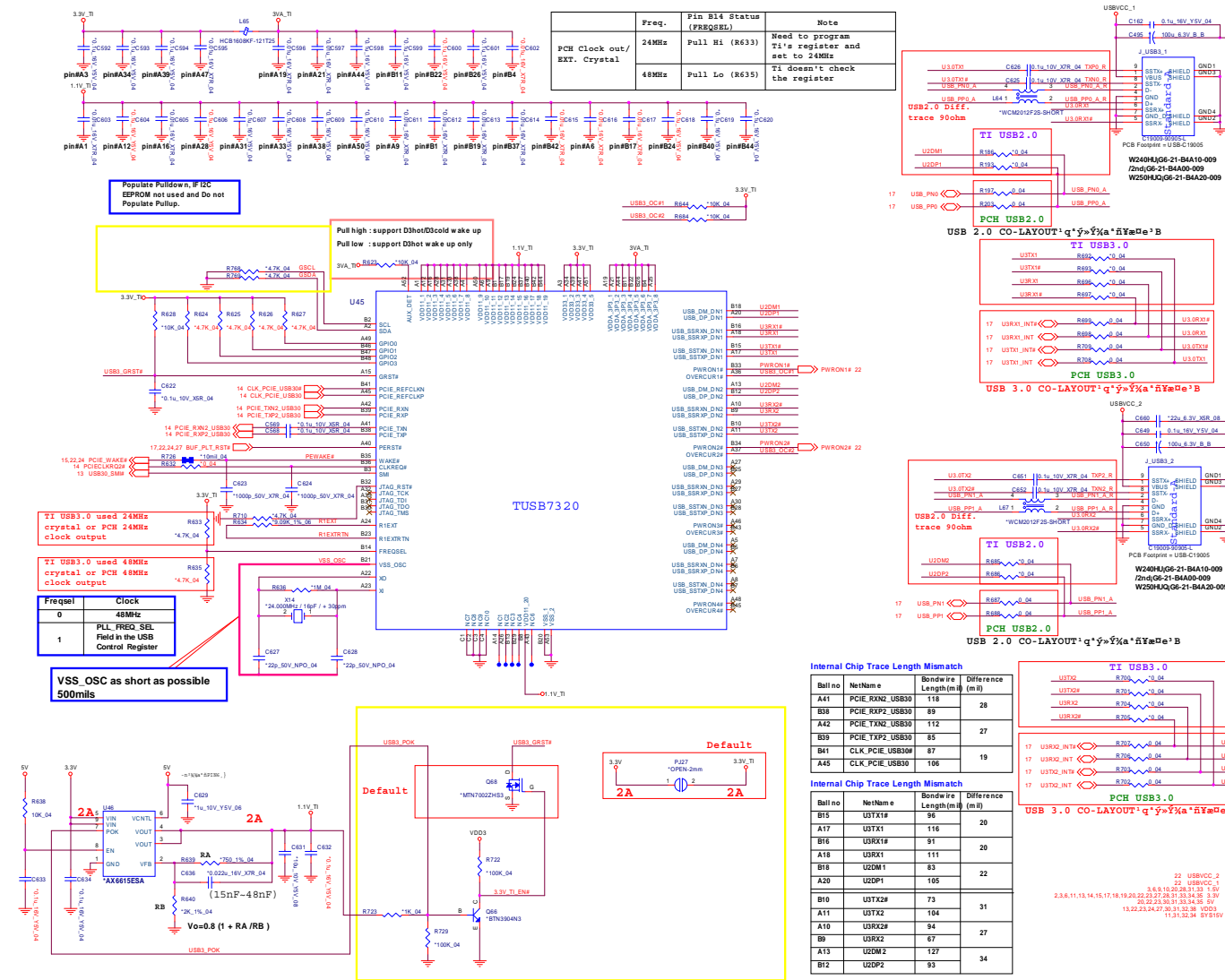
W240HU ALLTOP-C166N5-12205-L
W250HU 1-162-100561

SATA ODD



3,9, 10,11,12,13,14,15,16,17,18, 19,20,23,24,27,28,29,30,31,36 3.3VS
11,12,13,19,20,29,30,31,36,37 5VS

USB 3.0 TI TUSB7320

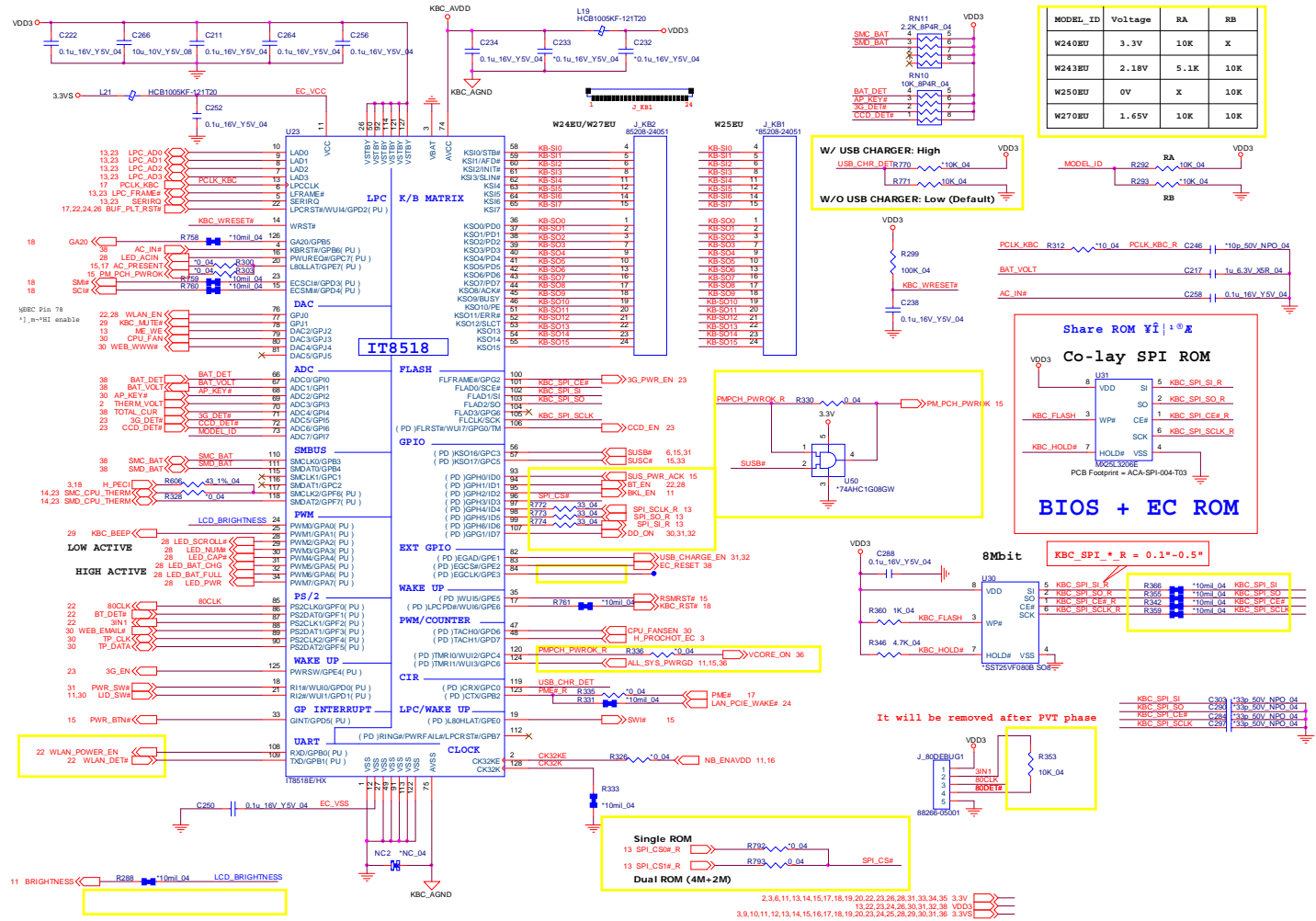


Sheet 26 of 43
USB 3.0 TI
TUSB7320

KBC-ITE IT8518

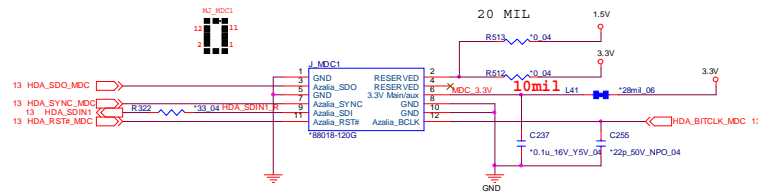
B.Schematic Diagrams

Sheet 27 of 43
KBC-ITE IT8518

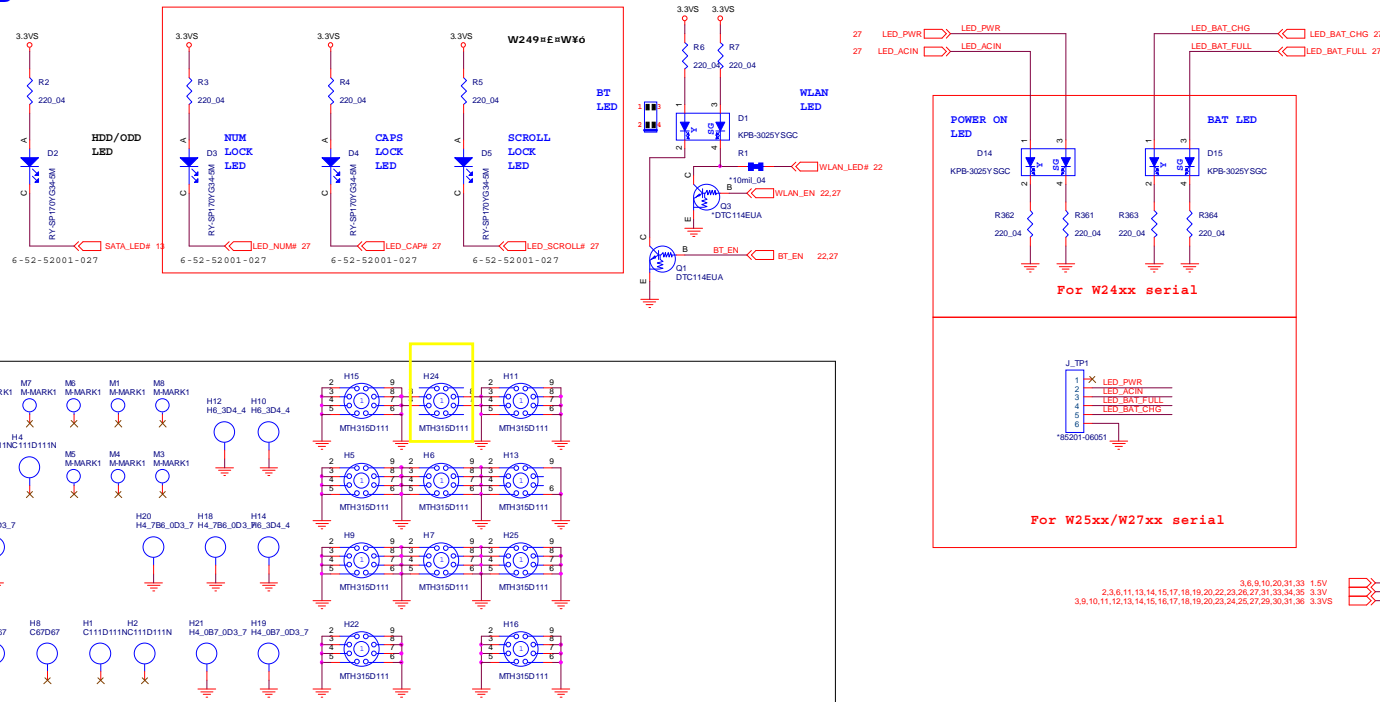


LED, MDC

MDC



LED

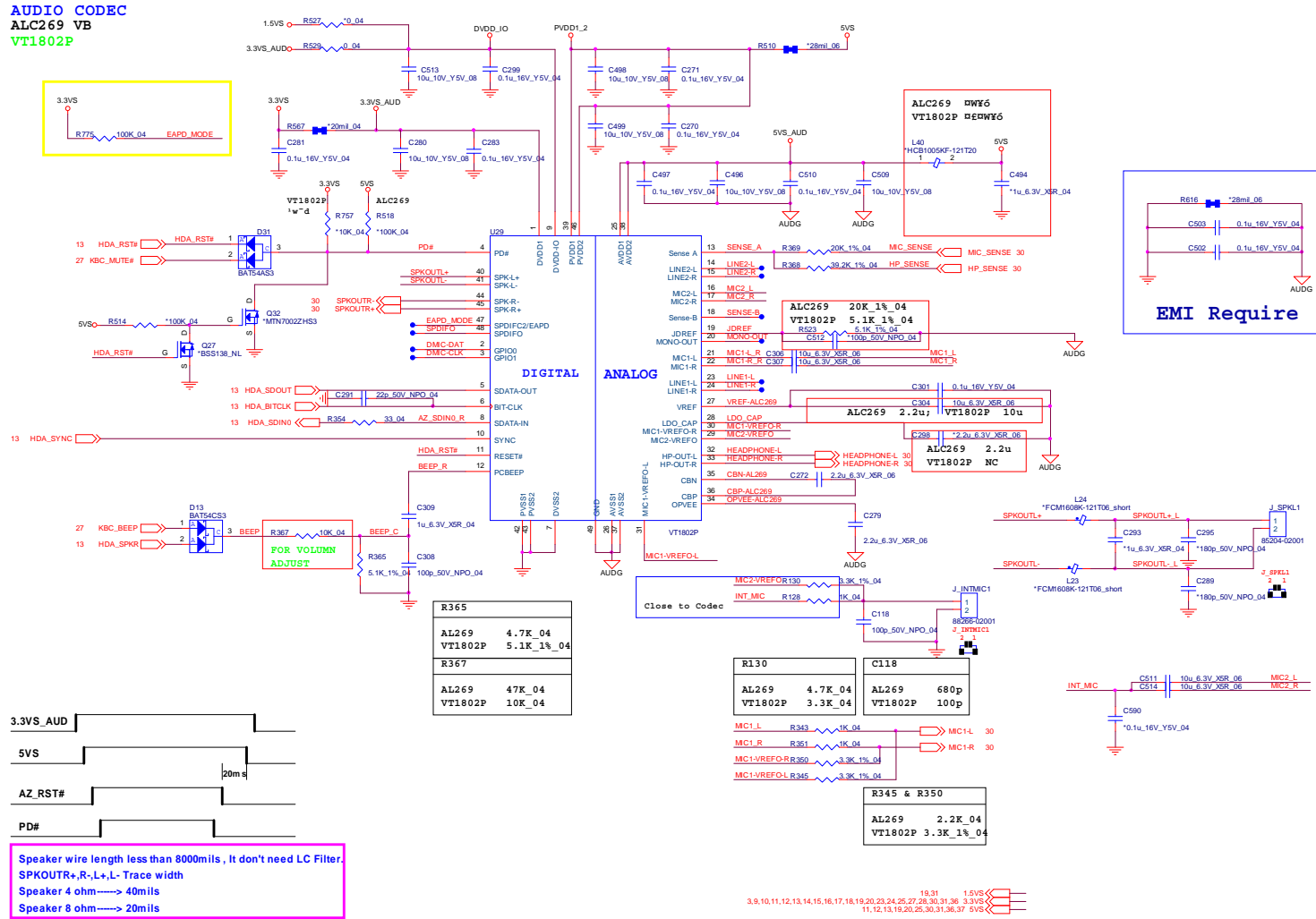


Sheet 28 of 43
LED, MDC

B.Schematic Diagrams

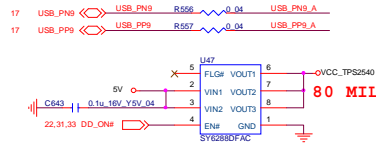
Audio Codec ALC269

Sheet 29 of 43
Audio Codec
ALC269



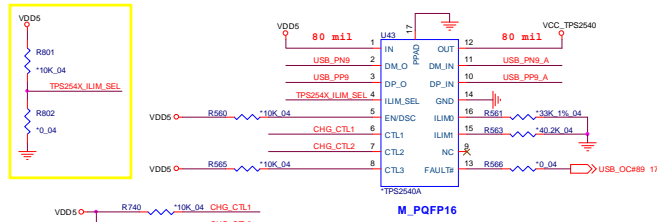
USB Charger, Fan, TP, Multi-Conn

W/O USB CHARGER



ILIM_SEL
(FOR TP82543/TP82540)
ILIM_SEL=HI, FOR TP82543
ILIM_SEL=LOW, FOR TP82540

WITH USB CHARGER

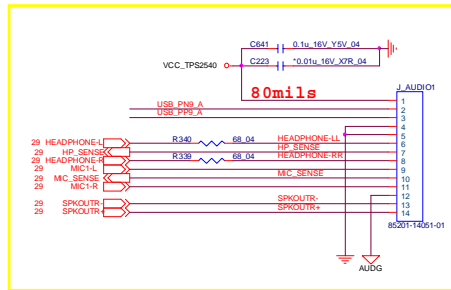


W/O USB Charger #WW6:
R556,R557,U47,C643,R771
W/ USB Charger #WW6:
U43,P065,PR225,PC221,PR227,P073,R561,R740,R741,R560,R565,R802

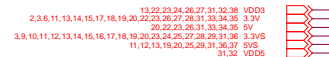
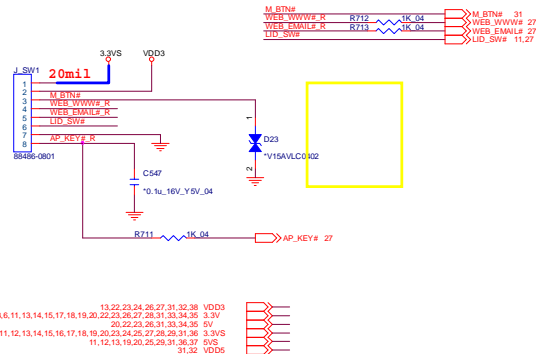
CTL1	CTL2	CTL3:	0	0	0	0	0	0	0	0
CTL1	CTL2	CTL3:	0	x	1	1	1	1	1	1

0 0 0 0 0 -> Out discharge, power switch Off
 1 1 1 1 1 -> Dedicated charging port, auto-detect
 1 1 1 1 1 -> Dedicated charging port, Divider Mode only
 1 1 1 1 1 -> Charging downstream port, BC1.2.

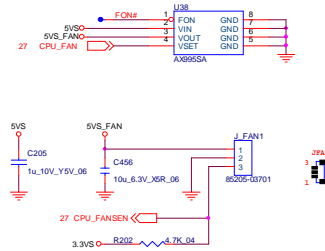
Audio B'd CONN



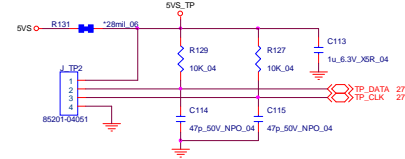
POWER SWITCH B'd CONN



FAN CONTROL

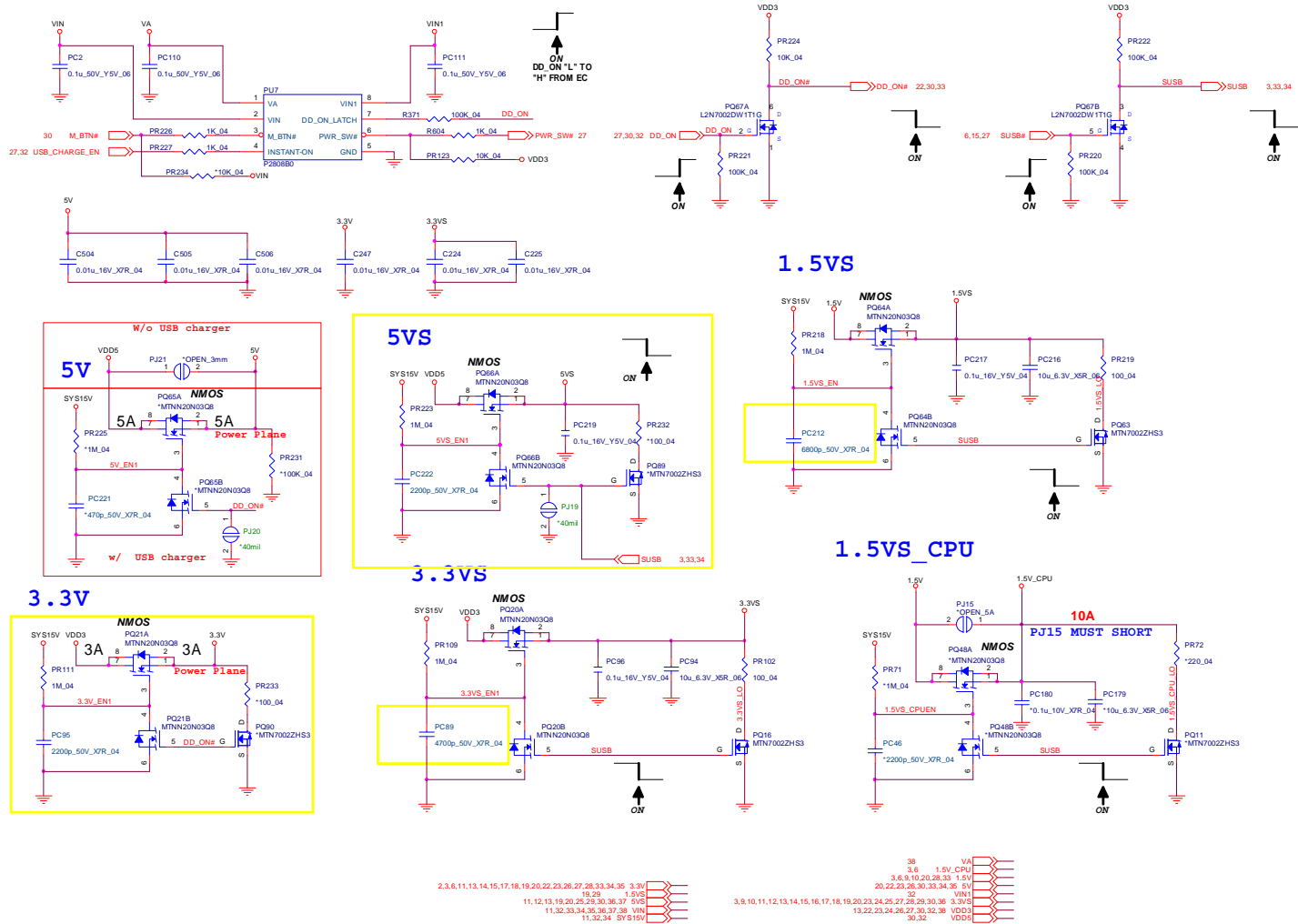


CLICK B'd CONN



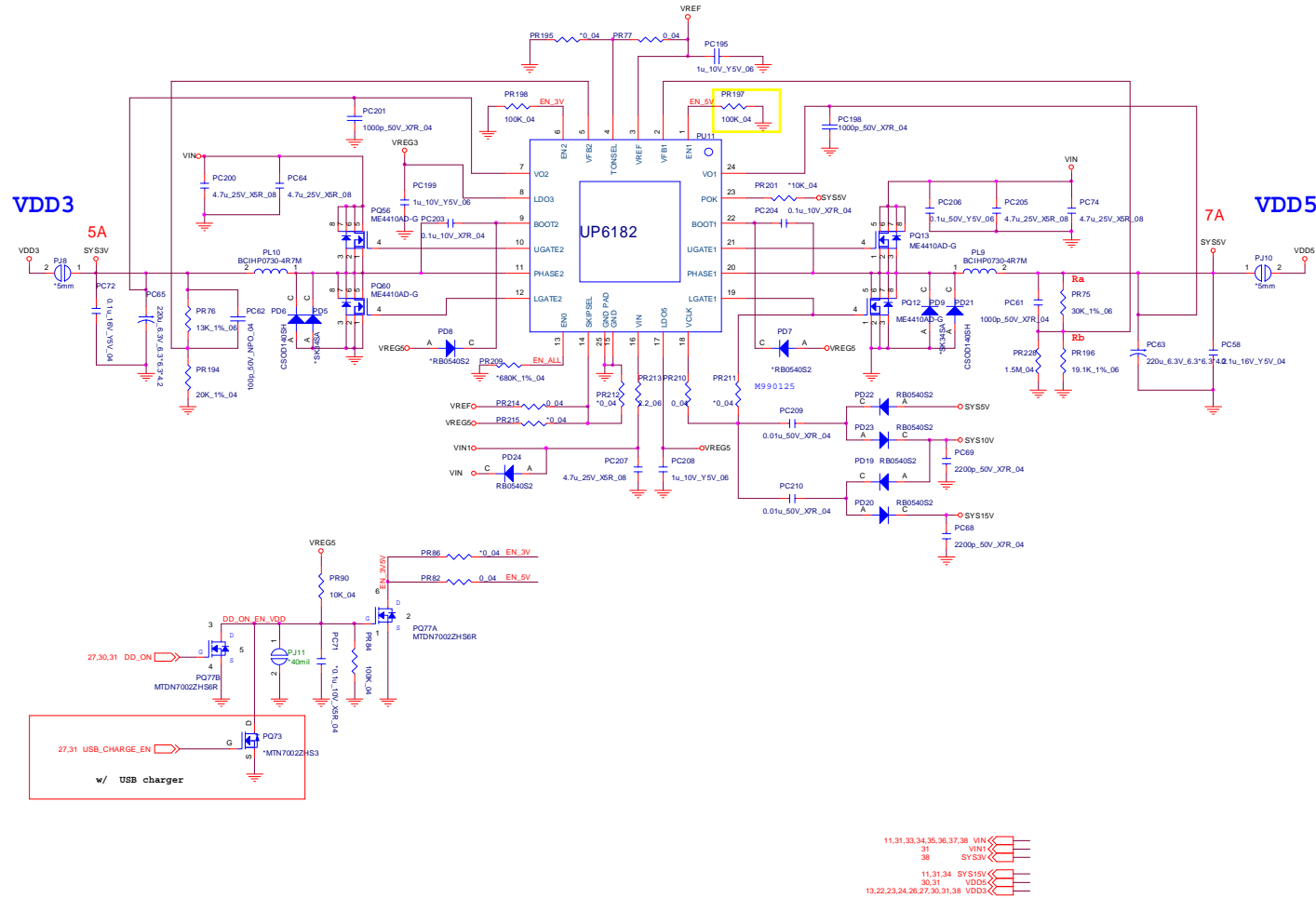
Sheet 30 of 43
USB Charger, Fan,
TP, Multi-Conn

System Power



VDD3, VDD5

VDD3/VDD5

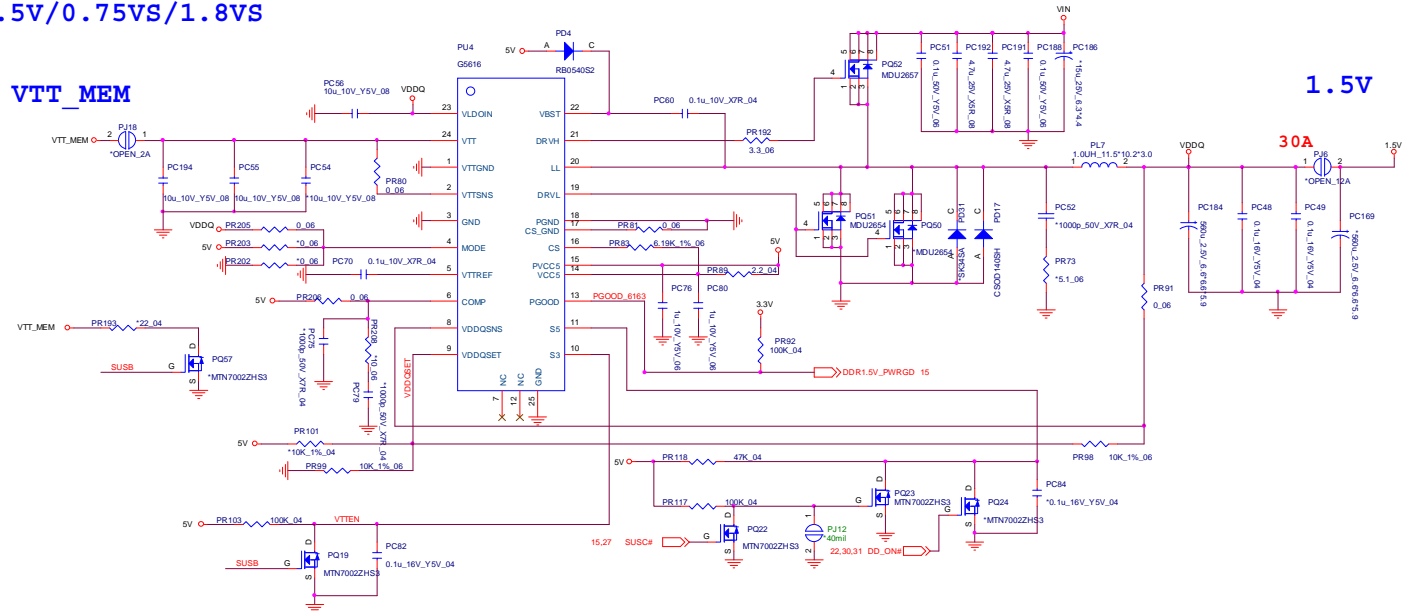


Sheet 32 of 43
VDD3, VDD5

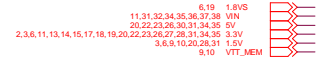
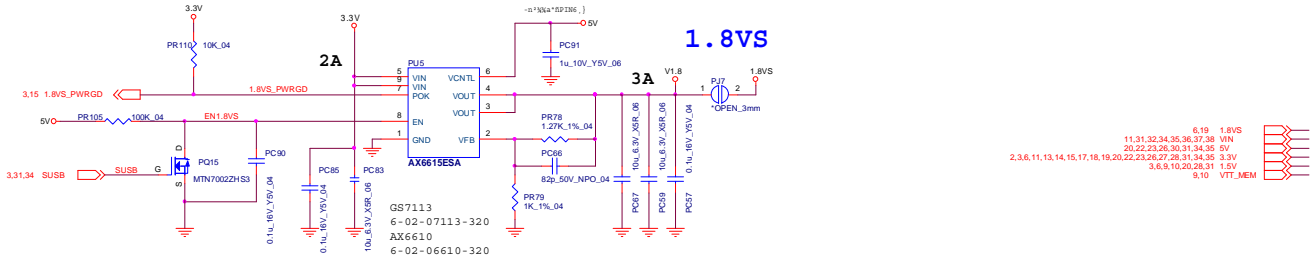
B.Schematic Diagrams

Power 1.5V/0.75V/1.8VS

1.5V/0.75VS/1.8VS



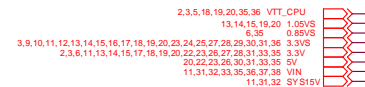
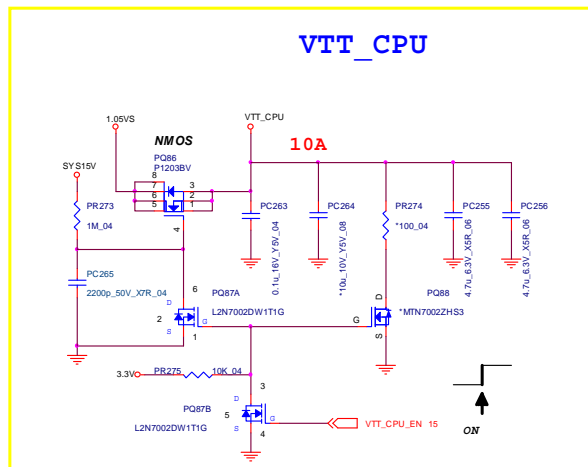
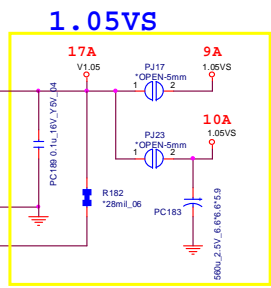
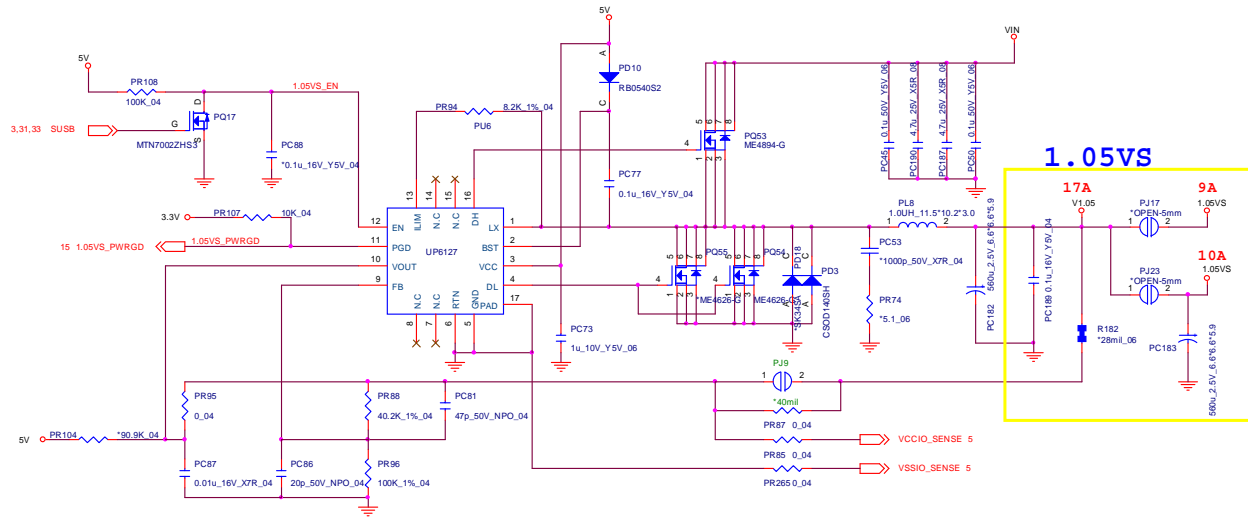
1.5V_CTRL1	1.5_CTRL0	Voltage
1	1	1.55V
1	0	1.60V
0	1	1.65V
0	0	1.70V



B.Schematic Diagrams

Sheet 33 of 43
Power 1.5V/0.75V/
1.8VS

Power 1.05VS



Sheet 34 of 43
Power 1.05VS

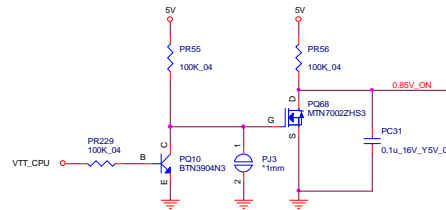
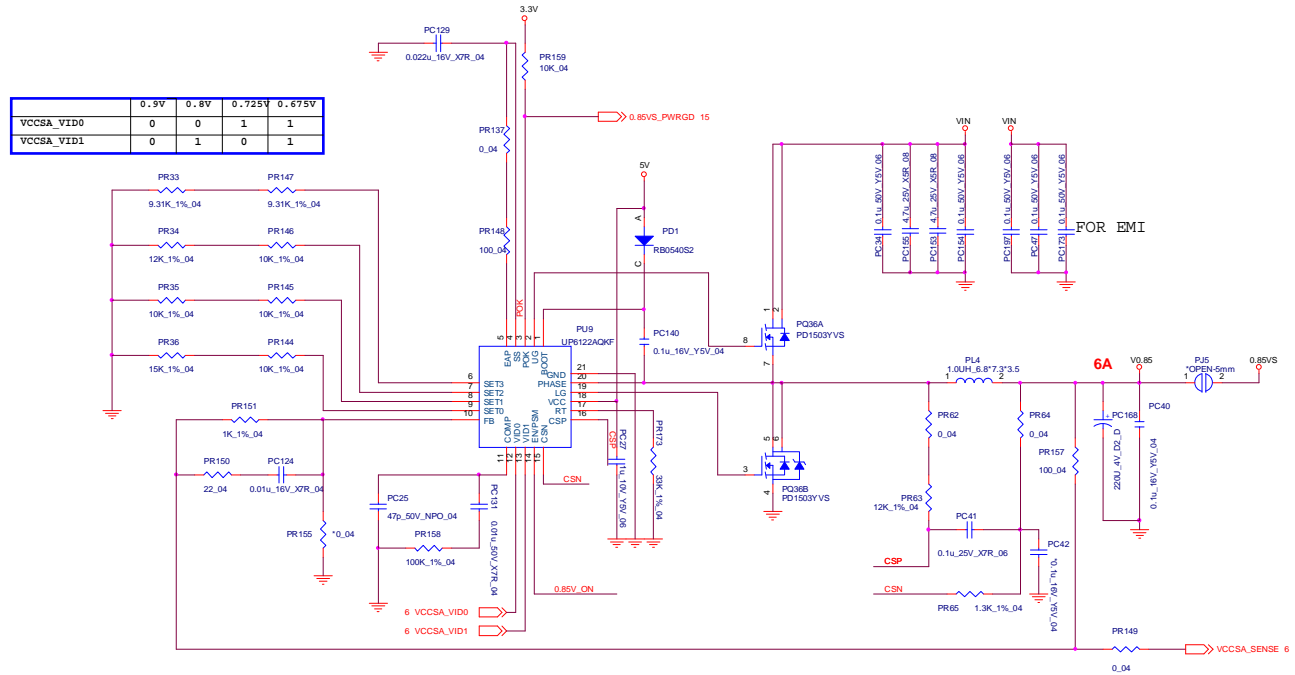
Schematic Diagrams

Power 0.85VS

0.85VS

	0.5V	0.8V	0.725V	0.675V
VCCSA_VID0	0	0	1	1
VCCSA_VID1	0	1	0	1

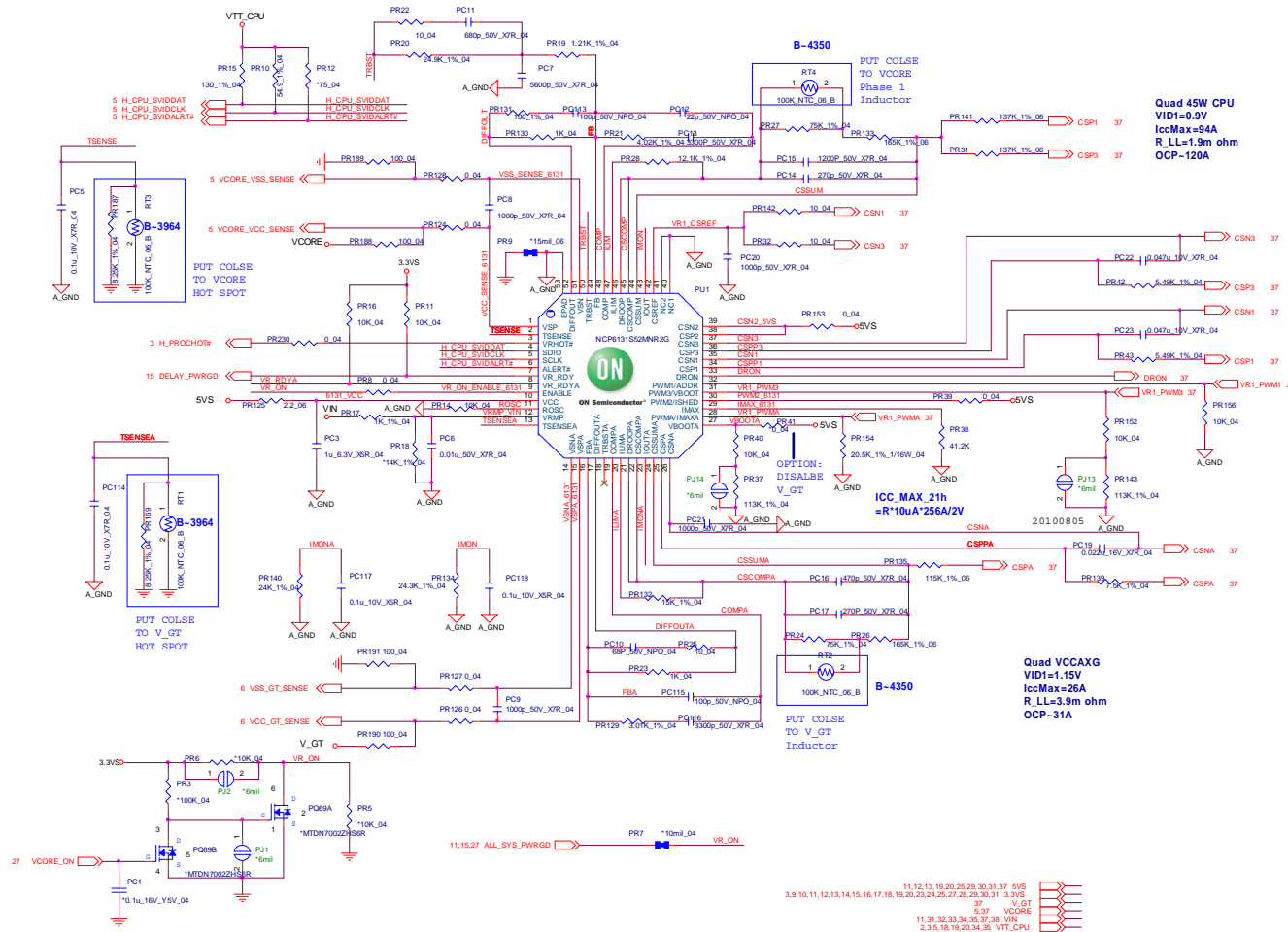
Sheet 35 of 43
Power 0.85VS



2,3,5,18,19,20,34,36 VTT_CPU
20,22,23,26,30,31,33,34 5V
6 0.85VS
11,31,32,33,34,36,37,38 VIN
2,3,6,11,13,14,15,17,18,19,20,22,23,26,27,28,31,33,34 3.3V

Power V-Core1

VCORE_1

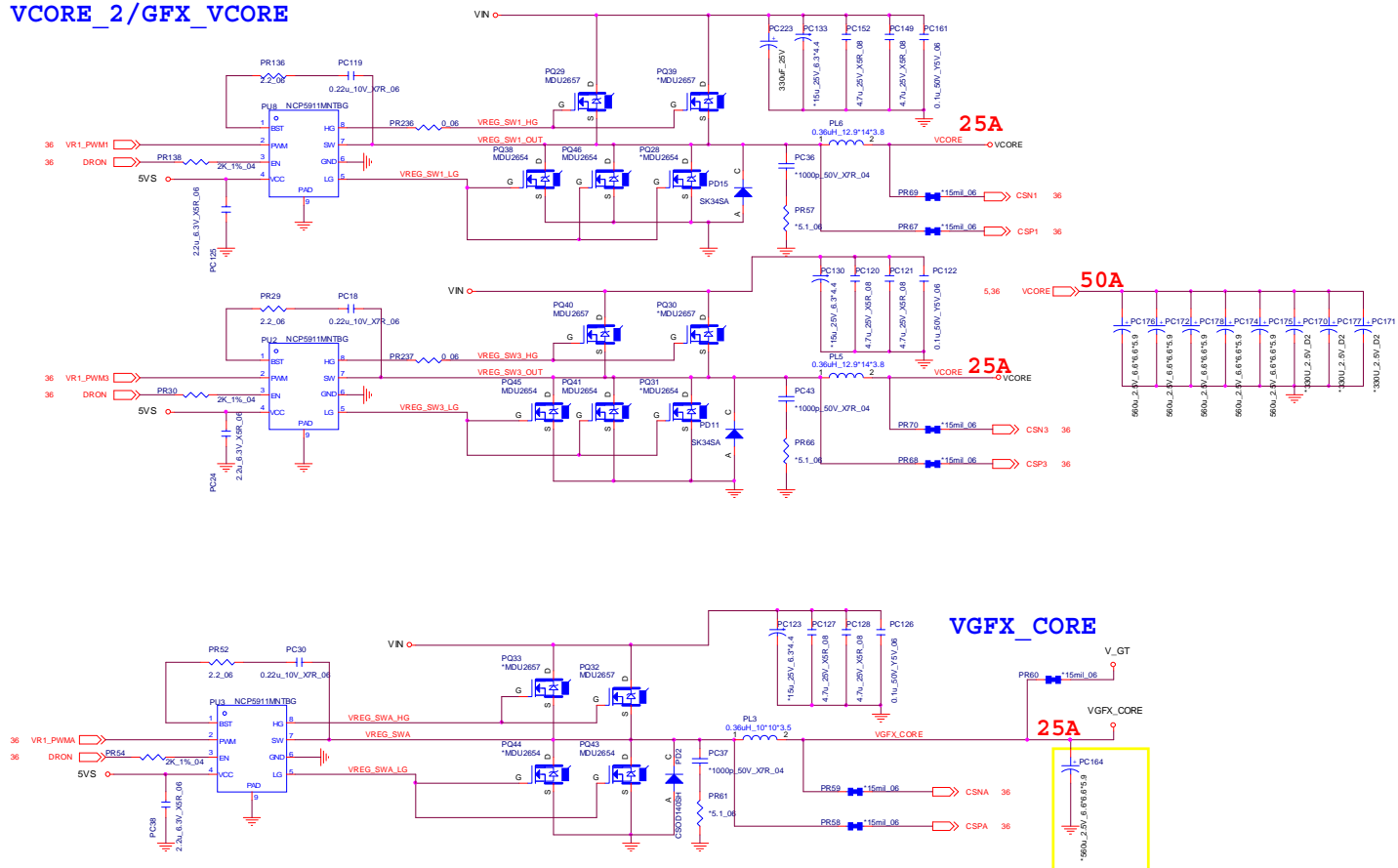


Sheet 36 of 43
Power V-Core1

B.Schematic Diagrams

Power V-Core2

VCORE_2/GFX_VCORE



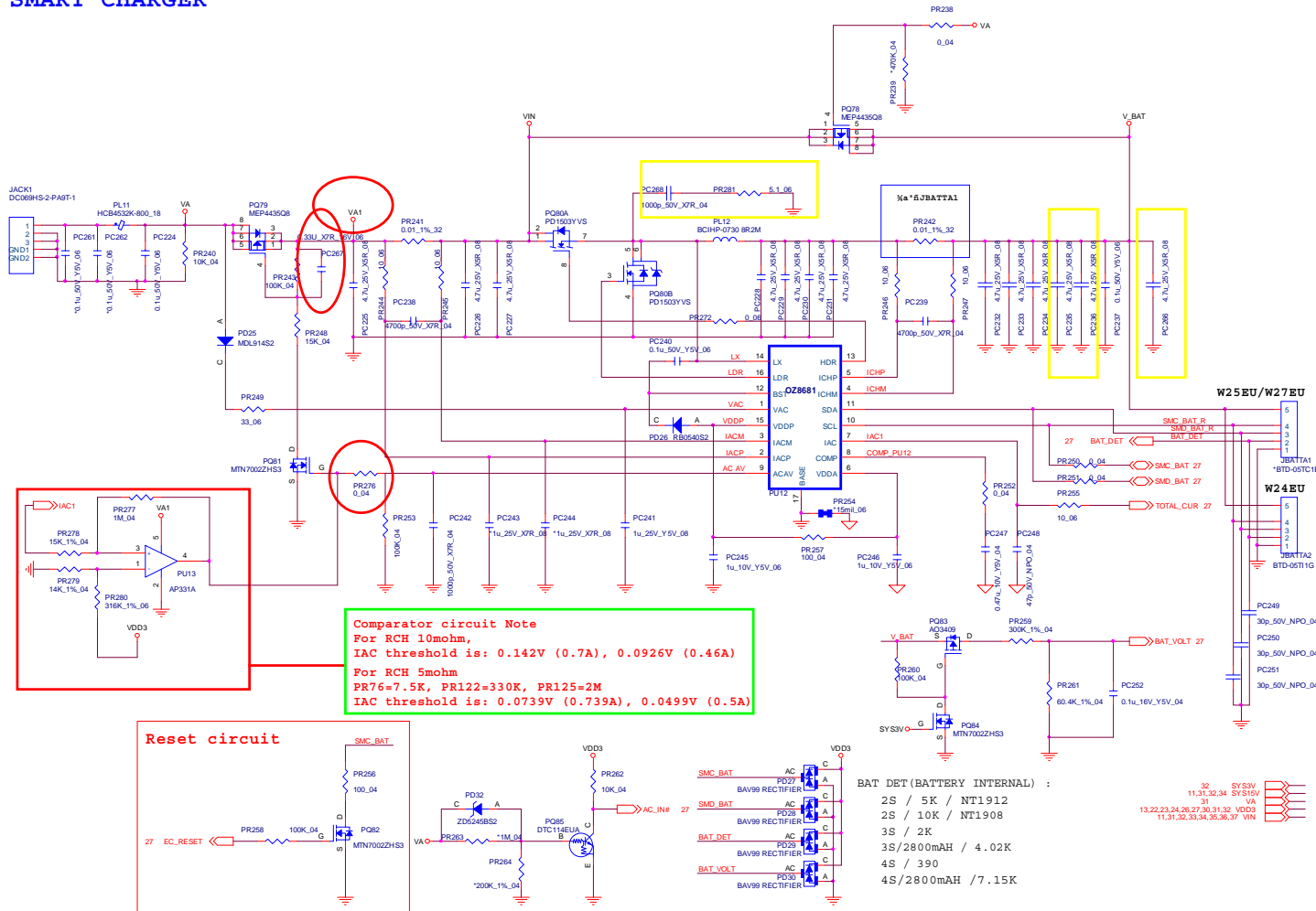
Sheet 37 of 43
Power V-Core2

B.Schematic Diagrams

- 5,36 VCORE
- 36 V_GT
- 6 VGFX_CORE
- 11,31,32,33,34,35,36,38 VIN
- 11,12,13,19,20,25,29,30,31,36 SVS

Charger, AC In

SMART CHARGER



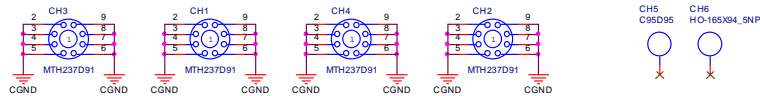
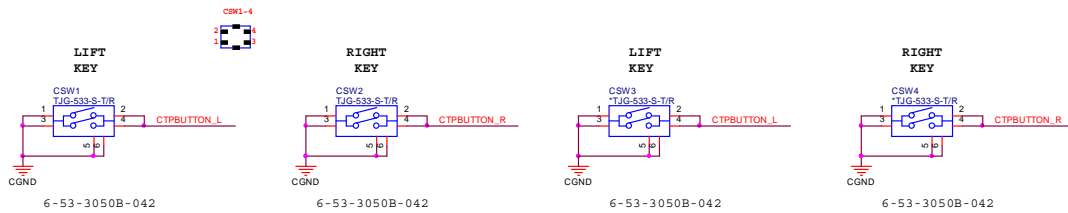
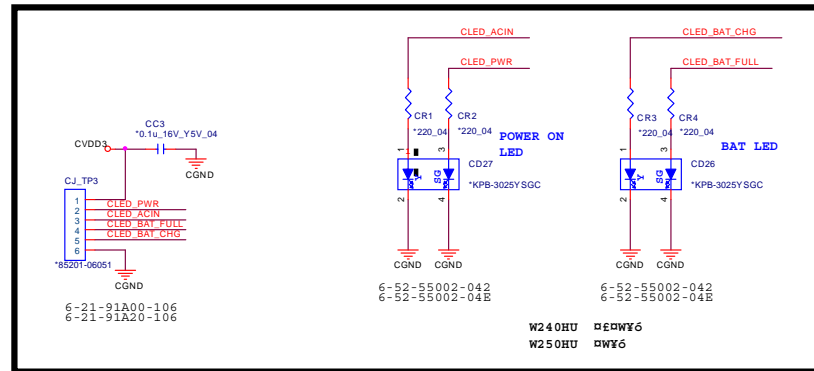
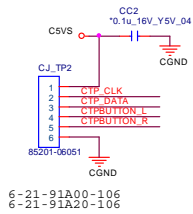
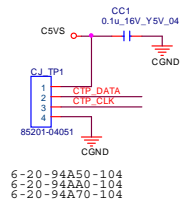
Sheet 38 of 43
Charger, AC In

B.Schematic Diagrams

Click Board

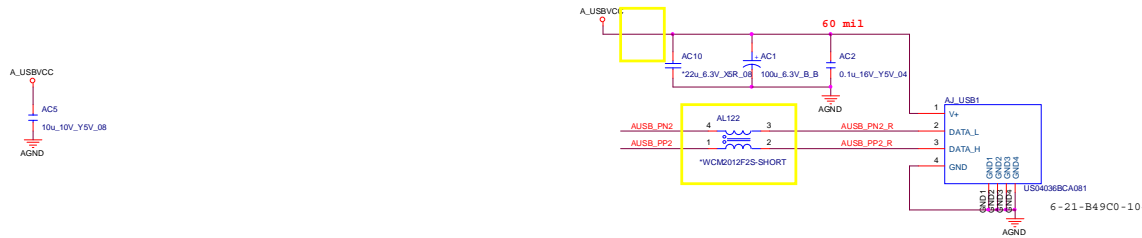
Sheet 39 of 43
Click Board

CLICK BOARD

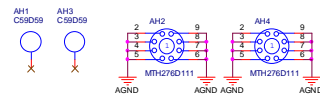
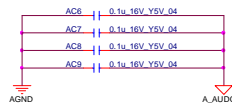
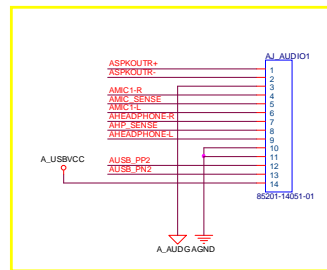


Audio Board/USB

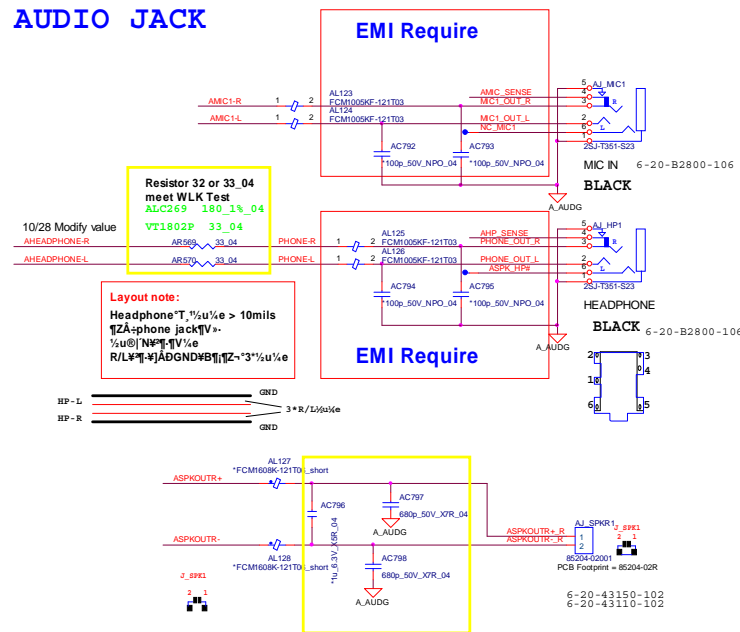
USB PORT



TO M/B



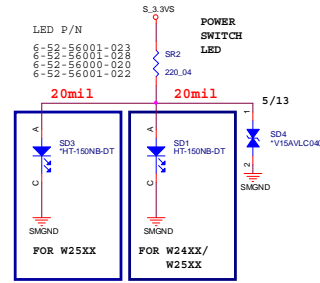
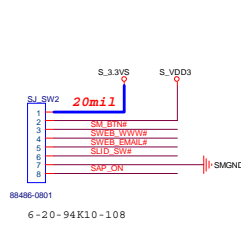
AUDIO JACK



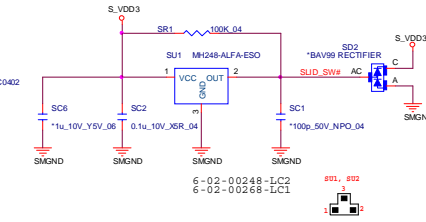
Sheet 40 of 43
Audio Board/USB

Power Switch & LID Board

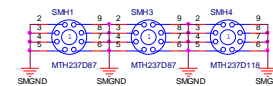
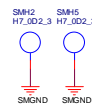
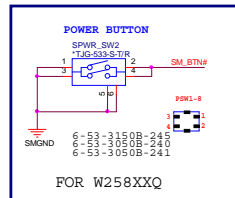
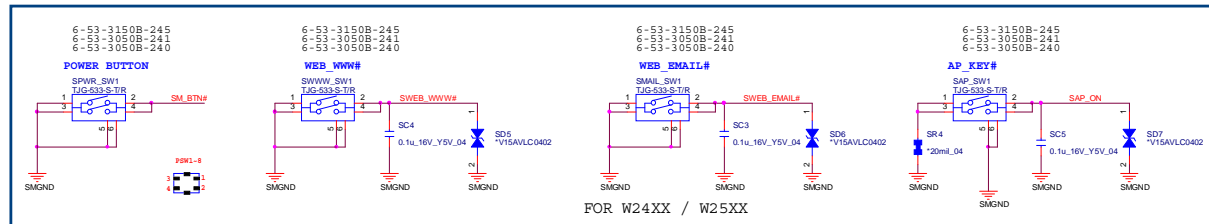
POWER SW & LED & HOT KEY



LID SWITCH IC



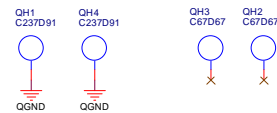
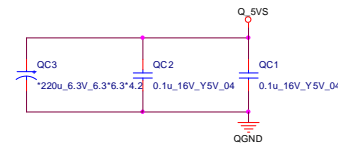
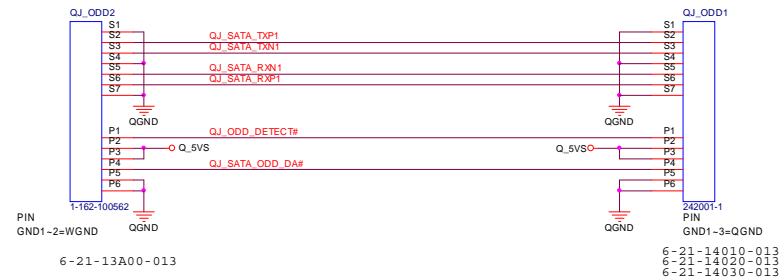
HOT KEY



Sheet 41 of 43
Power Switch & LID Board

External ODD Board

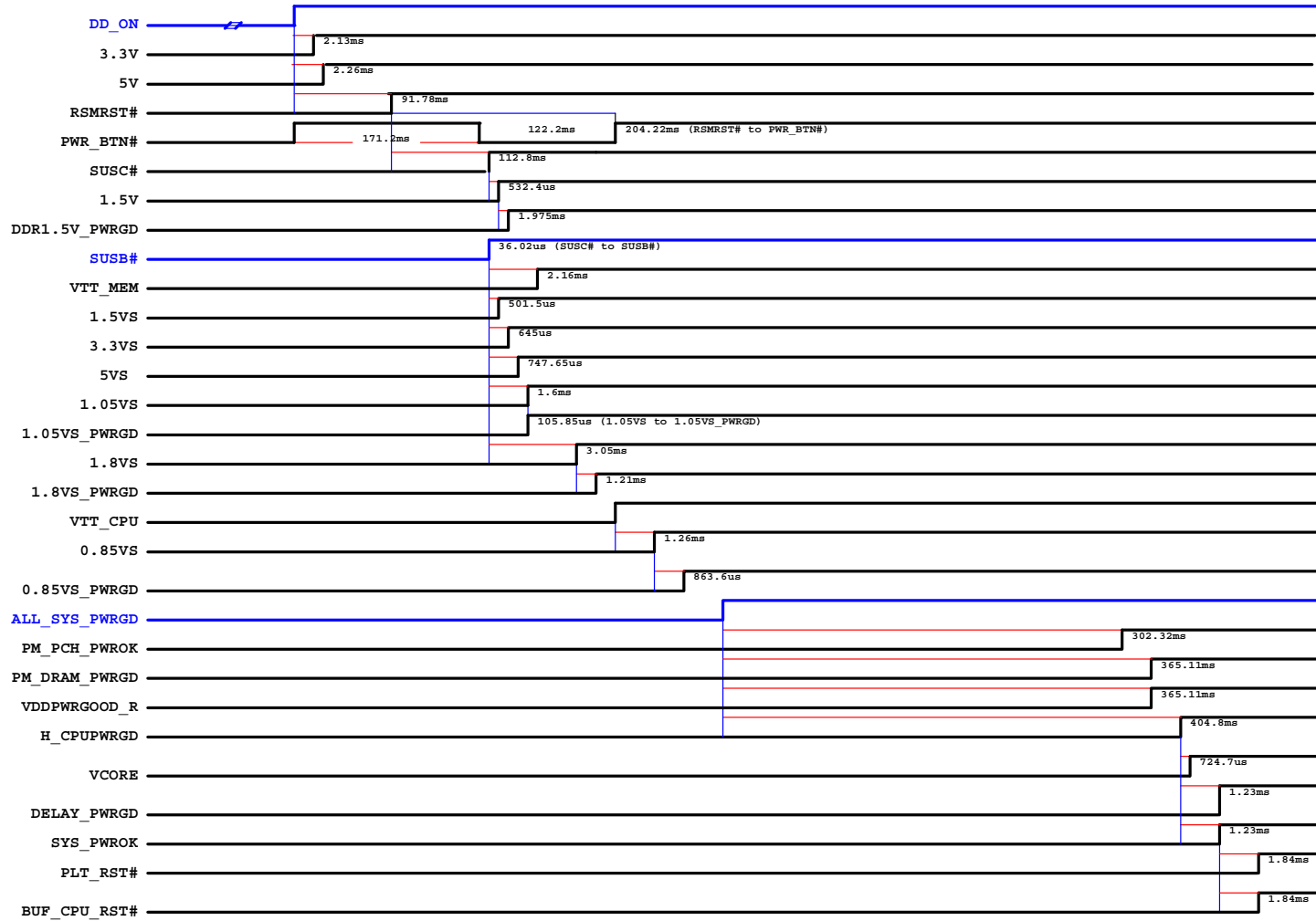
ODD BOARD FOR E5120Q



Sheet 42 of 43
External ODD
Board

Power Sequence

W24xEUQ/W25xEUQ-D02 POWER ON SEQUENCE



Sheet 43 of 43
Power Sequence

Appendix C: Updating the FLASH ROM BIOS

To update the FLASH ROM BIOS, you must:

- Download the BIOS update from the web site.
- Unzip the files onto a bootable CD/DVD/USB Flash Drive.
- Reboot your computer from an external CD/DVD/USB Flash Drive.
- Use the flash tools to update the flash BIOS using the commands indicated below.
- Restart the computer booting from the HDD and press **F2** at startup enter the BIOS.
- Load setup defaults from the BIOS and save the default settings and exit the BIOS to restart the computer.
- After rebooting the computer you may restart the computer again and make any required changes to the default BIOS settings.

Download the BIOS

1. Go to www.clevo.com.tw and point to **E-Services** and click **E-Channel**.
2. Use your user ID and password to access the appropriate download area (BIOS), and download the latest BIOS files (the BIOS file will be contained in a batch file that may be run directly once unzipped) for your computer model (see sidebar for important information on BIOS versions).

Unzip the downloaded files to a bootable CD/DVD/ or USB Flash drive

1. Insert a bootable CD/DVD/USB flash drive into the CD/DVD drive/USB port of the computer containing the downloaded files.
2. Use a tool such as Winzip or Winrar to unzip all the BIOS files and refresh tools to your bootable CD/DVD/USB flash drive (you may need to create a bootable CD/DVD with the files using a 3rd party software).

Set the computer to boot from the external drive

1. With the bootable CD/DVD/USB flash drive containing the BIOS files in your CD/DVD drive/USB port, restart the computer and press **F2** (in most cases) to enter the BIOS.
2. Use the arrow keys to highlight the **Boot** menu.
3. Use the “+” and “-” keys to move boot devices up and down the priority order.
4. Make sure that the CD/DVD drive/USB flash drive is set first in the boot priority of the BIOS.
5. Press **F4** to save any changes you have made and exit the BIOS to restart the computer.



BIOS Version

Make sure you download the latest correct version of the BIOS appropriate for the computer model you are working on.

You should only download BIOS versions that are **V1.01.XX or higher** as appropriate for your computer model.

Note that BIOS versions are not backward compatible and therefore you may not downgrade your BIOS to an older version after upgrading to a later version (e.g if you upgrade a BIOS to ver 1.01.05, you **MAY NOT** then go back and flash the BIOS to ver 1.01.04).

BIOS Update

Use the flash tools to update the BIOS

1. Make sure you are not loading any memory management programs such as HIMEM by holding the **F8** key as you see the message “**Starting MS-DOS**”. You will then be prompted to give “**Y**” or “**N**” responses to the programs being loaded by DOS. Choose “**N**” for any memory management programs.
2. You should now be at the DOS prompt e.g: DISK C:\> (C is the designated drive letter for the CD/DVD drive/USB flash drive).
3. **Type the following command** at the DOS prompt:

C:\> Flash.bat

4. The utility will then proceed to flash the BIOS.
5. You should then be prompted to press any key to restart the system or turn the power off, and then on again but make sure you remove the CD/DVD/USB flash drive from the CD/DVD drive/USB port before the computer restarts.

Restart the computer (booting from the HDD)

1. With the CD/DVD/USB flash drive removed from the CD/DVD drive/USB port the computer should restart from the HDD.
2. Press **F2** as the computer restarts to enter the BIOS.
3. Use the arrow keys to highlight the **Exit** menu.
4. Select **Load Setup Defaults** (or press **F3**) and select “**Yes**” to confirm the selection.
5. Press **F4** to save any changes you have made and exit the BIOS to restart the computer.

Your computer is now running normally with the updated BIOS

You may now enter the BIOS and make any changes you require to the default settings.