

SERVICE MANUAL

N750BU

notebook



Notebook Computer

N750BU

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 *N750BU* 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

Preface

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, 2.1A (**40 Watts**) 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.

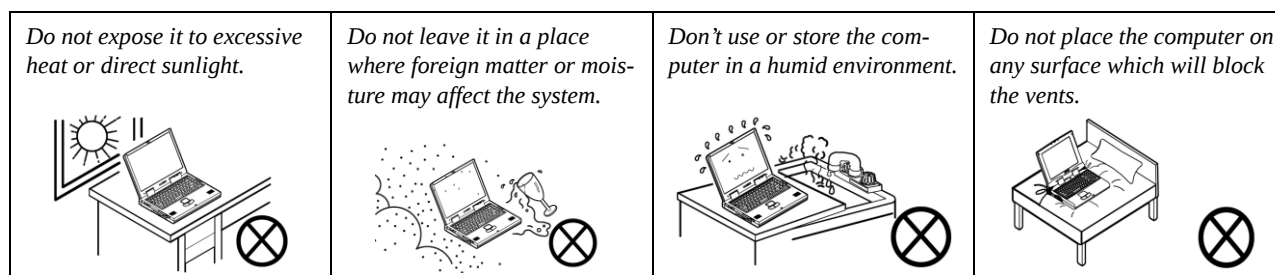
Instructions for Care and Operation

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.

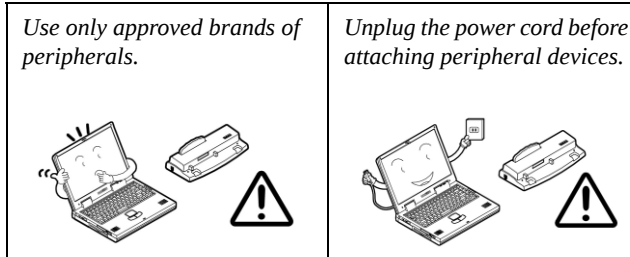


3. **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.



Preface

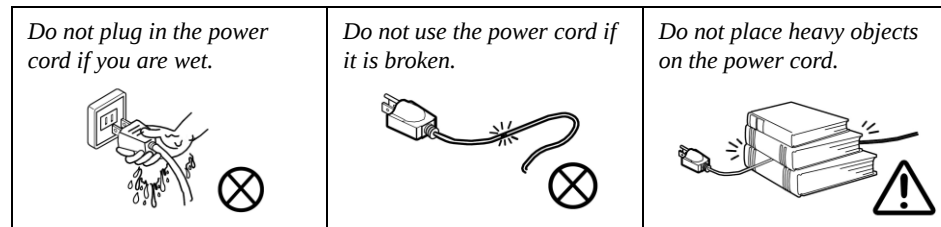
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



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 and power cord). 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.

Preface

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 on the left 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".

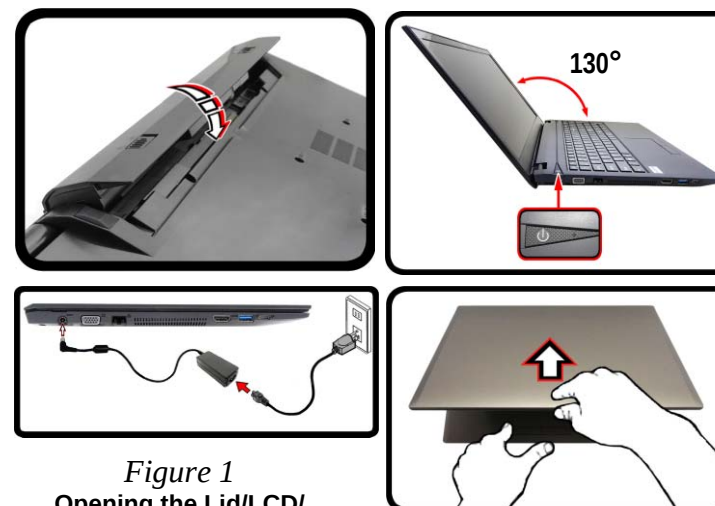


Figure 1
**Opening the Lid/LCD/
Computer with AC/DC
Adapter Plugged-In**



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.

Contents

Introduction1-1

Overview	1-1
Specifications	1-2
External Locator - Top View with LCD Panel Open	1-4
External Locator - Front & Right Side Views	1-5
External Locator - Left Side & Rear View	1-6
External Locator - Bottom View	1-7
Mainboard Overview - Top (Key Parts)	1-8
Mainboard Overview - Bottom (Key Parts)	1-9
Mainboard Overview - Top (Connectors)	1-10
Mainboard Overview - Bottom (Connectors)	1-11

Disassembly2-1

Overview	2-1
Maintenance Tools	2-2
Connections	2-2
Maintenance Precautions	2-3
Disassembly Steps	2-4
Removing the Battery	2-5
Removing the Keyboard	2-6
Removing the Hard Disk Drive	2-7
Removing the 2nd Hard Disk from Caddy Bay	2-9
Removing the Optical (CD/DVD) Device	2-10
Removing the System Memory (RAM)	2-11
Removing the Wireless LAN Module	2-13
Wireless LAN and Combo Module Cables	2-14
Removing the 3G Module	2-15
Removing and Installing the M.2 SSD Module	2-16
Removing the CCD	2-18

Part ListsA-1

Part List Illustration Location	A-2
Top	A-3
Bottom	A-4
LCD	A-5
HDD	A-6
HDD Caddy	A-7
DVD	A-8
MB	A-9

Schematic Diagrams.....B-1

System Block Diagram	B-2
Processor 1/11	B-3
Processor 2/11	B-4
Processor 3/11	B-5
Processor 4/11	B-6
Processor 5/11	B-7
Processor 6/11	B-8
Processor 7/11	B-9
Processor 8/11	B-10
Processor 9/11	B-11
Processor 10/11	B-12
Processor 11/11	B-13
DDR4 SO-DIMM_0	B-14
DDR4 SO-DIMM_1	B-15
Panel, Inverter	B-16
VGA RTD2168	B-17
Card Reader & LAN RTL8411B	B-18
HDMI, RJ45, Fan, TPM	B-19
M.2 (WLAN, 3G, SSD)	B-20
Audio Codec	B-21
ASM1142	B-22

Preface

ASM 1142 Power	B-23
USB	B-24
CCD, MIC, LID, I/O Connector	B-25
HDD, ODD, LED	B-26
KBC ITE IT8587	B-27
3V, 5V, 3VS, 5VS, CTL Signal	B-28
VDD3, VDD5	B-29
VDDQ_VTT, 1.8VA	B-30
1.0V Series	B-31
RT3601BC	B-32
VCORE, VCCGT, VCCSA, VCCIO	B-33
Charger, DC-In	B-34
LID SW Board	B-35
Audio Board	B-36
Click Board	B-37
Caddy Bay Board	B-38
Option BOM List	B-39

Updating the FLASH ROM BIOS..... C-1

Download the BIOS	C-1
Unzip the downloaded files to a bootable CD/DVD/ or USB Flash drive	C-1
Set the computer to boot from the external drive	C-1
Use the flash tools to update the BIOS	C-2
Restart the computer (booting from the HDD)	C-2

Chapter 1: Introduction

Overview

This manual covers the information you need to service or upgrade the **N750BU** 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 10*, 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 **N750BU** 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 Options

Intel® Core™ i7 Processor

i7-7500U (2.70GHz)

4MB Smart Cache, **14nm**, DDR4-2133MHz, TDP 15W

Intel® Core™ i5 Processor

i5-7200U (2.50GHz)

3MB Smart Cache, **14nm**, DDR4-2133MHz, TDP 15W

Intel® Core™ i3 Processor

i3-7100U (2.40GHz)

3MB Smart Cache, **14nm**, DDR4-2133MHz, TDP 15W

Intel® Pentium® Processor

4415U (2.30GHz)

2MB Smart Cache, **14nm**, DDR4-2133MHz, TDP 15W

Intel® Celeron® Processor

3965U (2.20GHz), 3865U (1.80GHz)

2MB Smart Cache, **14nm**, DDR4-2133MHz, TDP 15W

BIOS

64Mb SPI Flash ROM

AMI BIOS

Memory

Two 260 Pin SO-DIMM Sockets Supporting **DDR4 2133 MHz** Memory

Memory Expandable up to 32GB

Compatible with 4GB, 8GB or 16GB Modules

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

LCD Options

15.6" (39.62cm), 16:9, HD (1366x768)/FHD (1920x1080)
(Thickness: 3.2mm)

Video Adapter

Intel HD Graphics 620 (i7-7500U, i5-7200U, i3-7100U integrated)

Dynamic Frequency

Intel Dynamic Video Memory Technology

Microsoft DirectX®12 Compatible

Intel HD Graphics 610 (4415U, 3965U, 3865U integrated)

Dynamic Frequency

Intel Dynamic Video Memory Technology

Microsoft DirectX®12 Compatible

Storage

One Changeable 2.5" 7mm (h) SATA HDD/SSD

(**Factory Option**) One 9.5mm(h) Optical Device Type Drive (Super Multi Drive)

Or

(**Factory Option**) Dummy ODD

Or

(**Factory Option**) 7mm (h) 2nd HDD/SSD Caddy

(**Factory Option**) One M.2 **SATA/PCIe Gen3 x4** Solid State Drive (SSD) - i7-7500U, i5-7200U, i3-7100U, 3965U processor dependent

(**Factory Option**) One M.2 **SATA/PCIe Gen2 x2 / Gen3 x4** Solid State Drive (SSD) - 4415U, 3865U processor dependent

Pointing Device

Built-in Touchpad

Keyboard

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

Or

(**Factory Option**) Full-size "WinKey" **Illuminated White-LED** Keyboard (with numeric keypad)

Audio

High Definition Audio Compliant Interface
2 * Built-In Speakers
Built-In Microphone
(Factory Option) Built-In Array Microphone

Security

Security (Kensington® Type) Lock Slot
BIOS Password
Intel PTT for Systems Without TPM Hardware
(Factory Option) TPM 2.0

M.2 Slots

Slot 1 for **WLAN and Bluetooth** Combo Module
Slot 2 for **SATA/PCIe Gen3 x4 SSD** (i7-7500U, i5-7200U, i3-7100U, 3965U processor dependent)
Slot 2 for **SATA/PCIe Gen2 x2 / Gen3 x4 SSD** (4415U, 3865U processor dependent)
(Factory Option) Slot 3 for **3G/4G** Module

Interface

Two USB 2.0 Ports
One USB 3.0 (USB 3.1 Gen 1) Port
One USB 3.0 (USB 3.1 Gen 1) Type C Port Or
(Factory Option) One USB 3.1 Gen 2 Type C Port
One HDMI-Out Port
One External Monitor Port
One Microphone-In Jack
One Headphone & S/PDIF (Optical) Out Combo Jack
One RJ-45 LAN Jack
One DC-in Jack

Communication

Built-In Gigabit Ethernet LAN
1.0M HD PC Camera Module
(Factory Option) **3G** or **4G** M.2 Module

WLAN/ Bluetooth M.2 Modules:

(Factory Option) Intel® Wireless-AC 8265 Wireless LAN
(802.11ac) + Bluetooth 4.1
(Factory Option) Intel® Wireless-AC 3168 Wireless LAN
(802.11ac) + Bluetooth 4.0

Card Reader

Embedded Multi-In-1 Card Reader
MMC (MultiMedia Card) / RS MMC
SD (Secure Digital) / Mini SD / SDHC/ SDXC

Power

Full Range AC/DC Adapter
AC Input: 100 - 240V, 50 - 60Hz
DC Output: 19V, 2.1A (**40W**)
Removable 4 Cell Smart Lithium-Ion Battery Pack, 31WH
(Factory Option) Removable 4 Cell Smart Lithium-Ion Battery Pack, 44WH

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

377mm (w) * 259mm (d) * 22.8mm (h)
(Height Excluding Battery Area)
2.1kg (Barebone with 31WH Battery)

Introduction

Figure 1
Top View

1. PC Camera
2. *PC Camera LED
**When the PC camera is in use, the LED will be illuminated in red.*
3. Built-In Microphone
4. LCD
5. Power Button
6. Keyboard
7. Touchpad & Buttons

External Locator - Top View with LCD Panel Open



External Locator - Front & Right Side Views

FRONT VIEW



Figure 2
Front View

1. LED Indicators
2. Multi-in-1 Card Reader

RIGHT SIDE VIEW



Figure 3
Right Side View

1. Headphone-Out Jack
2. Microphone-In Jack
3. USB 2.0 Ports
4. ODD Bay
5. Emergency Eject Hole
6. Security Lock Slot

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. Vent
5. HDMI-Out Port
6. USB 3.0/3.1 Port
7. USB 3.0/3.1 Type C Port

LEFT SIDE VIEW



Figure 5
Rear View

1. Battery

REAR VIEW



External Locator - Bottom View

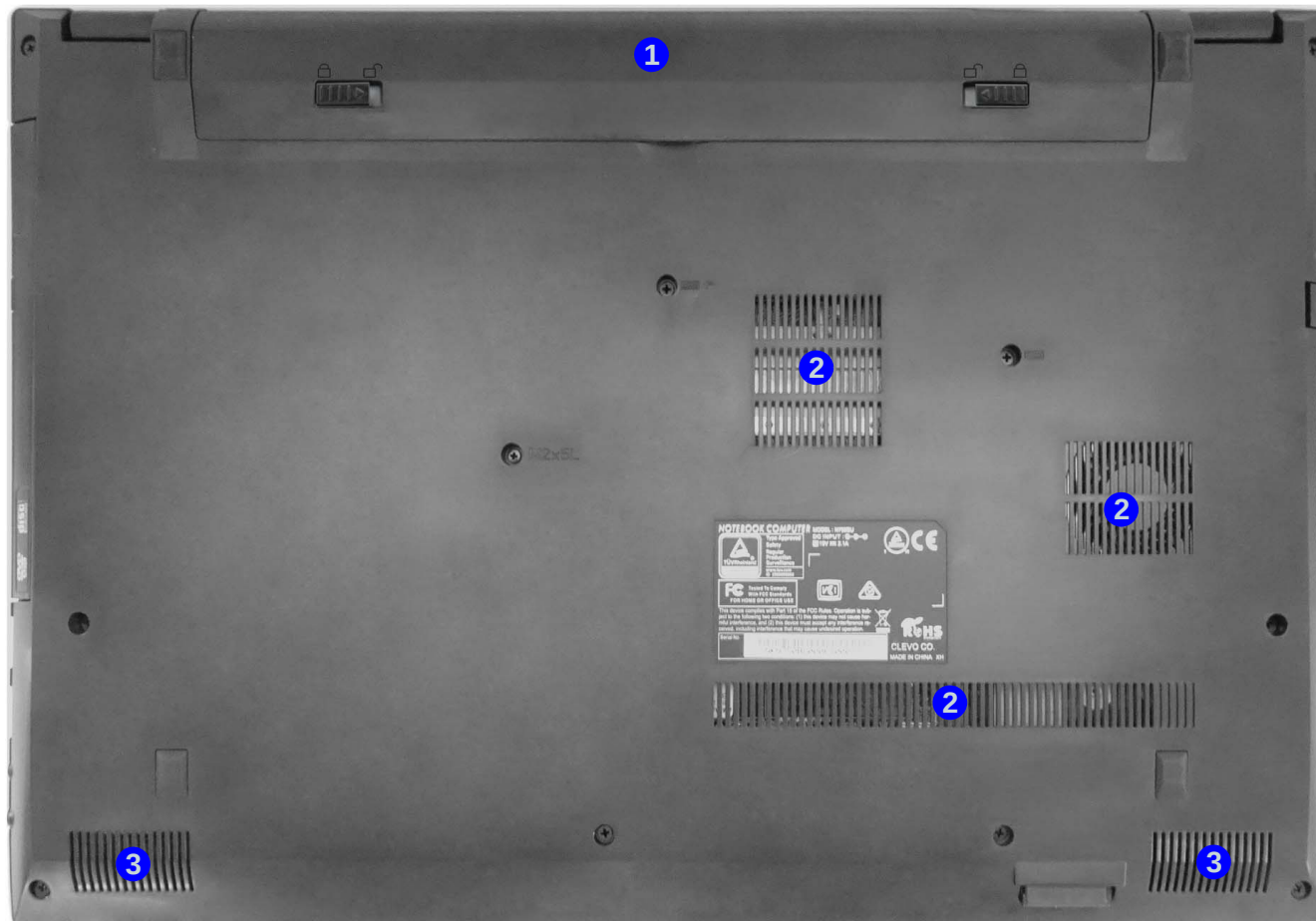


Figure 6
Bottom View

1. Battery
2. Vent
3. Speakers



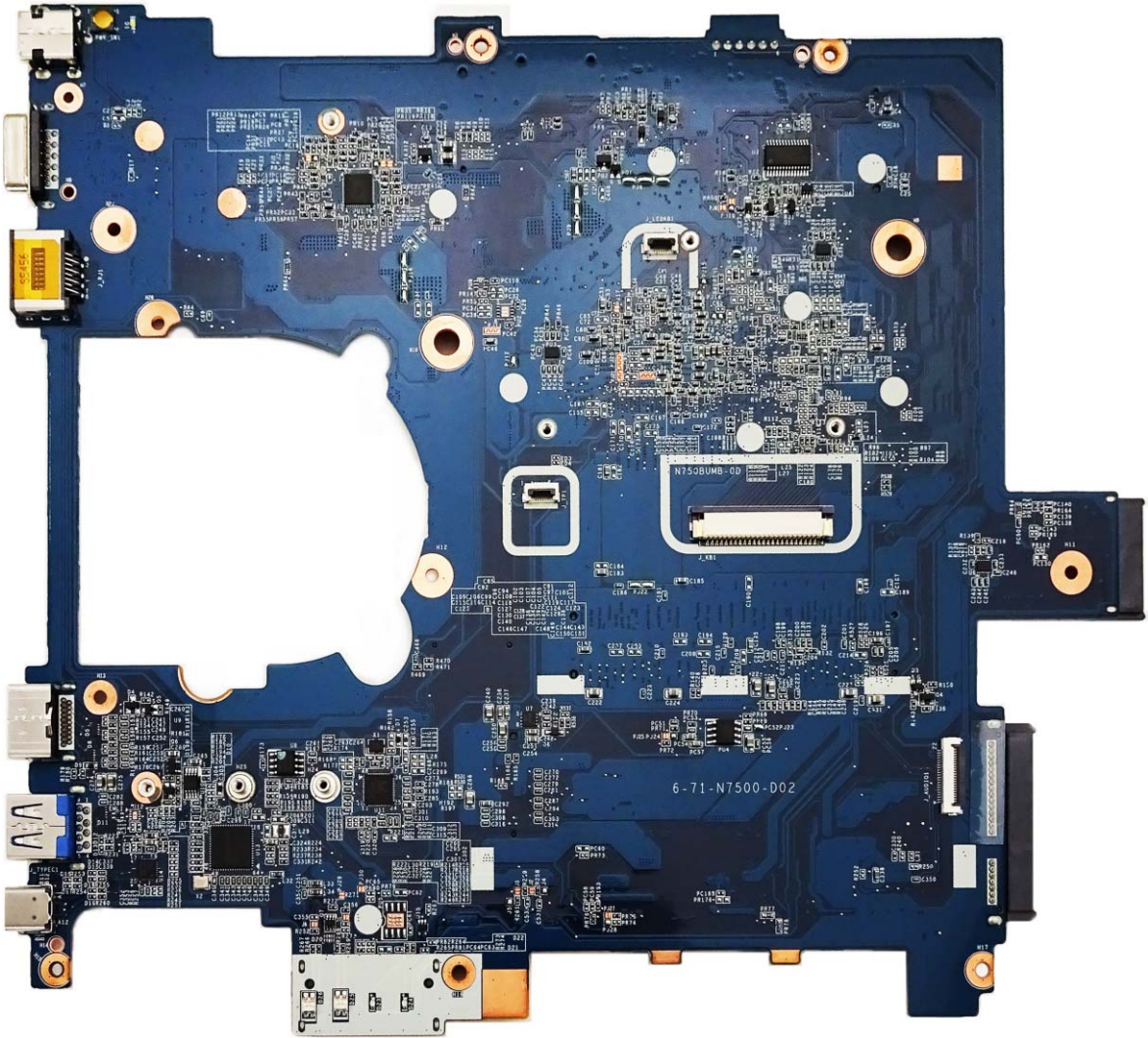
Overheating

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

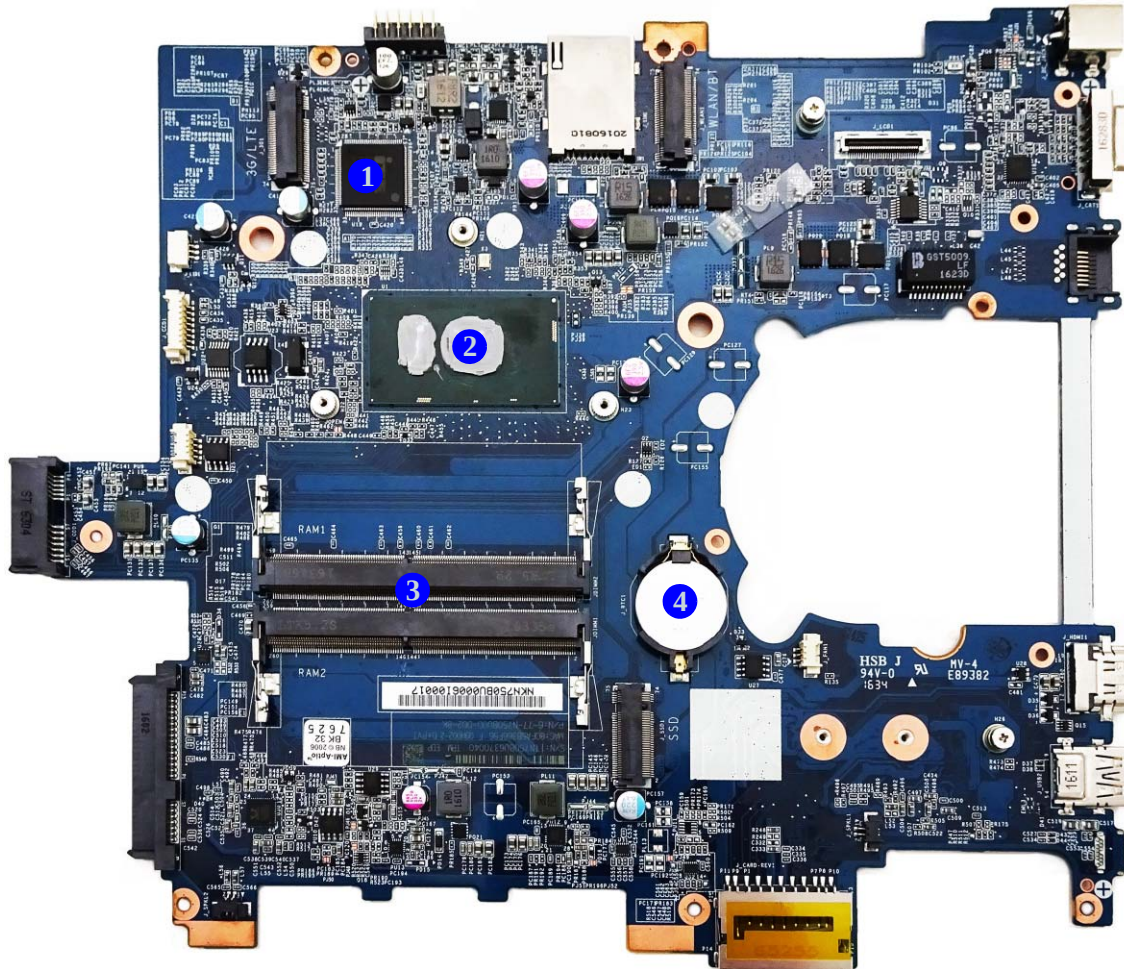
Mainboard Overview - Top (Key Parts)



Mainboard Overview - Bottom (Key Parts)

Figure 8
**Mainboard Bottom
Key Parts**

1. KBC-ITE IT8587
2. CPU
3. Memory Slots
DDR4 SO-DIMM
4. CMOS Battery



Introduction

Figure 9
**Mainboard Top
Connectors**

1. DC-In Jack
2. External Monitor Port
3. RJ-45 LAN Jack
4. HDMI-Out Port
5. USB Port 3.0/3.1
6. USB Port 3.0/3.1 Type C Port
7. Keyboard Cable Connector

Mainboard Overview - Top (Connectors)

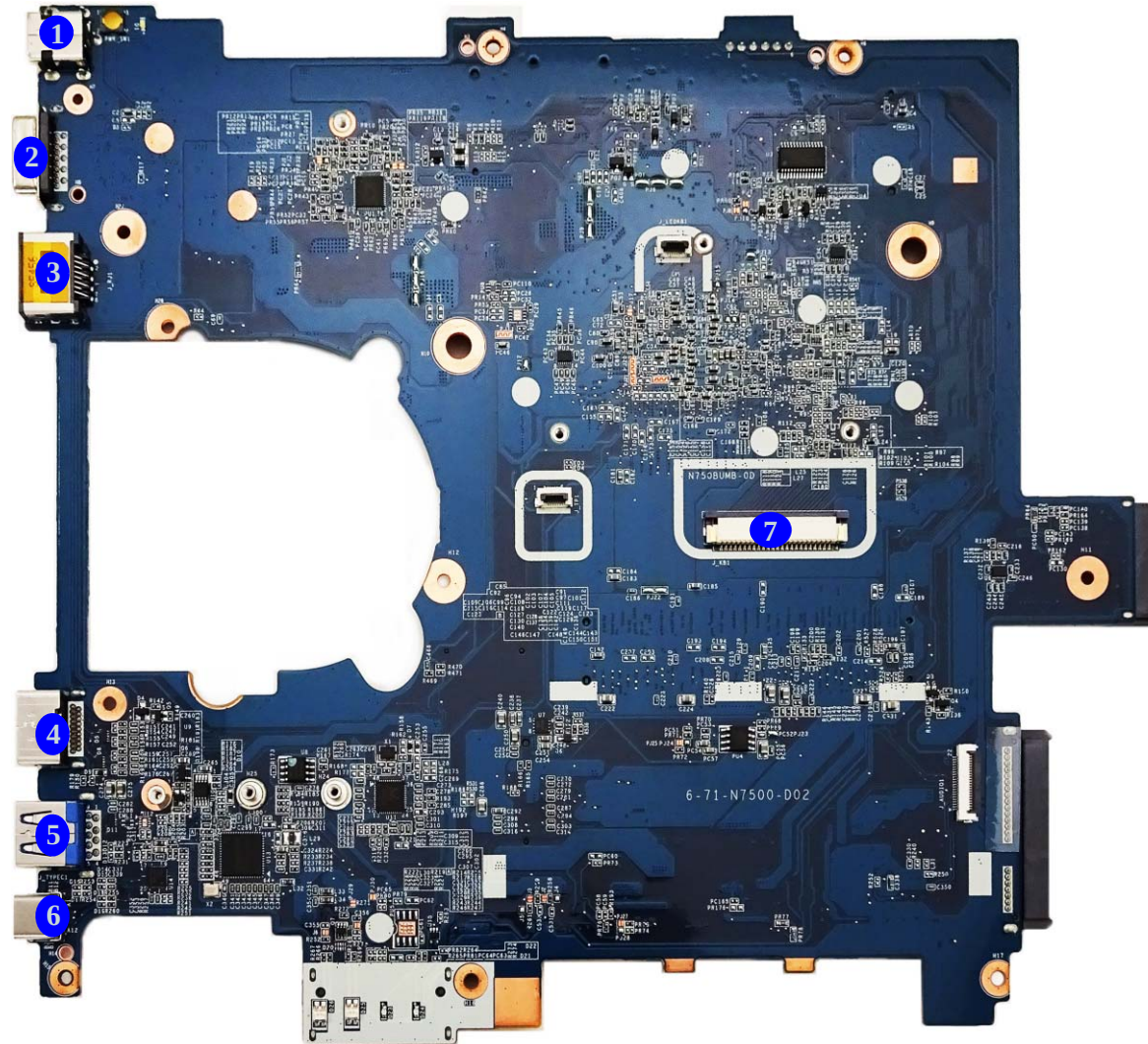
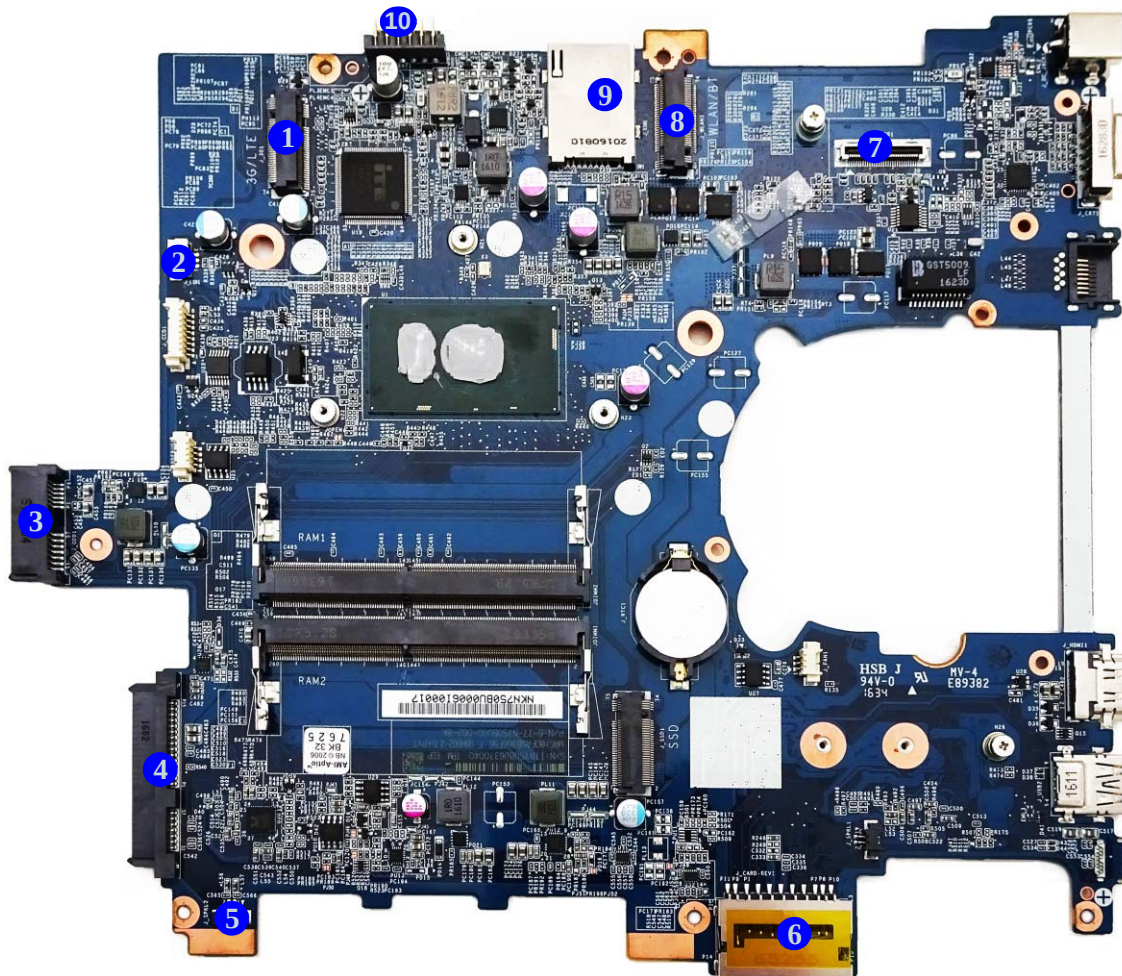


Figure 10
**Mainboard Bottom
Connectors**

1. 3G/4G Card Connector
2. LID Connector
3. ODD Connector
4. HDD Connector
5. Speaker Connector
6. Multi-in-1 Card Reader
7. LCD Cable Connector
8. WLAN Connector
9. SIM Card Reader
10. Battery Connector



Chapter 2: Disassembly

Overview

This chapter provides step-by-step instructions for disassembling the *N750BU* series notebook's parts and subsystems. When it comes to reassembly, reverse the procedures (unless otherwise indicated).

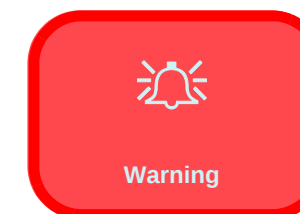
We suggest you completely review any procedure before you take the computer apart.

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-born particulate matter is often attracted to charged surfaces, reducing performance.
10. **Keep track of the components.** When removing or replacing any part, be careful not to leave small parts, such as screws, loose inside the computer.

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 and power cord). 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 Keyboard:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 6](#)

To remove the HDD:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 6](#)
3. Remove the HDD [page 2 - 7](#)

To remove the 2nd HDD:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 6](#)
3. Remove the 2nd HDD [page 2 - 9](#)

To remove the Optical Device:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 6](#)
3. Remove the HDD [page 2 - 7](#)
4. Remove the Optical Device [page 2 - 11](#)

To remove the System Memory:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 6](#)
3. Remove the HDD [page 2 - 7](#)
4. Remove the system memory [page 2 - 11](#)

To remove the Wireless LAN Module:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 6](#)
3. Remove the HDD [page 2 - 7](#)
4. Remove the WLAN [page 2 - 13](#)

To remove the 3G:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 6](#)
3. Remove the HDD [page 2 - 7](#)
4. Remove the 3G [page 2 - 15](#)

To remove the M.2 SSD:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 6](#)
3. Remove the HDD [page 2 - 7](#)
4. Remove the SSD [page 2 - 16](#)
5. Install the SSD [page 2 - 17](#)

To remove the CCD Module:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 6](#)
3. Remove the HDD [page 2 - 7](#)
4. Remove the CCD module [page 2 - 18](#)

Removing the Battery

1. Turn **off** the computer, 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 1b**).
4. Turn the battery **3** in the direction of the arrow **4** and lift it out (**Figure 1c**).
5. Insert a new battery **3** by aligning the battery to the pins **5** & **6** (**Figure 1d**).
6. Turn the battery **3** in the direction of the arrow **7** (**Figure 1e**).
7. Slide the latch **8** in the direction of the arrow to lock it in place (**Figure 1f**).

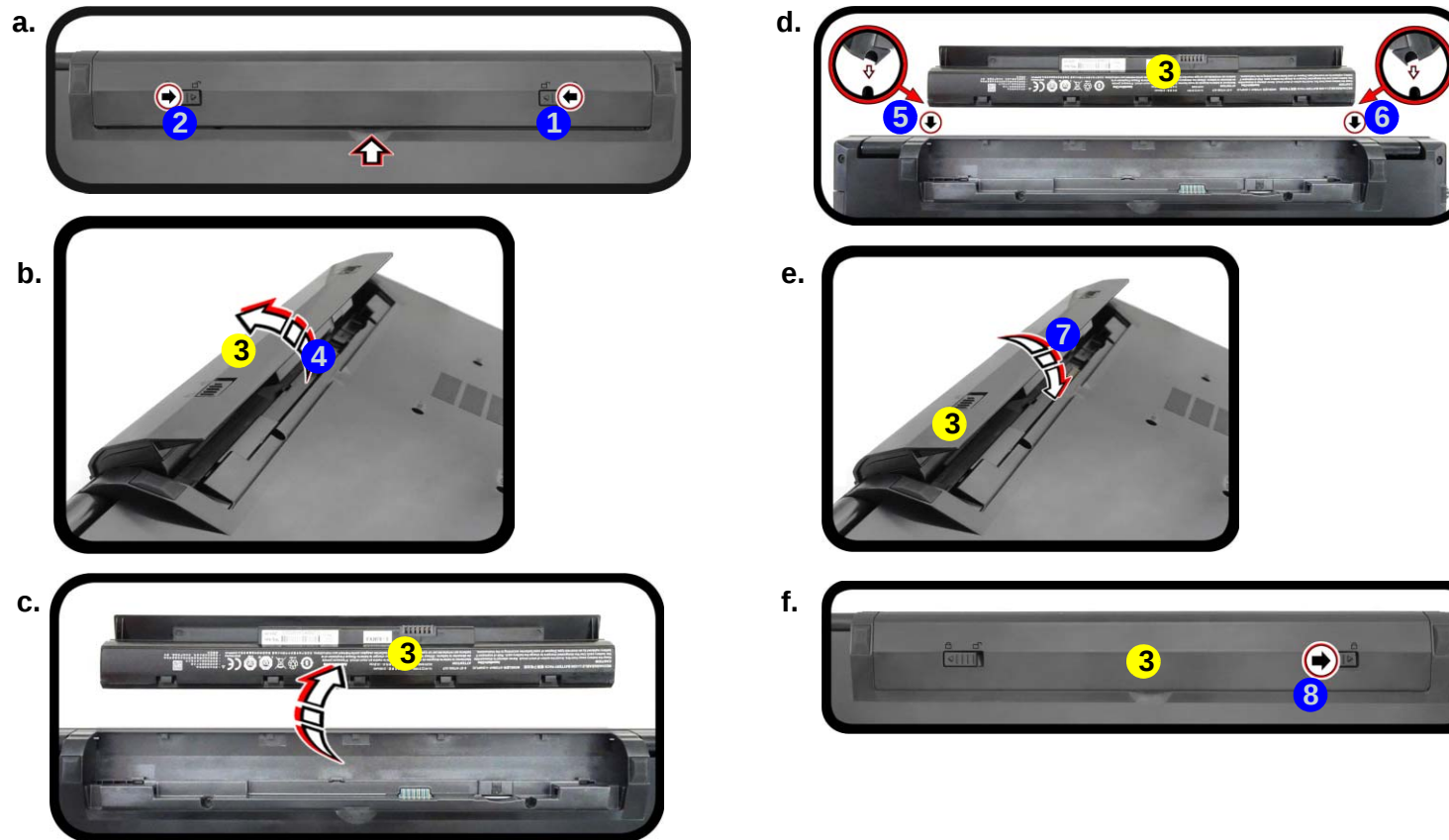
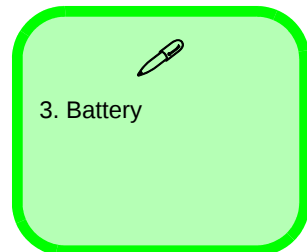


Figure 1
Battery Removal

- Slide the latch and hold it in place.
- Turn the battery in the direction of the arrow.
- Lift the battery out.
- Insert a new battery by aligning it to the pins.
- Turn the battery in the direction of the arrow.
- Lock the latch in place.



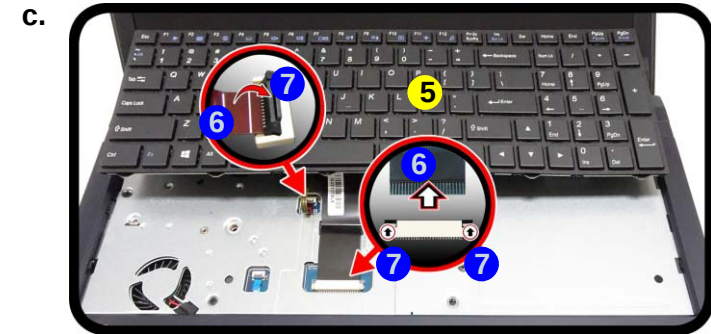
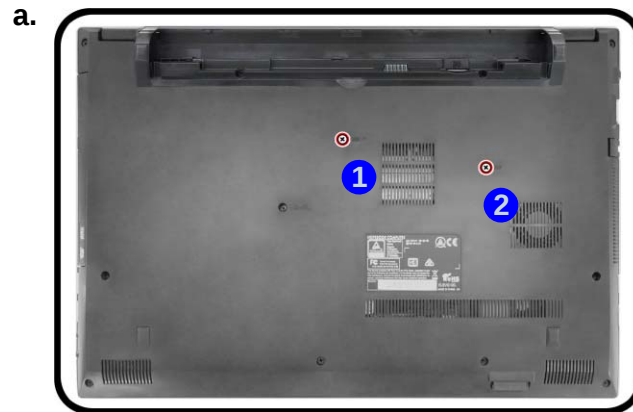
Disassembly

Figure 2
Keyboard Removal

- Remove the screws.
- Release the keyboard by pressing at point ③.
- Disconnect the keyboard ribbon cable from the locking collar socket.
- Remove the keyboard.

Removing the Keyboard

- Turn **off** the computer, turn it over to remove the battery ([page 2 - 5](#)).
- Remove screws ① - ② from the bottom case ([Figure 2a](#)).
- Open it up with the LCD on a flat surface before pressing at point ③ to release the keyboard module while releasing the keyboard in the direction of the arrow ④ as shown ([Figure 2c](#)).
- Carefully lift the keyboard ⑤ up, being careful not to bend the keyboard ribbon cable ⑥. Disconnect the keyboard ribbon cable from the locking collar socket ⑦ ([Figure 2d](#)).
- Carefully lift up the keyboard ⑤ off the computer ([Figure 2e](#)).
- Reverse the process to install the keyboard (do not forget to replace all the screws).



5. Keyboard

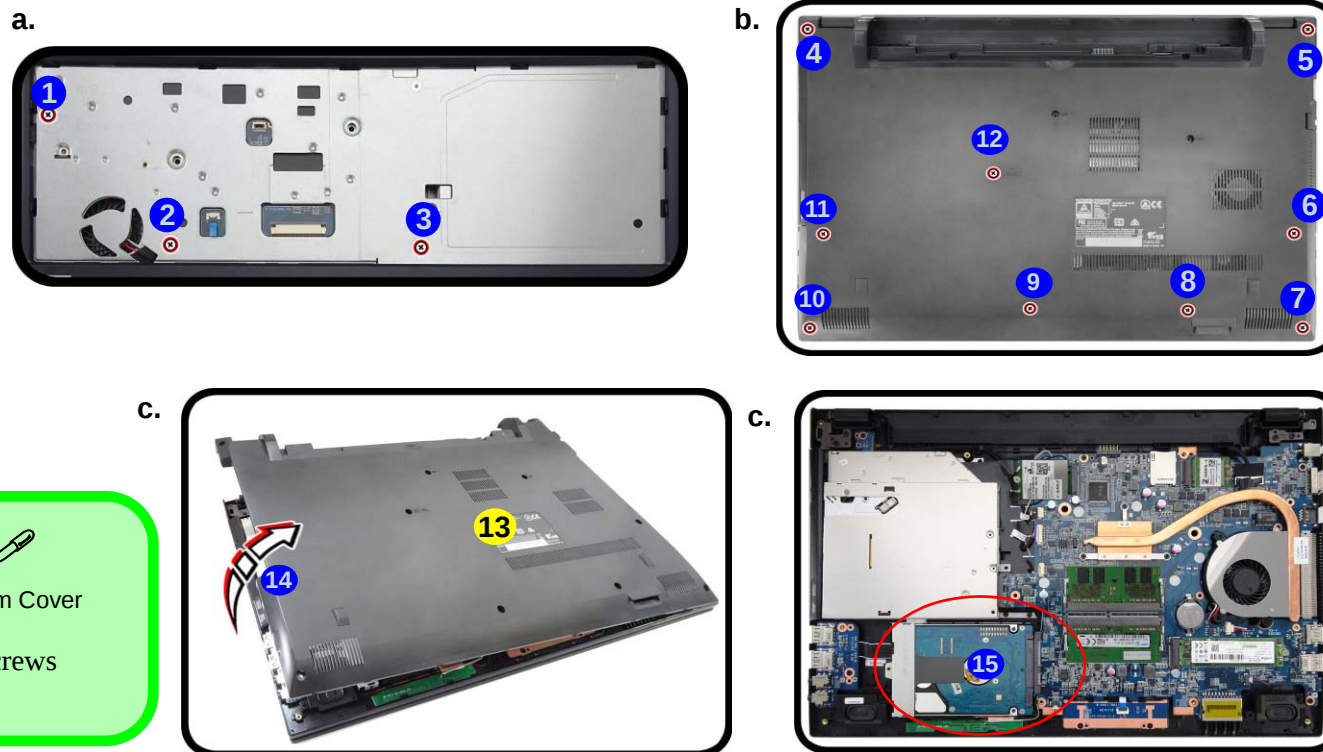
- 2 Screws

Removing the Hard Disk Drive

The hard disk drive can be taken out to accommodate other 2.5" serial (SATA) hard disk drives with a height of 7.0mm (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.

Hard Disk Upgrade Process

1. Turn **off** the computer, turn it over to remove the battery ([page 2 - 5](#)) and keyboard ([page 2 - 6](#)).
2. Remove screws **1** - **3** underneath the keyboard ([Figure 3a](#)).
3. Remove screws **4** - **12** ([Figure 3b](#)).
4. Lift the bottom cover **13** up from point **14** ([Figure 3c](#)).
5. The hard disk drive will be visible at point **15** ([Figure 3d](#)).



15. Bottom Cover

- 12 Screws

Figure 3
HDD Assembly Removal

- a. Remove the screws.
- b. Remove the screws.
- c. Remove the bottom cover.
- d. Locate the HDD assembly.



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.

Disassembly

Figure 4
**HDD Assembly
Removal (cont'd.)**

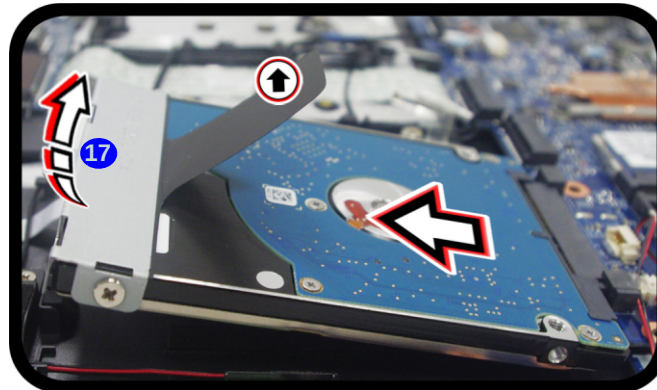
- d. Remove the screw.
- e. Slightly lift and pull the HDD assembly in the direction of the arrow.
- f. Lift the HDD assembly out of the bay.
- g. Remove the screws and HDD bracket.

- 6. Remove the screw **16** from the hard disk assembly (*Figure 4d*).
- 7. Slightly lift and pull the hard disk assembly in the direction of arrow **17** (*Figure 4e*).
- 8. Lift the hard disk assembly **18** out of the bay **19** (*Figure 4f*).
- 9. Remove the screws **20** - **21** and the HDD bracket **22** from the hard disk **23** (*Figure 4g*).
- 10. Reverse the process to install a new hard disk (do not forget to replace all the screws and bottom cover).

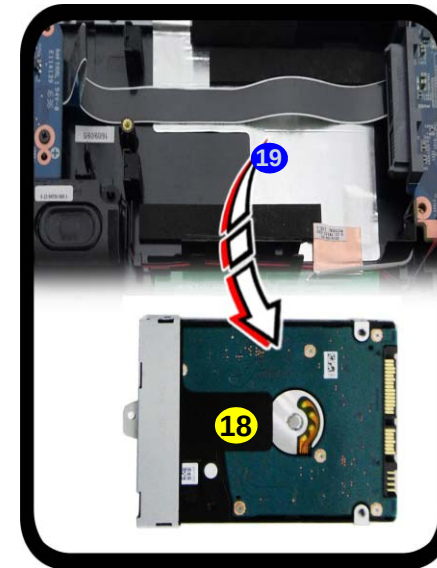
d.



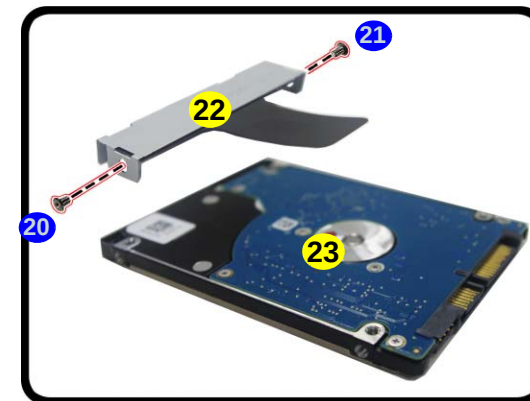
e.



f.



g.



18. HDD Assembly
22. HDD Bracket
23. HDD

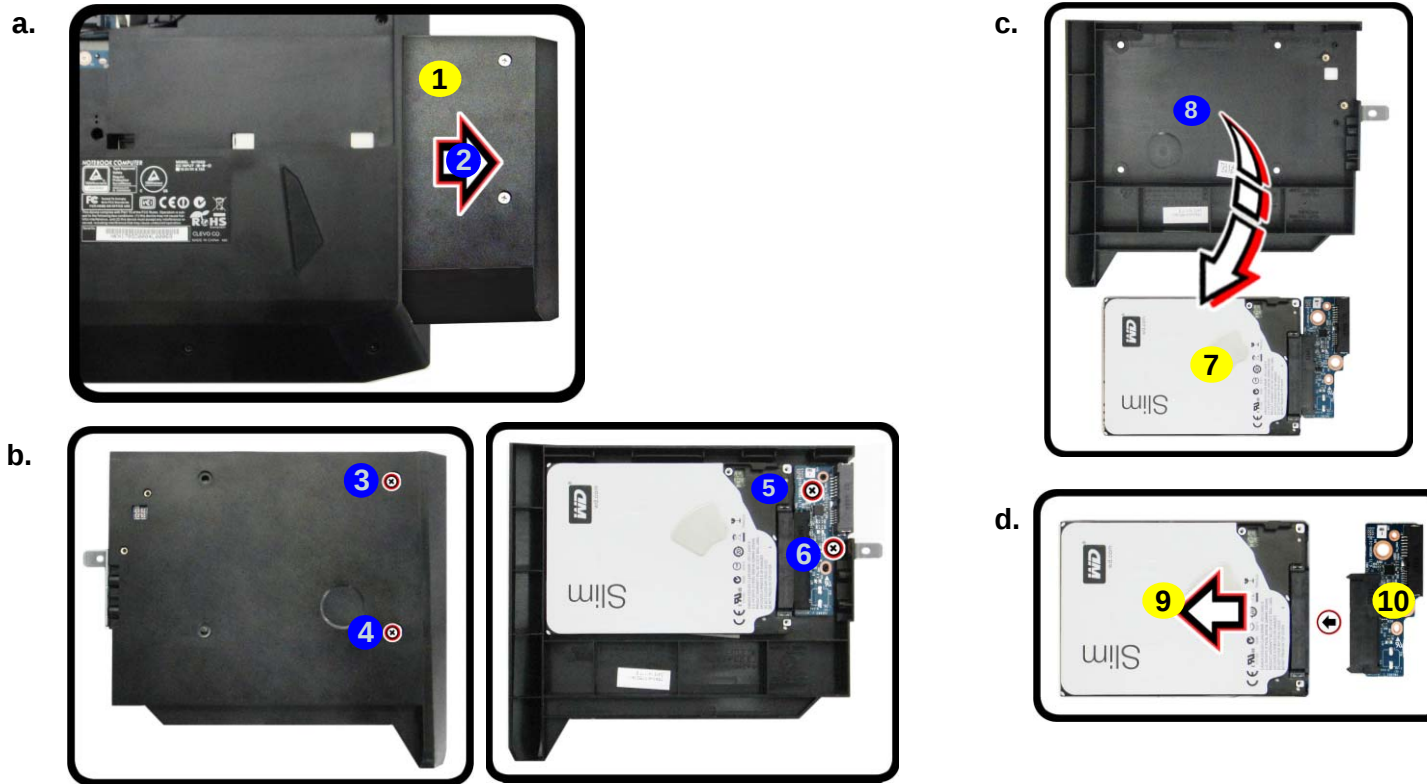
- 3 Screws

Removing the 2nd Hard Disk from Caddy Bay

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)), and bottom case ([page 2 - 7](#)).
2. Carefully push out the caddy bay **1** out in the direction of the arrow **2** ([Figure 5a](#)).
3. Remove screws **3** - **4** (will depends on the HDD type) from the bottom of the caddy bay.
4. Remove screws **5** - **6** to release the hard disk assembly ([Figure 5b](#)).
5. Lift the hard disk assembly **7** out of the caddy bay **8** ([Figure 5c](#)).
6. Separate the hard disk **9** and connector board **10** ([Figure 5d](#)).
7. Reverse the process to install a new hard disk.
8. Restart the computer to allow it to automatically detect the new device.

Figure 5
2nd HDD Removal

- a. Push the caddy bay out off the computer.
- b. Remove the screws.
- c. Lift the hard disk assembly out of the caddy bay
- d. Separate the hard disk and connector.



- 
1. Dummy Bay
 7. HDD Assembly
 9. Hard Disk
 10. Connector Board
- 4 Screws

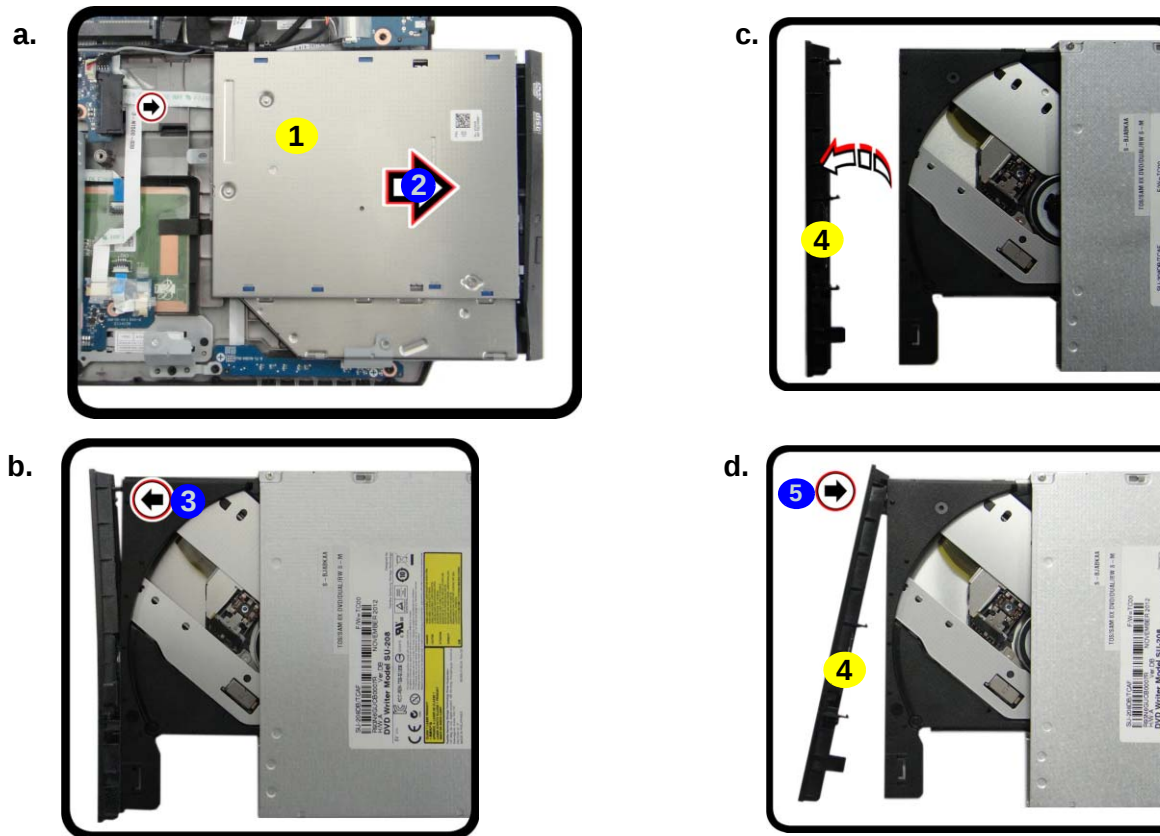
Disassembly

Figure 6
**Optical Device
Removal**

- a. Push the optical device out off the computer.
- b. Pry the bezel off the optical device.
- c. Separate the bezel and optical device
- d. Install the front bezel.

Removing the Optical (CD/DVD) Device

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)), and bottom case ([page 2 - 7](#)).
2. Carefully push out the optical device **1** out of the bay in the direction of the arrow **2** ([Figure 6a](#)).
3. Carefully pry the bezel **4** off the optical device at point **3** ([Figure 6b](#)).
4. Separate the bezel **4** and the optical device ([Figure 6d](#)).
5. Reverse the process to attach the front bezel **4** with the new optical device at point **5** ([Figure 6d](#)).
6. Insert the new device and carefully slide it into the computer (the device only fits one way. DO NOT FORCE IT; The screw holes should line up). Replace the bottom cover and tighten the screws.
7. Restart the computer to allow it to automatically detect the new device.



1. Optical Device
4. Bezel Cover

Removing the System Memory (RAM)

The computer has two memory sockets for 260 pin Small Outline Dual In-line Memory Modules (SO-DIMM) supporting DDR4 Up to 2133 MHz. The main memory can be expanded up to 32GB. The total memory size is automatically detected by the POST routine once you turn on your computer.

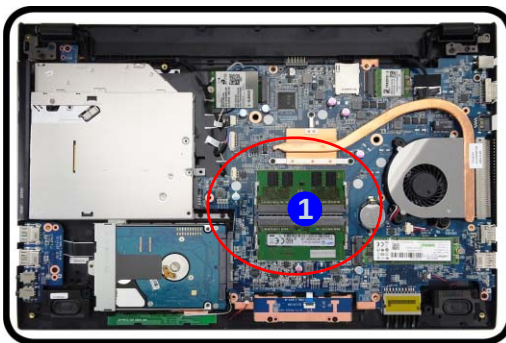
Memory Upgrade Process

1. Turn **off** the computer, turn it over to remove the battery ([page 2 - 5](#)) and bottom cover ([page 2 - 7](#)).
2. The RAM modules will be visible at point **1** on the mainboard ([Figure 7b](#)).
3. Gently pull the two release latches (**2** & **3**) on the sides of the memory socket in the direction indicated by the arrows ([Figure 7b](#)).
4. The RAM module **4** will pop-up ([Figure 7c](#)), and you can then remove it.

Figure 7
RAM Module Removal

- a. The RAM modules will be visible at point **1** on the mainboard.
- b. Pull the release latches.
- c. Remove the module.

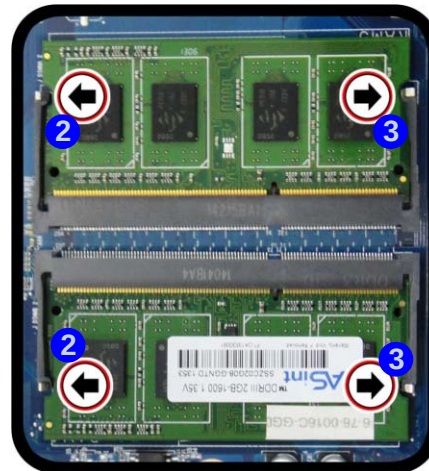
a.



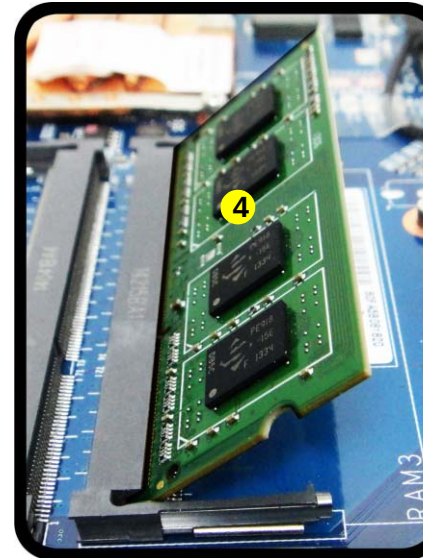
Single Memory Module Installation

If your computer has a single memory module, then insert the module into the Channel 0 (JDIMM1 / RAM1) socket.

b.



c.



Contact Warning

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



4. RAM Module

Disassembly

5. Pull the latches to release the second module if necessary.
6. Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
7. The module 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.
8. Replace the bottom case and the screws (see [page 2 - 7](#)).
9. Restart the computer to allow the BIOS to register the new memory configuration as it starts up.

Removing the Wireless LAN Module

1. Turn **off** the computer, turn it over to remove the battery ([page 2 - 5](#)) and bottom cover ([page 2 - 7](#)).
2. The Wireless LAN module will be visible at point **1** on the mainboard ([Figure 8a](#)).
3. Carefully disconnect the cables **2** & **3**, and then remove the screw **4** ([Figure 8b](#))
4. The Wireless LAN module **5** ([Figure 8c](#)) will pop-up, and you can remove it from the computer.

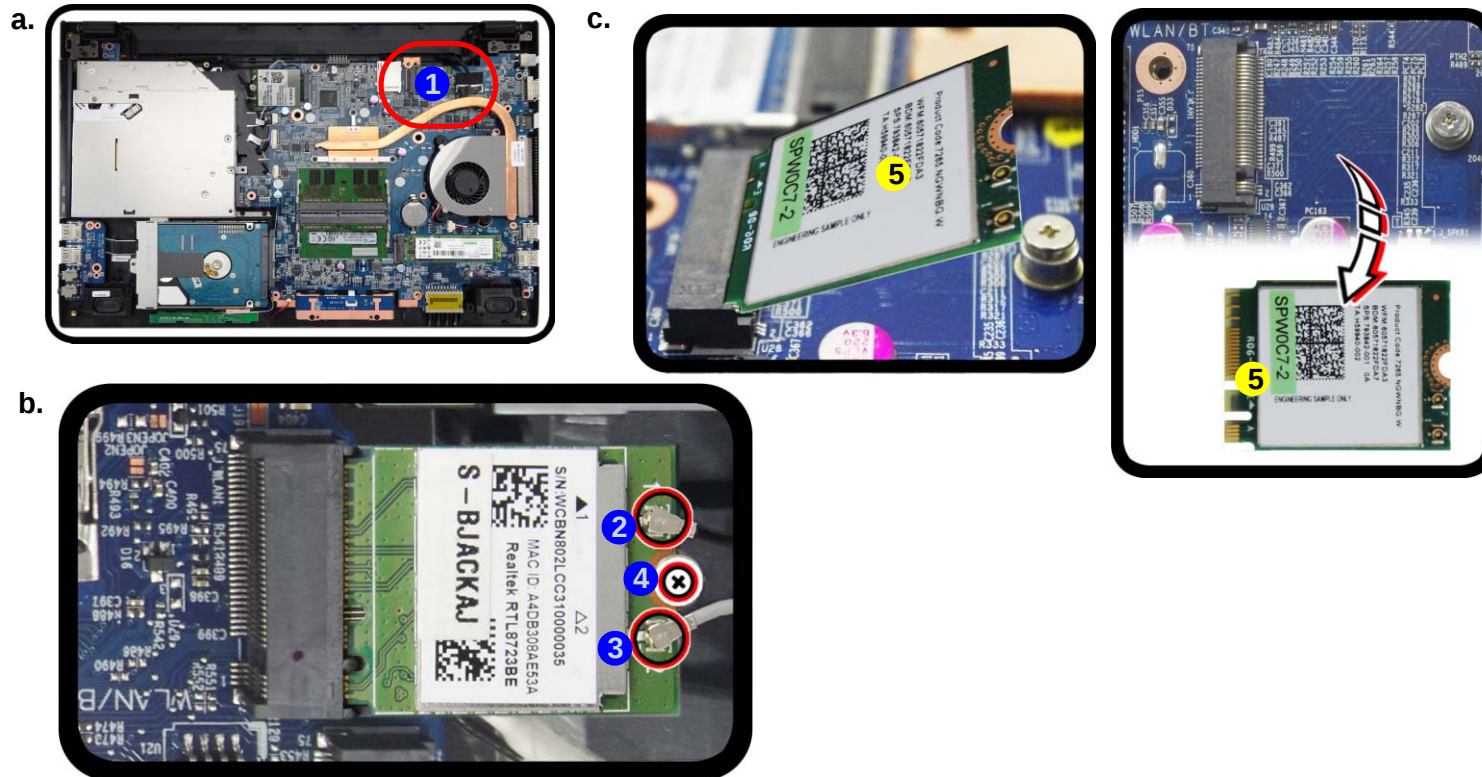


Figure 8
WLAN Module Removal

- a. Locate the WLAN.
- b. Disconnect the cable and remove the screw.
- c. The WLAN module will pop up and lift it out of the computer.

Note: Make sure you reconnect the antenna cable to the “1 + 2” socket ([Figure 8b](#)).



5. Wireless LAN Module

- 1 Screw

Disassembly

Wireless LAN and Combo Module Cables

Note that the cables for connecting to the antennae on WLAN and WLAN & Bluetooth Combo modules are not labelled. The cables/covers (each cable will have either a black or transparent cable cover) are color coded for identification as outlined in the table below.

Module Type	Antenna Type	Cable Color	Cable Cover Type
WLAN/WLAN & Bluetooth Combo	WM 1	Black	Transparent
	WM 2	Gray	
	WM 3	White	

Cable 1 is usually connected to antenna 1 (Main) on the module, and cable 2 to antenna 2 (Aux).

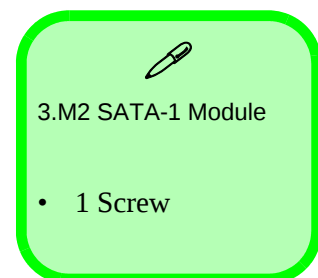
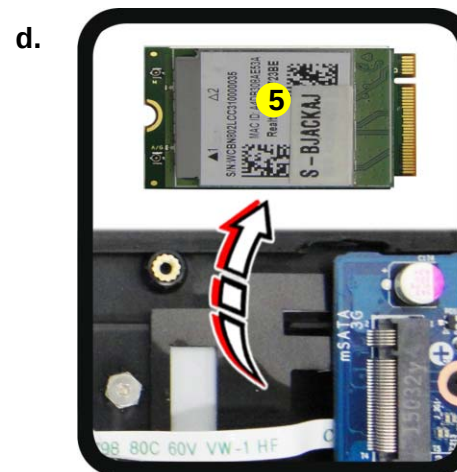
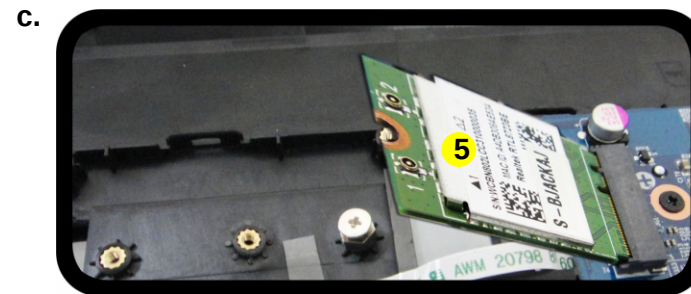
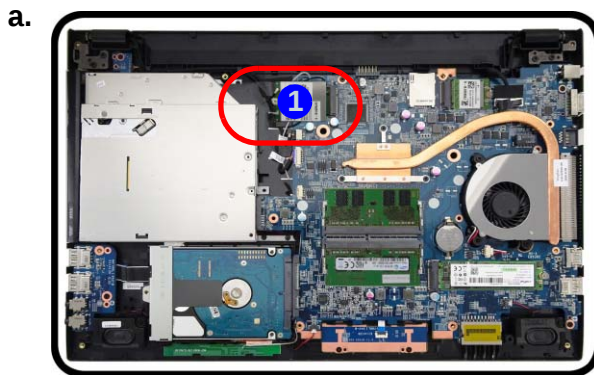
Removing the 3G Module

3G Module Removal Procedure

1. Turn **off** the computer, turn it over to remove the battery ([page 2 - 5](#)) and bottom cover ([page 2 - 7](#)).
2. The module will be visible at point **1** on the mainboard ([Figure 9a](#)).
3. Carefully disconnect the cables **2** & **3**, and then remove the screw **4** from the module ([Figure 9b](#)).
4. The module **5** will pop-up ([Figure 9c](#)).
5. Lift the module **5** up and off the computer ([Figure 9d](#)).

Figure 9
3G Module Removal

- Locate the module.
- Disconnect the cables and remove the screw.
- The module will pop up.
- Lift the module up and off the socket



Disassembly

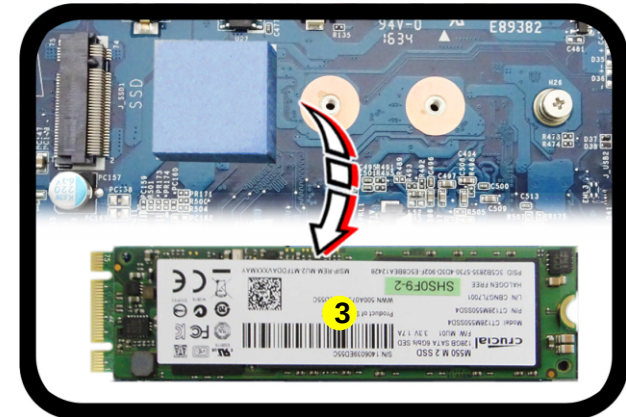
Figure 10
M.2 SSD Module
Removal

- a. Locate the M.2 SSD.
- b. Remove the screw.
- c. The M.2 SSD module will pop up.

Removing and Installing the M.2 SSD Module

m.2 SSD Removal Procedure

1. Turn **off** the computer, turn it over to remove the battery ([page 2 - 5](#)) and bottom cover ([page 2 - 7](#)).
2. The M.2 SSD module will be visible at point **1** on the mainboard ([Figure 10a](#)).
3. Remove the screw **2** ([Figure 10b](#)).
4. The M.2 SSD module **3** ([Figure 10c](#)) will pop-up, and you can remove it from the computer.



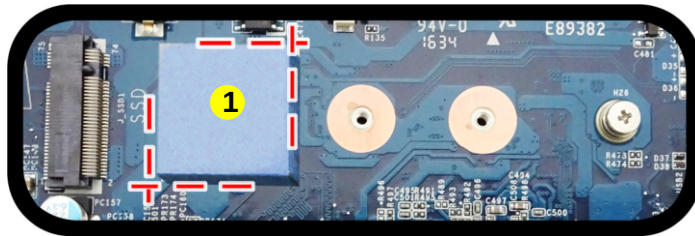
3.M2 SATA-1 Module

- 1 Screw

M.2 SSD Installation Procedure

1. Place the thermal pad **1** on the bottom case as shown (**Figure 11a**).
2. Insert the module **2** in the computer (**Figure 11b**).
3. Tighten the screw **3** to secure it in place (**Figure 11c**).

a.



b.

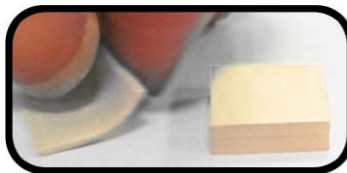


c.



Figure 11
M.2 SSD Module Installation

- a. Place the thermal pad.
- b. Insert the module.
- c. Tighten the screw.



Thermal Pad

Be sure to place the thermal pad's adhesive side down onto the mainboard surface.

The thermal pad's thickness differ for different M.2 SSD module:

- For module with chip, use 2.5mm thick thermal pad.
- For module without chip, use 3.5mm thick thermal pad.



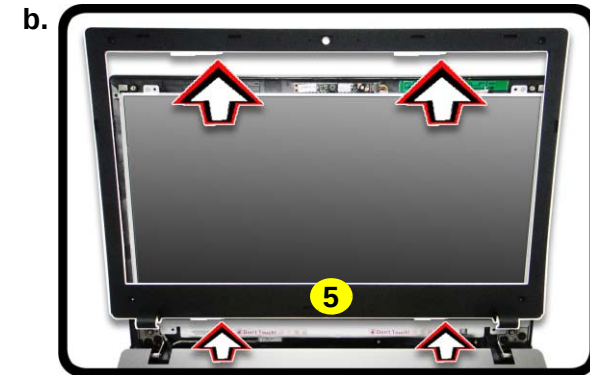
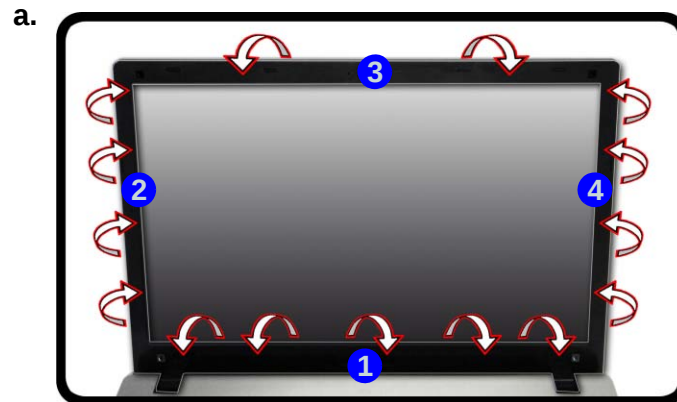
1. Thermal Pad
2. M.2 SSD Module

- 1 Screw

Disassembly

Figure 12
CCD Removal

- a. Run your fingers around the inner frame of the LCD panel at the points indicated by the arrows.
 - b. Lay the computer down on a flat surface with the top case up forming a 90 degree angle. Push the LCD front panel upwards before carefully lifting it up.
 - c. Remove the LCD front cover.
1. Turn **off** the computer, turn it over to remove the battery ([page 2 - 5](#)).
 2. Run your fingers around the inner frame of the LCD panel at the points as indicated by the arrows **1** - **4** ([Figure 12a](#)).
 3. Lay the computer down on a flat surface with the top case up forming a 90 degree angle. Push the LCD front cover **5** upwards before carefully lifting it up.
 4. Remove the LCD front cover **5** ([Figure 12c](#)).



5. LCD Front Cover

5. Disconnect the cable ⑥.
6. Remove the CCD module ⑦ (Figure 13f).
7. Reverse the process to install a new CCD module.

d.



e.

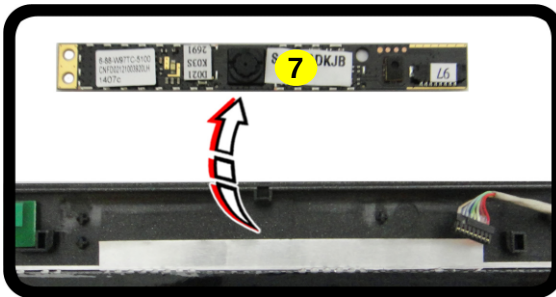


Figure 13
**CCD Removal
(cont'd)**

- d. Disconnect the cable.
- e. Remove the CCD module.



7. CCD Module

Appendix A:Part Lists

This appendix breaks down the *N750BU* 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.

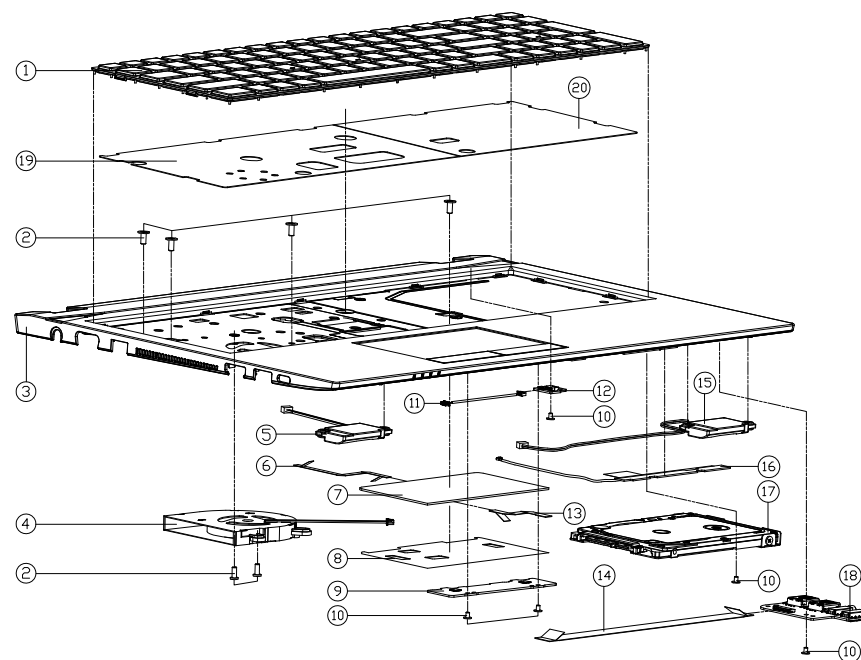
Part List Illustration Location

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

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

Part	
Top	<i>page A - 3</i>
Bottom	<i>page A - 4</i>
LCD	<i>page A - 5</i>
HDD	<i>page A - 6</i>
HDD Caddy	<i>page A - 7</i>
DVD	<i>page A - 8</i>
MB	<i>page A - 9</i>

Top

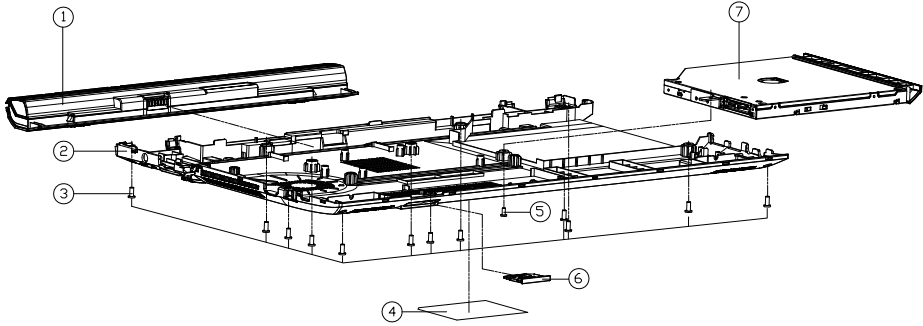


ITEM	PART NAME	PART NO	REMARK
1	WHITE BL KD USA CONDUCTIVE ADHESIVE BLKES ISOLATION WITH VINYL KEY + KD FRAME	6-80-N7500-011-1	
2	.SCREW M2.5*6L K BZ ICT NY	6-35-82125-6RA	
3	TOP CASE MODULE (W/BL) N750BU	6-39-N7502-112	
3	TOP CASE MODULE (W/BL) N751BU	6-39-N7512-110	
4	FAN MODULE W251HUQ	6-31-W25HS-100	
5	SPK CABLE L 20MM LSW 4P 35MM BG-25H-RL-16-HF (1000 N250U) (AUD RIBBER)	6-23-5N250-0L2	
6	TP TO MB FFC CABLE 33V 6P PITCH-0.5MM L=74MM (QTD) N750BU	6-43-N7500-021	
7	TOUCH PAD SYNAPTICS PTP TM-40089-002 (000P55MM) W6500C	6-49-W65D3-010	
8	TOP TP MYLAR PET N750BU	6-40-N7502-050	
9	CLICK BOARD V2.0 N750BU	6-77-N7502-D02	
10	SCREW M2*3L K1 BZ ICT NY (DD=04.5,DT=0.4)	6-35-B6120-3RD	
11	WIRE CABLE FOR HALL SENSOR TO MB 167MM 3V 3PIN (QTD) P7502M	6-43-P7500-012	
12	HALL SENSOR BOARD V2.0 N750BU	6-77-N7501-D02	
13	CLICK TO TP FFC CABLE 5V 4P PITCH-1.0MM L=45MM (QTD) N750BU	6-43-N7502-011	
14	AUDIO TO MB FFC CABLE 5V 22P PITCH-0.5MM L=164MM (QTD) N750BU	6-43-N7500-012	
15	SPK CABLE R 20MM LSW 4P 175MM BG25H40MM03-HF (1000 N750BU)	6-23-5N750-0R0-1	
16	ANTENNA PCB-4 34MM WD L=2 PTD 0.4MM DIA/0.4MM DIA/0.4MM DIA/0.4MM DIA L=25MM W=50MM	6-23-7W355-020	
17	W/D HDD ASS'Y N750BU	6-79-N750BU0J-010	
17	W/ HDD ASS'Y N750BU	6-79-N750BU0J-020	
18	AUDIO BOARD V2.0 N750BU	6-77-N7508-D02	
19	W/D BL KB MYLAR L PET+DST-15 N750BU	6-40-N7502-070	FOR W/D BL KB
20	W/D BL KB MYLAR R PET+DST-15 N750BU	6-40-N7502-060	FOR W/ BL KB

Figure A - 1
Top

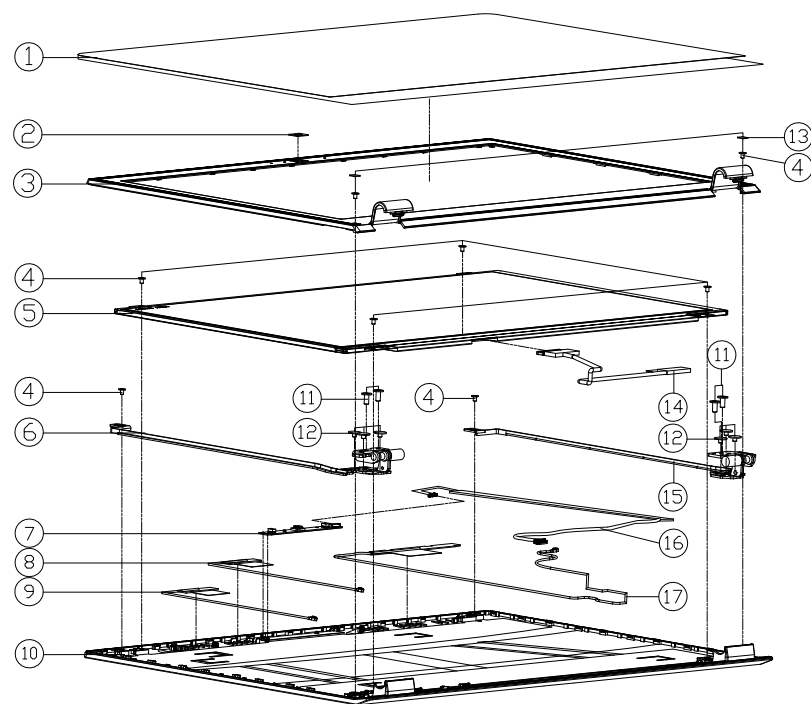
Bottom

Figure A - 2
Bottom



ITEM	PART NAME	PART NO	REMARK
1	W/O HDD CADDY ASS'Y N750BU	6-87-N750S-3CF2	
1	W/O HDD CADDY ASS'Y N750BU	6-87-N750S-4EB2	
2	BOTTOM CASE MODULE N750BU	6-39-N7503-012	
3	SCREW M2.5*6L K BZ ICT NY	6-35-82125-6RA	
4	PRODUCT LABEL FOR N750BU	6-45-N750BU03-010	
4	PRODUCT LABEL FOR N751BU	6-45-N751BU03-010	
5	SCREW M2*5L KI(T=0.8 D=4.0) BK/Z ICT NY	6-35-B6120-5R0	
6	DUMMY 3.5IN NON PUSH TYPE PC-HAS (C7280P-7010C) W/9708UW	6-42-W9708-030	
7	W/O HDD ASS'Y N750BU	6-79-N750BU0Z-000	
7	2ND HDD CADDY ASS'Y W/O HDD N750BU	6-79-N750BU0J-030	
7	2ND HDD CADDY ASS'Y W/HDD N750BU	6-79-N750BU0J-040	
7	SATA DVD SUPER MULTI BX ASS'Y N750BU	6-79-N750BU0Q-001	

LCD

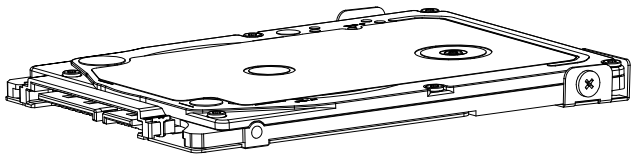
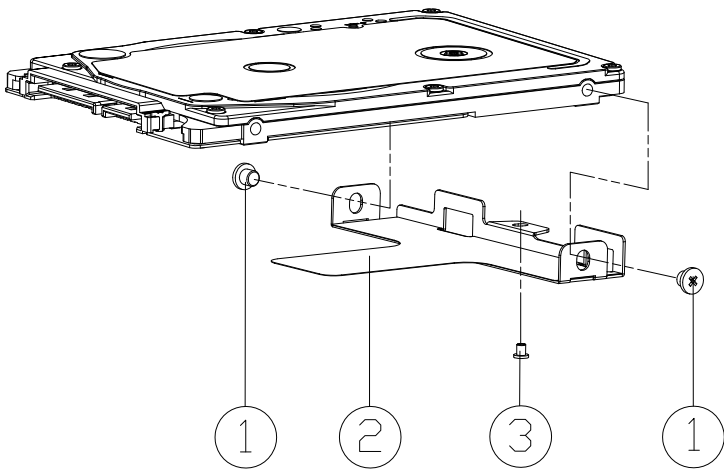


ITEM	PART NAME	PART NO	REMARK
1	LCD PROTECT MYLAR BOPP N650DU	6-40-N6508-040	
2	CCD LENS PMMA N750BU	6-42-N7501-010	
3	FRONT COVER MODULE N750BU	6-39-N7501-012	
4	SCREW M2*3L K1 BZ ICT NY (DD=04.5,DT=0.4)	6-35-B6120-3RD	
5	LCD 15.6" FHD/IPS/EDP LG LP156WF6-SPK3 (A4) (LED) 32MM	6-50-LB232-L08	
5	LCD 15.6" FHD/IPS/EDP LG LP156WF6-SPK3 (A4) (LED) 32MM	6-50-LB232-L04	
5	LCD 15.6" HD (EDP) AU B156XTN07.1 (3.2MM) LED	6-50-LB132-G04	
5	LCD 15.6" FHD EDP AU B156HTN03.8 (LED) 32MM	6-50-LB232-G15	
6	HINGE L (SK7+SGCC) SNR N750BU	6-33-N7501-0L1	
7	HVC CAMERA CORDON FOR COUNTERMOUNTING IN HD DISPLAY (OPTION)	6-88-W51PC-5110	OPTION
7	HVC CAMERA CORDON FOR COUNTERMOUNTING IN HD DISPLAY (OPTION)	6-88-W51PC-5100	OPTION
7	HVC CAMERA CORDON FOR COUNTERMOUNTING IN HD DISPLAY (OPTION)	6-88-N650C-4910	OPTION
7	HVC CAMERA CORDON FOR COUNTERMOUNTING IN HD DISPLAY (OPTION)	6-88-N650C-4900	OPTION
8	ANTENNA PEKX ALUM VGT M2 PCD AL 246/30HZ M2-30MM N750BU	6-23-7N750-020	
9	ANTENNA PEKX ALUM VGT M2 PCD AL 246/30HZ M2-30MM N750BU	6-23-7N650-010	
10	BACK COVER MODULE N750BU	6-39-N7501-021	
10	LCD BACK COVER MODULE N751BU	6-39-N7511-020	
11	SCREW M2.5*6L K BZ ICT NY	6-35-82125-6RA	
12	SCREW M2.5*2.5L K1 BK/Z ICT NY (A8,T=0.6)	6-35-B6125-2R5	
13	FRONT COVER SCREW MYLAR/PC+SM4680/SM461251 N750BU	6-40-N1501-010	
14	WIRE CABLE FOR EDP 20MM (L) 19V 30PIN (H/L/V COM/LN/T/SH/RE/222) N750BU	6-43-N7501-012-N	
15	HINGE R (SK7+SGCC) SNR N750BU	6-33-N7501-0R1	
16	WIRE CABLE FOR CCD D-MIC 500MM 3.3V 8P (H/L) N250LU	6-43-N250T-011	
17	ANTENNA PEKX LITE VGT M2 PCD MOUNTY IN HD DISPLAY (OPTION)	6-23-7N550-011	

Figure A - 3
LCD

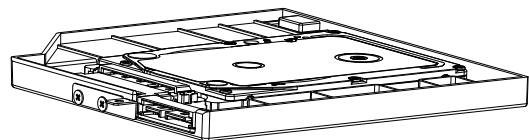
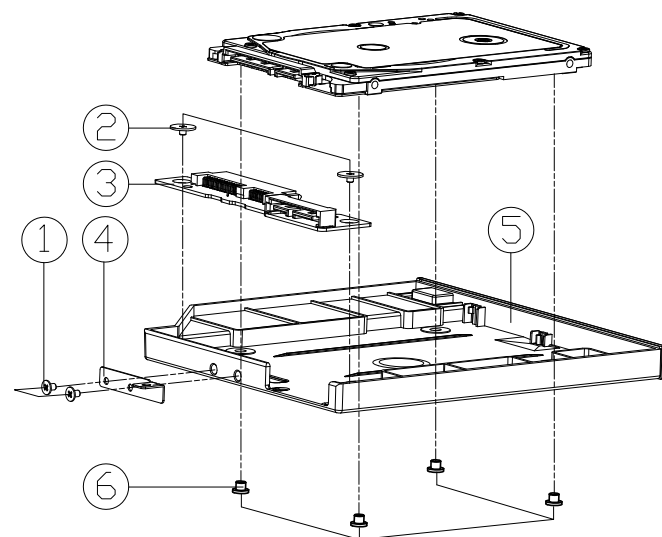
HDD

Figure A - 4
HDD



ITEM	PART NAME	PART NO	REMARK
1	SCREW M3*2.5L KI NI ICT NY	6-35-B1130-2R5	
2	HDD BKT 7MM SECC T=0.5 N250LU	6-33-N250J-011	
3	SCREW M2*3L KI BZ ICT NY (DD=Ø4.5,DT=0.4)	6-35-B6120-3RD	

HDD Caddy

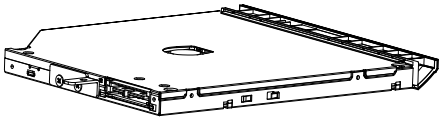
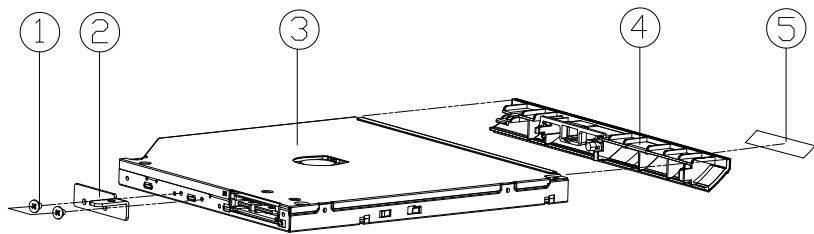


ITEM	PART NAME	PART NO	REMARK
1	SCREW M2*3L KI BZ ICT NY (DD=Ø4.5,DT=0.4)	6-35-B6120-3RD	
2	SCREW M2*2L KI BK/Z ICT NY(Ø8,T=0.6)	6-35-B6120-2RE	
3	CADDY BAY BOARD V2.0 N750BU	6-77-N750N-D02	
4	HDD BRACKET SECC W547BL	6-33-W547Z-011	
5	DUMMY HDD MODULE N750BU	6-42-N750Z-102	
6	SCREW M3*2.5L KI NI ICT NY	6-35-B1130-2R5	

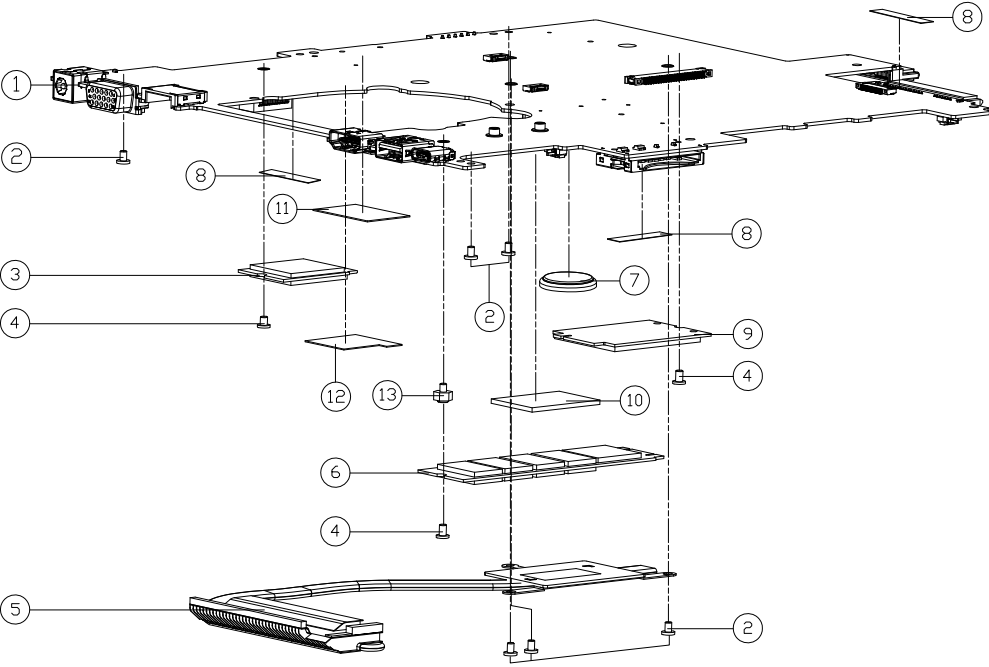
Figure A - 5
HDD Caddy

DVD

Figure A - 6
DVD



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2*3L KI BZ ICT NY (DD=04.5,DT=0.4)	6-35-B6120-3RD	
2	ODD BRACKET SECC W547BL	6-33-W547Z-011	
3	SATA DVD SUPER MULTI 5 1/4" 8X 9.5MM DL-DASHBOX F/W JESD 100A 01 QWIN 00 PLUS	6-85-A088X-L04	FOR PLDS
3	SATA DVD SUPER MULTI 5 1/4" 8X 9.5MM QUDON ROM VER 1.00 QWIN 100 HLDS	6-85-A088X-502	FOR HLDS
4	ODD BEZEL MODULE N750BU	6-42-N750Z-202	
5	SUPER MULTI ODD BEZEL LABEL N650DU	6-45-N650Q-020	



ITEM	PART NAME	PART NO	REMARK
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-2C	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3H	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3F	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3E	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3C	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3D	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3H	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3F	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3E	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3C	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3D	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3H	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3F	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3E	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3C	
1	MINI DIMENSIONAL 7000/240 VESA EPASSEMBLY (LTPM) N750BU	6-77-N750BU00-D02-3D	
2	SCREW M6X4.5 KI NZ TCT NY (D04=4.5, D1=4.0)	6-35-B6120-3RD	
3	W/0 36 RUBBER 25x42x2.5 (LTPM) N750BU	6-88-P655F-4210	OPTION
3	W/0 36 RUBBER 25x42x2.5 (LTPM) N750BU	6-88-P655F-4200	OPTION
3	W/0 36 RUBBER 25x42x2.5 (LTPM) N750BU	6-88-N240F-4200	OPTION
3	W/0 36 RUBBER 25x42x2.5 (LTPM) N750BU	6-88-N25JF-4200	OPTION
4	SCREW M6X4.5 KI NZ TCT NY (D04=4.5, D1=4.0)	6-35-B1120-2R0	
5	CPU HEATSINK MODULE N750BU	6-31-N750N-102	
6	SSD M2 2280 SATA III 128GB (LTPM) N750BU	6-85-D51R6-100	OPTION
6	SSD M2 2280 SATA III 256GB (LTPM) N750BU	6-85-D51R6-S01	OPTION
6	SSD M2 2280 SATA III 512GB (LTPM) N750BU	6-85-D51S8-S01	OPTION
6	SSD M2 2280 SATA III 1TB (LTPM) N750BU	6-85-D51S8-100	OPTION
6	SSD M2 2280 SATA III 2TB (LTPM) N750BU	6-85-D51S8-S03	OPTION
6	SSD M2 2280 SATA III 4TB (LTPM) N750BU	6-85-D511T-Z00	OPTION
6	SSD M2 2280 SATA III 8TB (LTPM) N750BU	6-85-D51S8-101	OPTION
6	SSD M2 2280 SATA III 16TB (LTPM) N750BU	6-85-D51S8-H00	OPTION
6	SSD M2 2280 SATA III 32TB (LTPM) N750BU	6-85-D51S8-H01	OPTION
6	SSD M2 2280 SATA III 64TB (LTPM) N750BU	6-85-D51R6-H02	OPTION
6	SSD M2 2280 SATA III 128TB (LTPM) N750BU	6-85-D513G-Z00	OPTION
7	BATTERY 3V 220MA BBBCR2032B (KTS)	6-23-6A2B2-030	
8	TOP CASE MYLAR FR83 25x70x0.5 P180H	6-40-P1802-030	
9	W/0 36 RUBBER 25x42x2.5 (LTPM) N750BU	6-88-S210W-8810	
9	W/0 36 RUBBER 25x42x2.5 (LTPM) N750BU	6-88-W3306-8841	
9	W/0 36 RUBBER 25x42x2.5 (LTPM) N750BU	6-88-W3306-8830	
10	THERMAL PAD M4500 (17.3x17.3x1.5) N750BU	6-48-N7503-010	
11	W/0 36 RUBBER 25x42x2.5 (LTPM) N750BU	6-47-P6502-020	W/D 3G/LTE1
12	W/0 36 RUBBER 25x42x2.5 (LTPM) N750BU	6-40-N7503-010	
13	SCREW M6X4.5 KI NZ TCT NY (D04=4.5, D1=4.0)	6-35-ZA120-2RS-1	FDR W/D M2 SSD

Figure A - 7
HDD

Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the *N750BU* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

Diagram - Page	Diagram - Page	Diagram - Page
System Block Diagram - Page B - 2	Panel, Inverter - Page B - 16	VDDQ_VTT, 1.8VA - Page B - 30
Processor 1/11 - Page B - 3	VGA RTD2168 - Page B - 17	1.0V Series - Page B - 31
Processor 2/11 - Page B - 4	Card Reader & LAN RTL8411B - Page B - 18	RT3601BC - Page B - 32
Processor 3/11 - Page B - 5	HDMI, RJ45, Fan, TPM - Page B - 19	VCORE, VCCGT, VCCSA, VCCIO - Page B - 33
Processor 4/11 - Page B - 6	M.2 (WLAN, 3G, SSD) - Page B - 20	Charger, DC-In - Page B - 34
Processor 5/11 - Page B - 7	Audio Codec - Page B - 21	LID SW Board - Page B - 35
Processor 6/11 - Page B - 8	ASM1142 - Page B - 22	Audio Board - Page B - 36
Processor 7/11 - Page B - 9	ASM 1142 Power - Page B - 23	Click Board - Page B - 37
Processor 8/11 - Page B - 10	USB - Page B - 24	Caddy Bay Board - Page B - 38
Processor 9/11 - Page B - 11	CCD, MIC, LID, I/O Connector - Page B - 25	Option BOM List - Page B - 39
Processor 10/11 - Page B - 12	HDD, ODD, LED - Page B - 26	
Processor 11/11 - Page B - 13	KBC ITE IT8587 - Page B - 27	
DDR4 SO-DIMM_0 - Page B - 14	3V, 5V, 3VS, 5VS, CTL Signal - Page B - 28	
DDR4 SO-DIMM_1 - Page B - 15	VDD3, VDD5 - Page B - 29	

Table B - 1
**SCHEMATIC
DIAGRAMS**

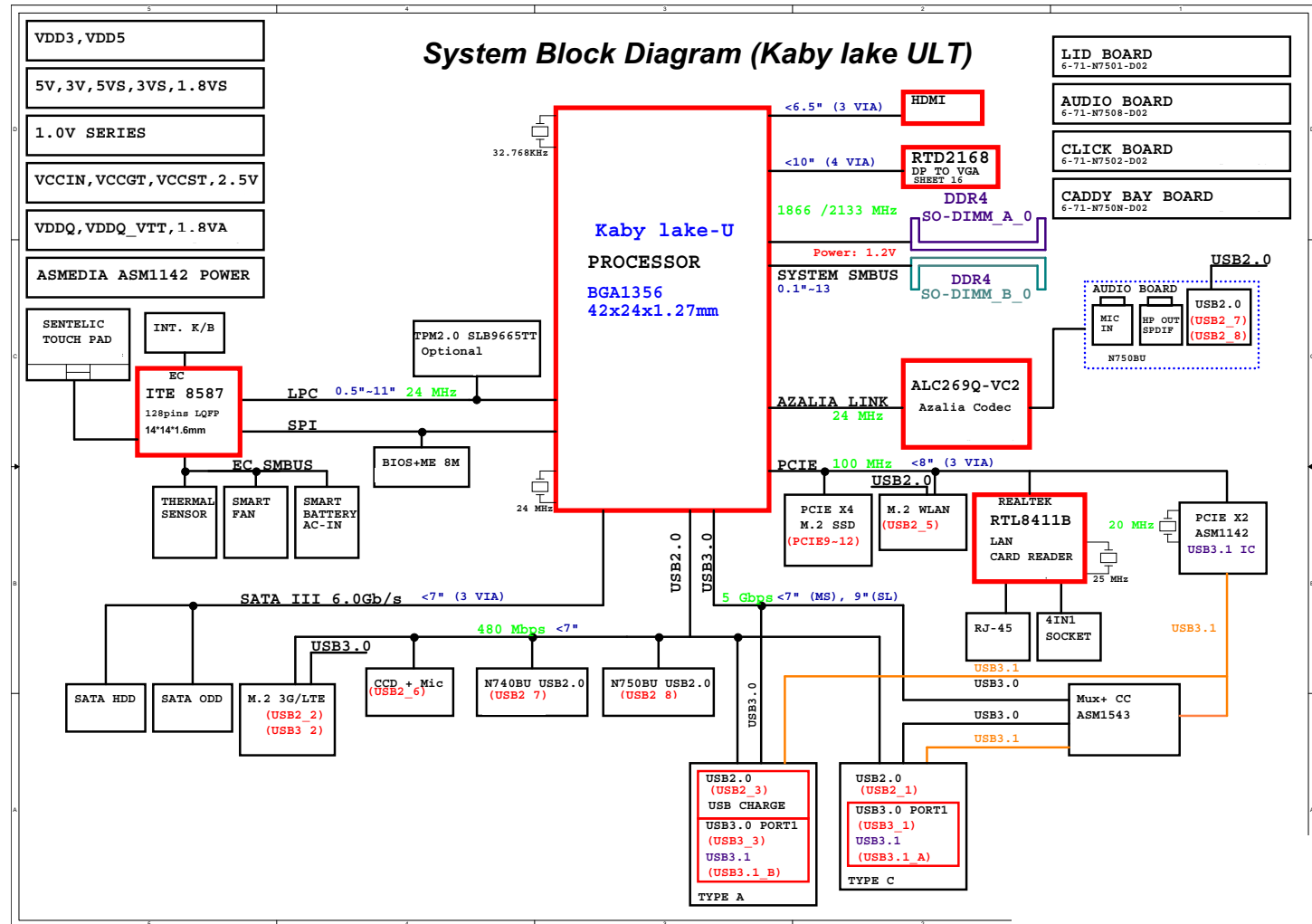


Version Note

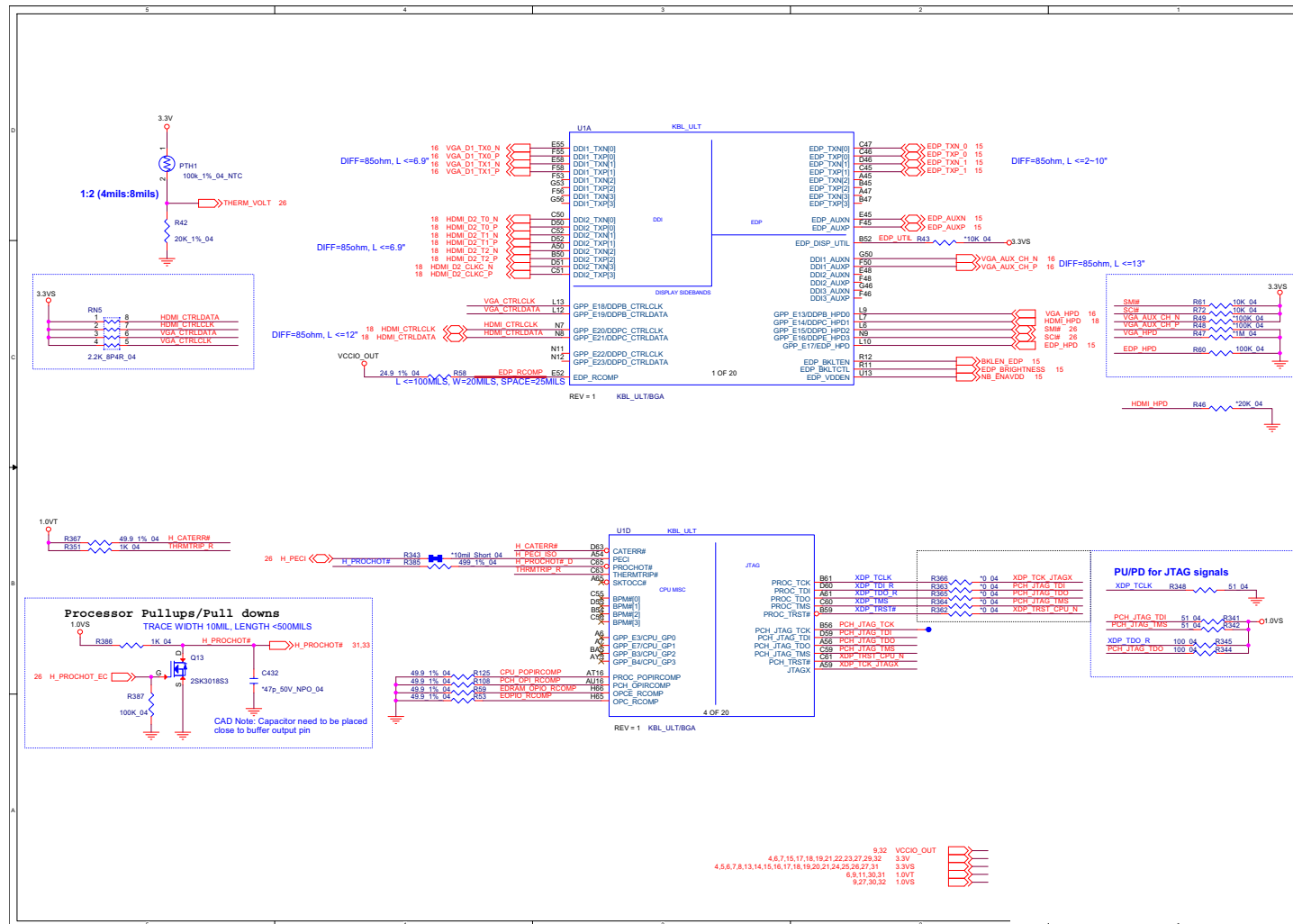
The schematic diagrams in this chapter are based upon version 6-7P-N7505-002. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

System Block Diagram

Sheet 1 of 41
System Block
Diagram

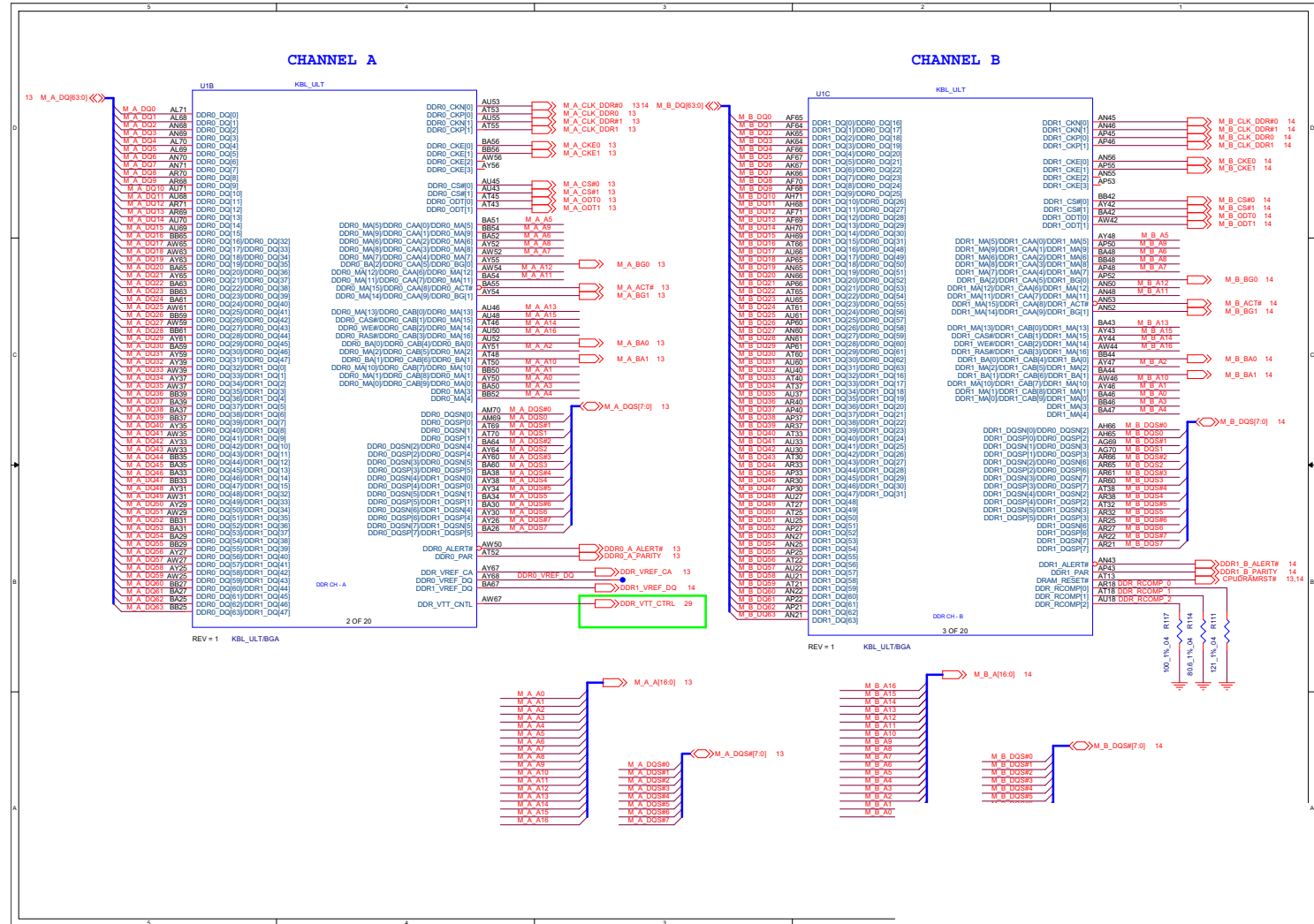


Processor 1/11 B - 3

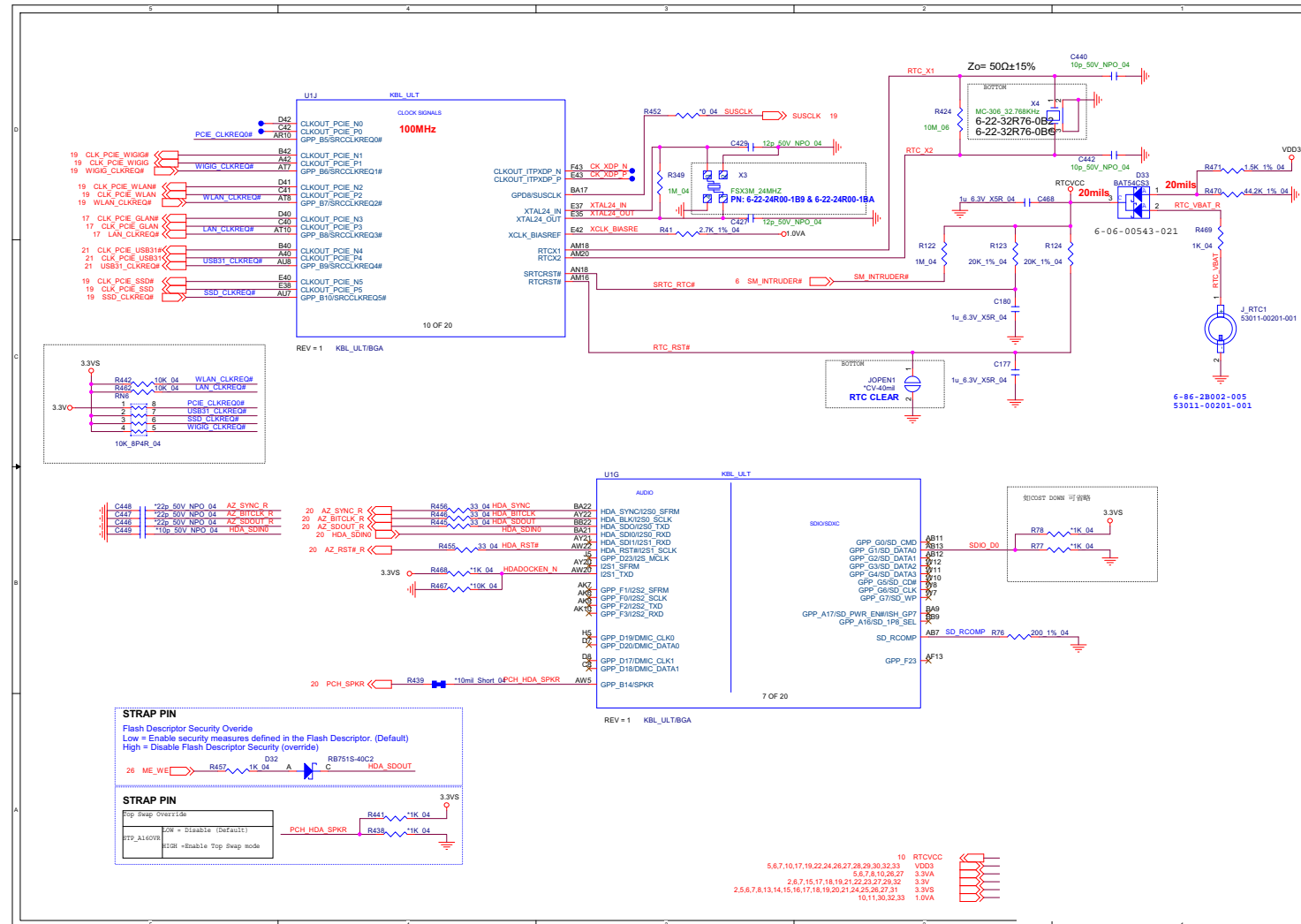


Schematic Diagrams

Processor 2/11



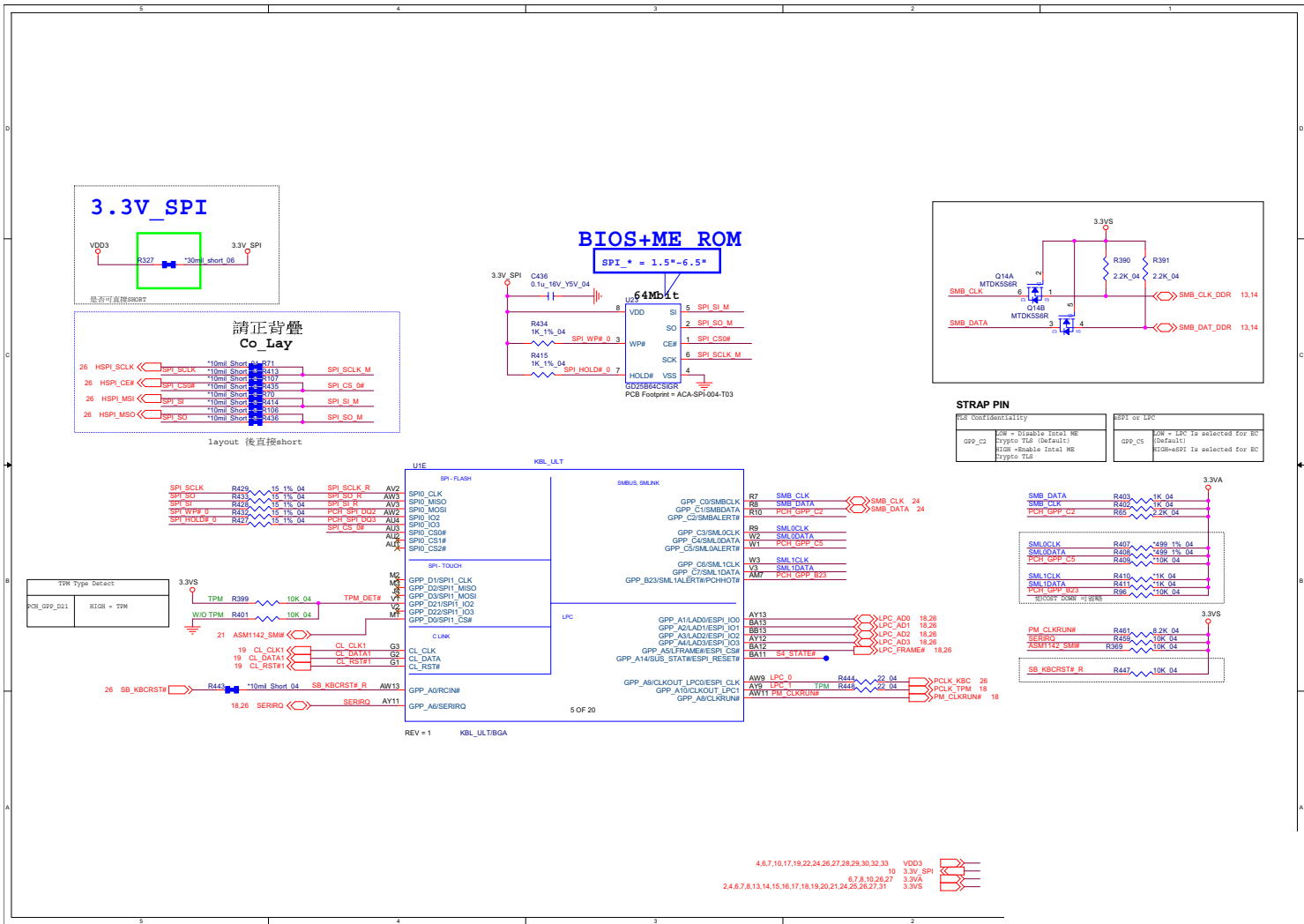
Processor 3/11

Sheet 4 of 41
Processor 3/11

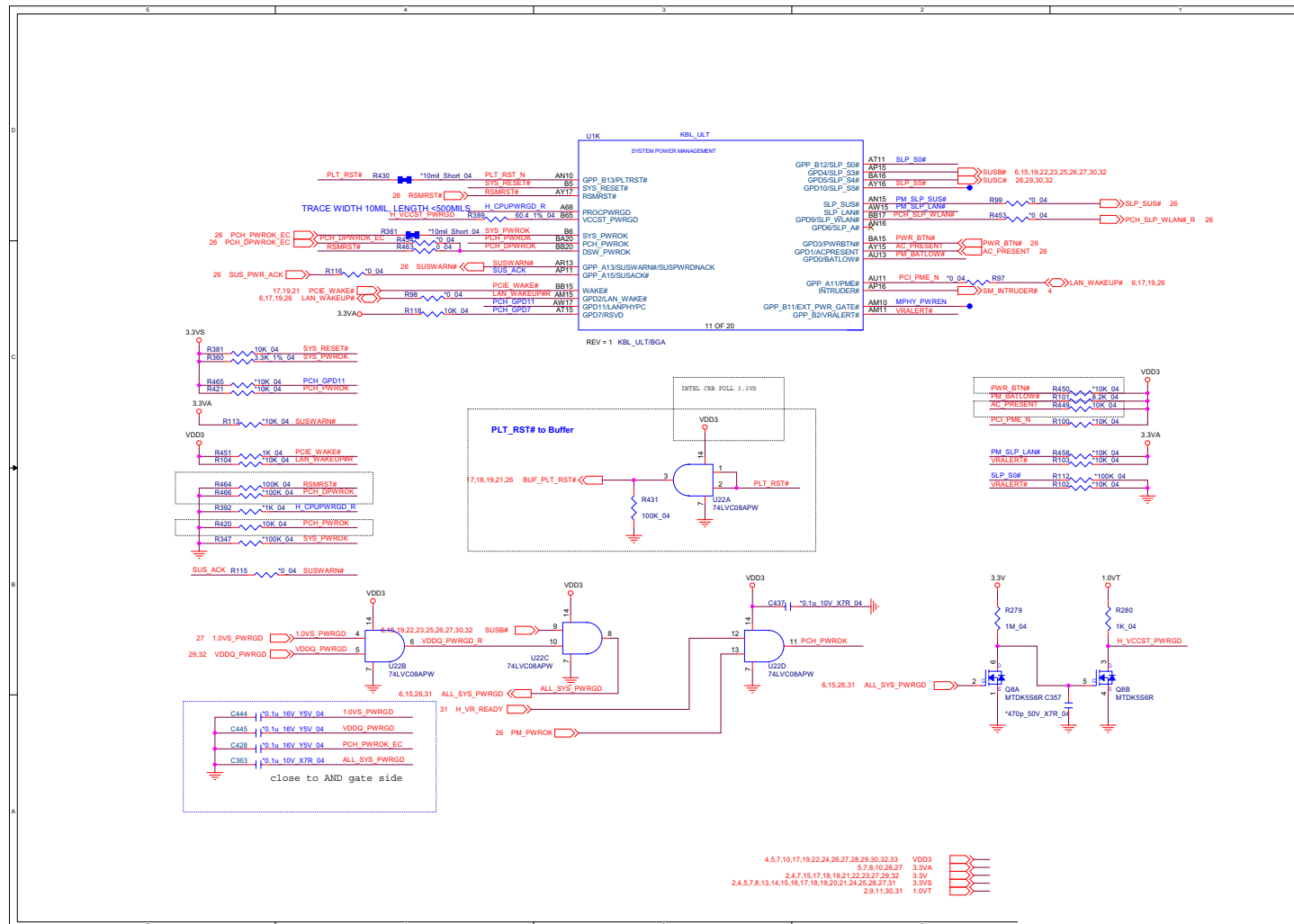
Schematic Diagrams

Processor 4/11

Sheet 5 of 41
Processor 4/11



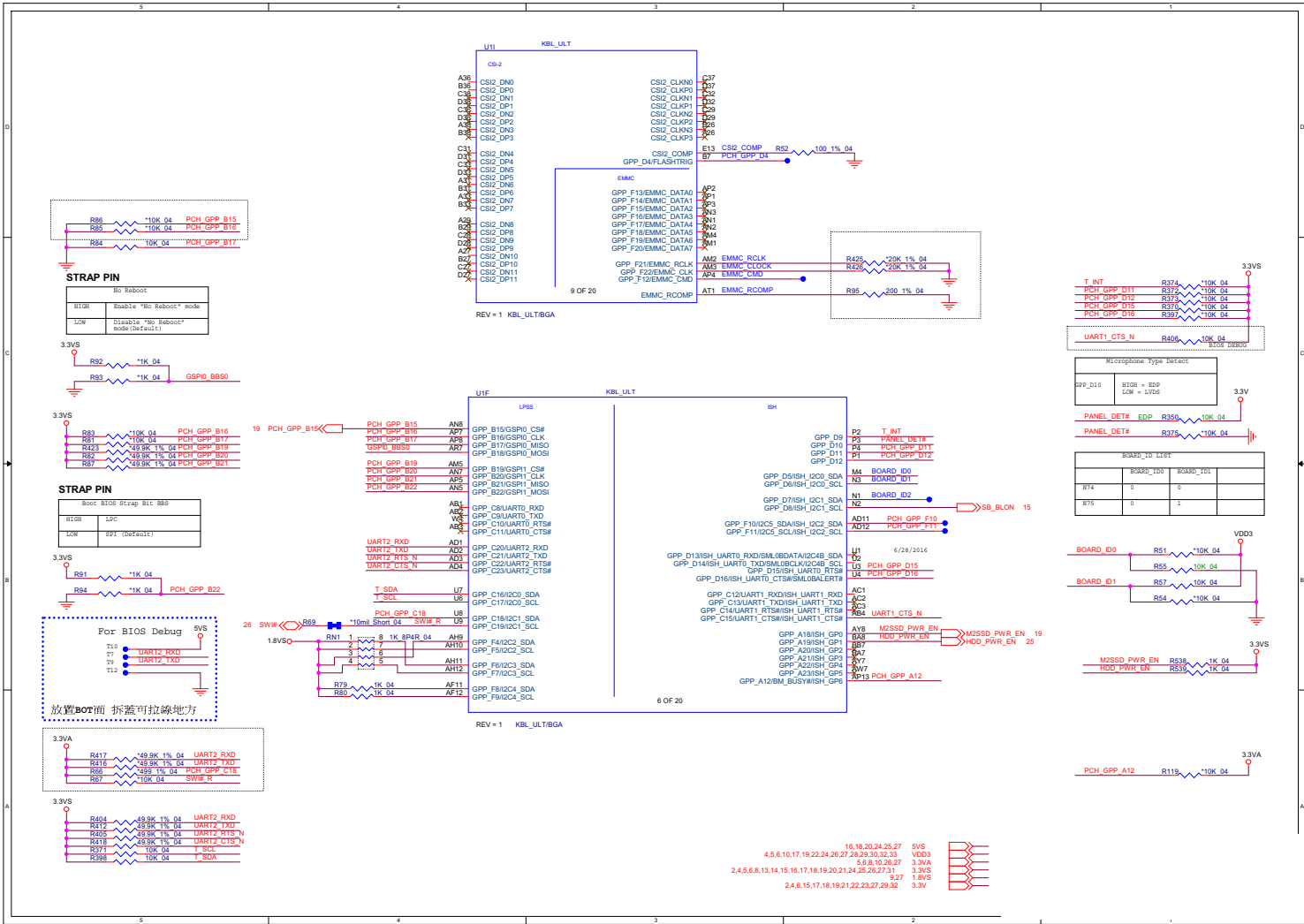
Processor 5/11

Sheet 6 of 41
Processor 5/11

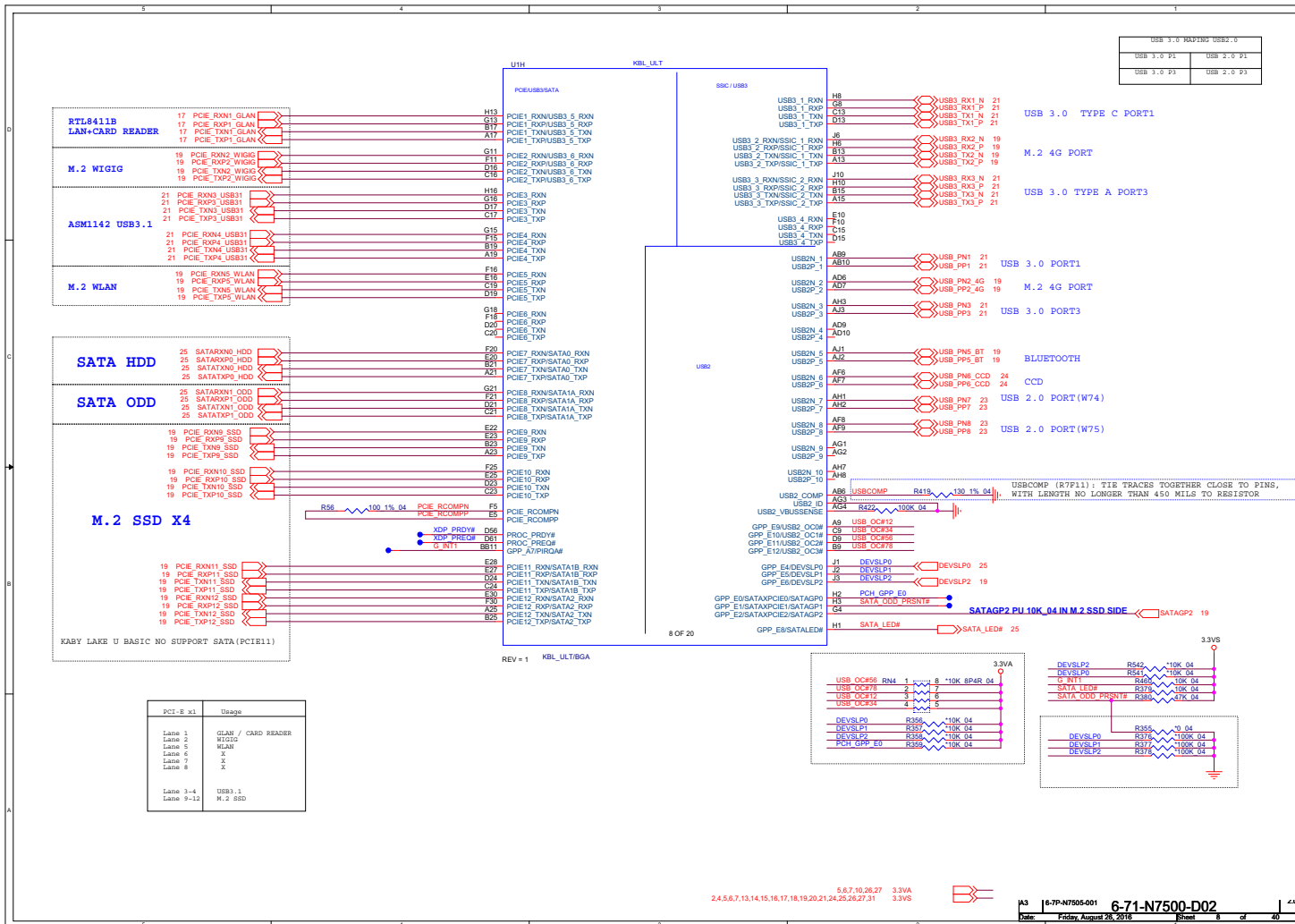
Processor 6/11

B. Schematic Diagrams

Sheet 7 of 41
Processor 6/11

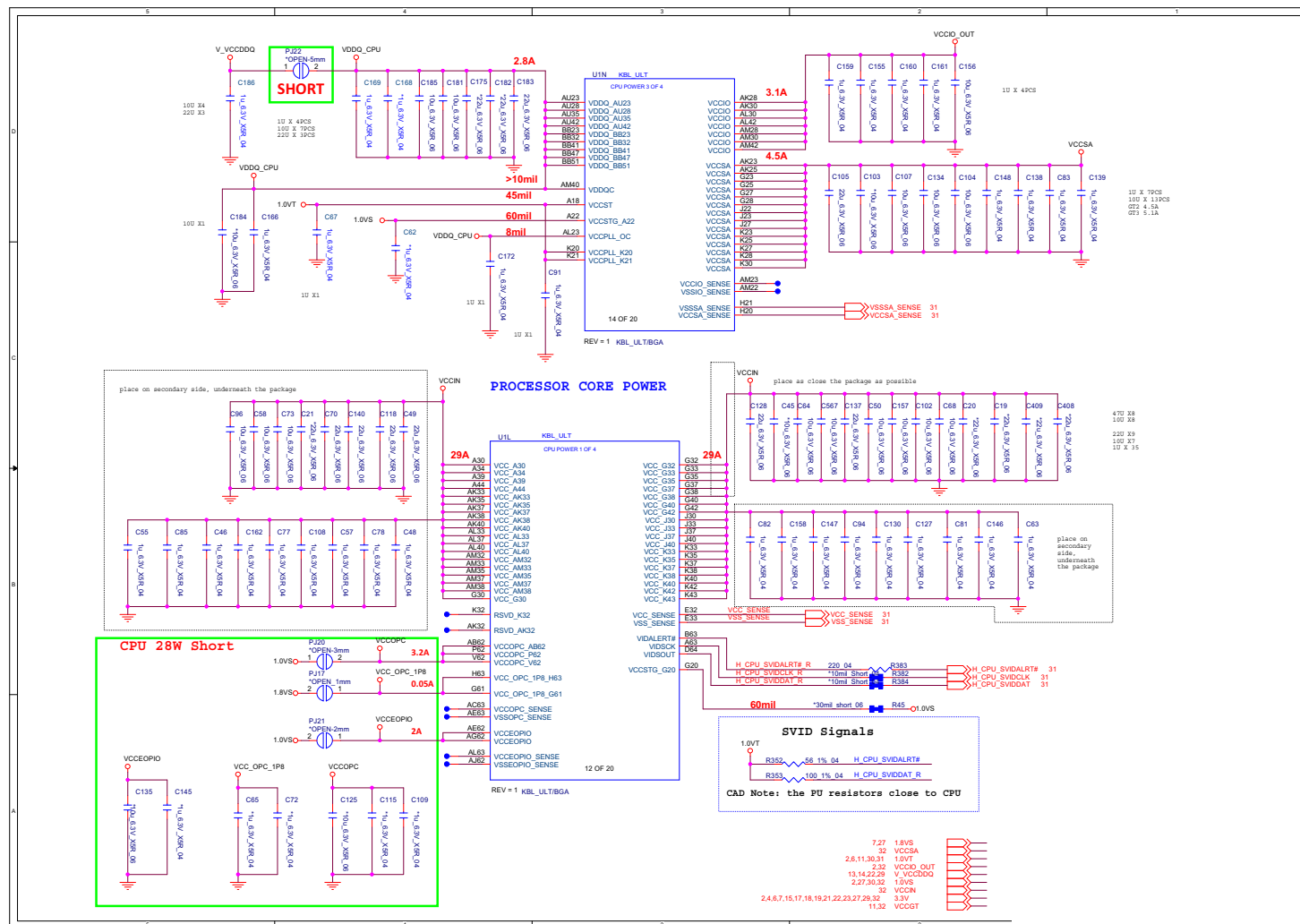


Processor 7/11

Sheet 8 of 41
Processor 7/11

Processor 8/11

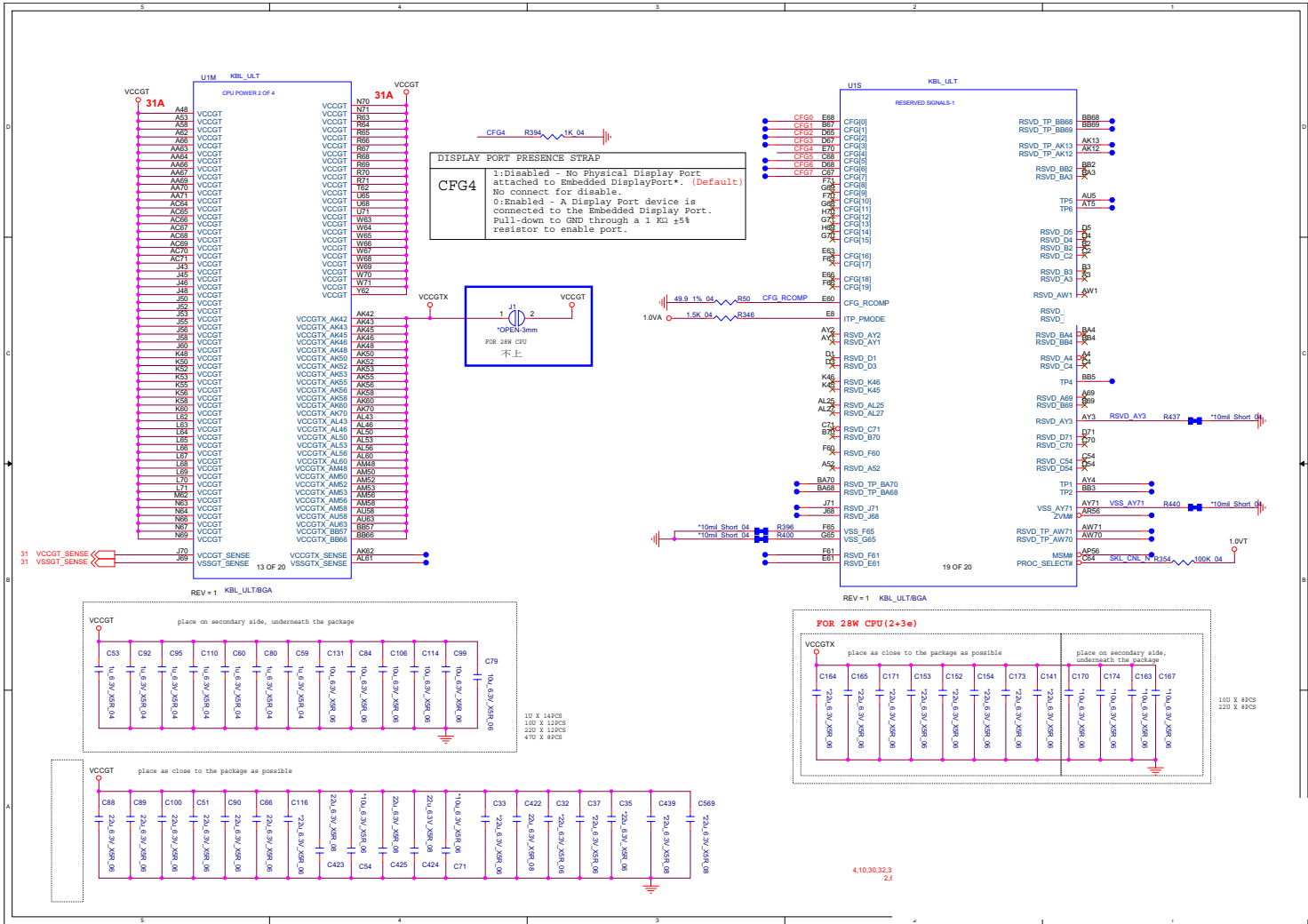
Sheet 9 of 41
Processor 8/11



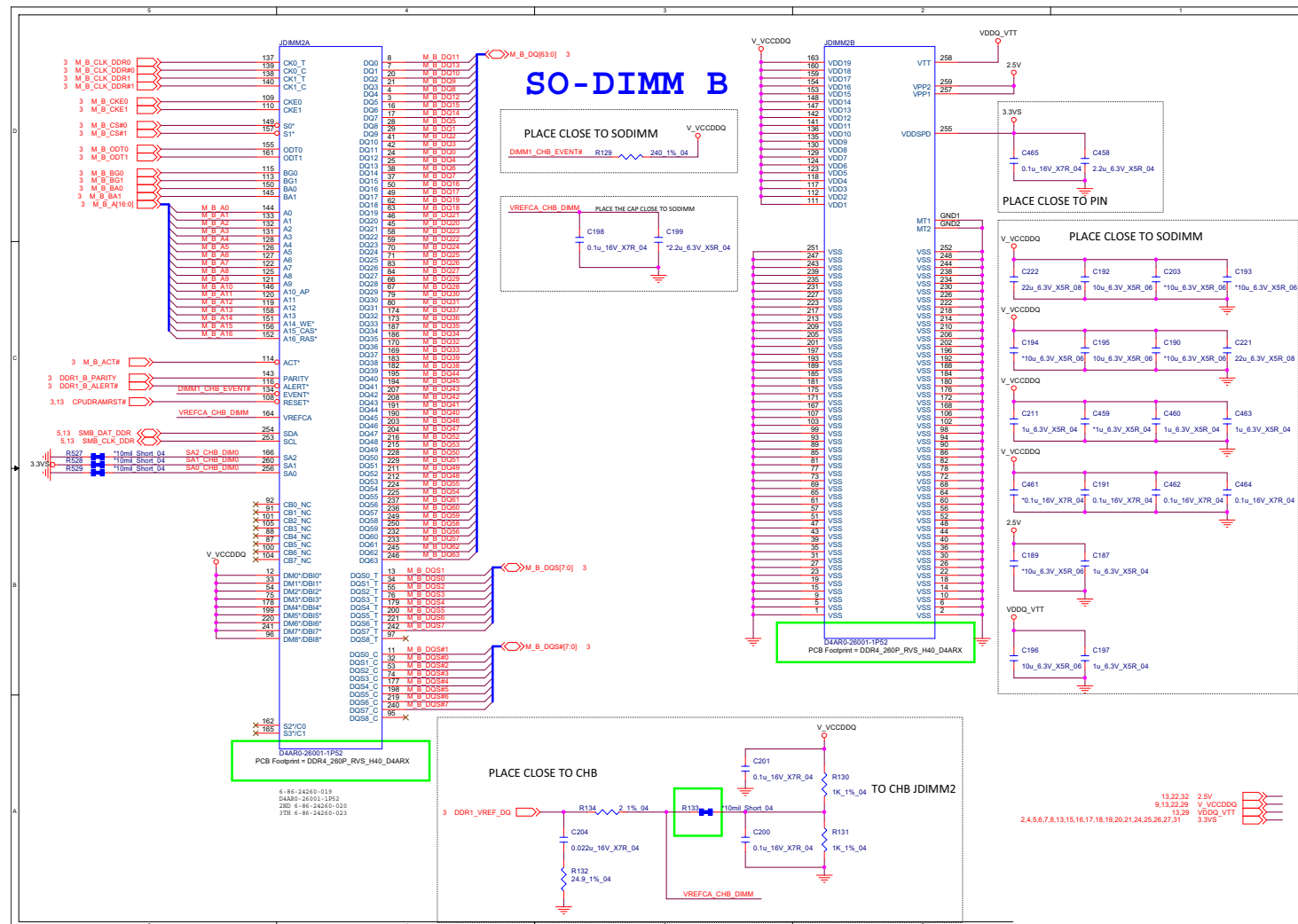
Processor 10/11

B.Schematic Diagrams

Sheet 11 of 41
Processor 10/11



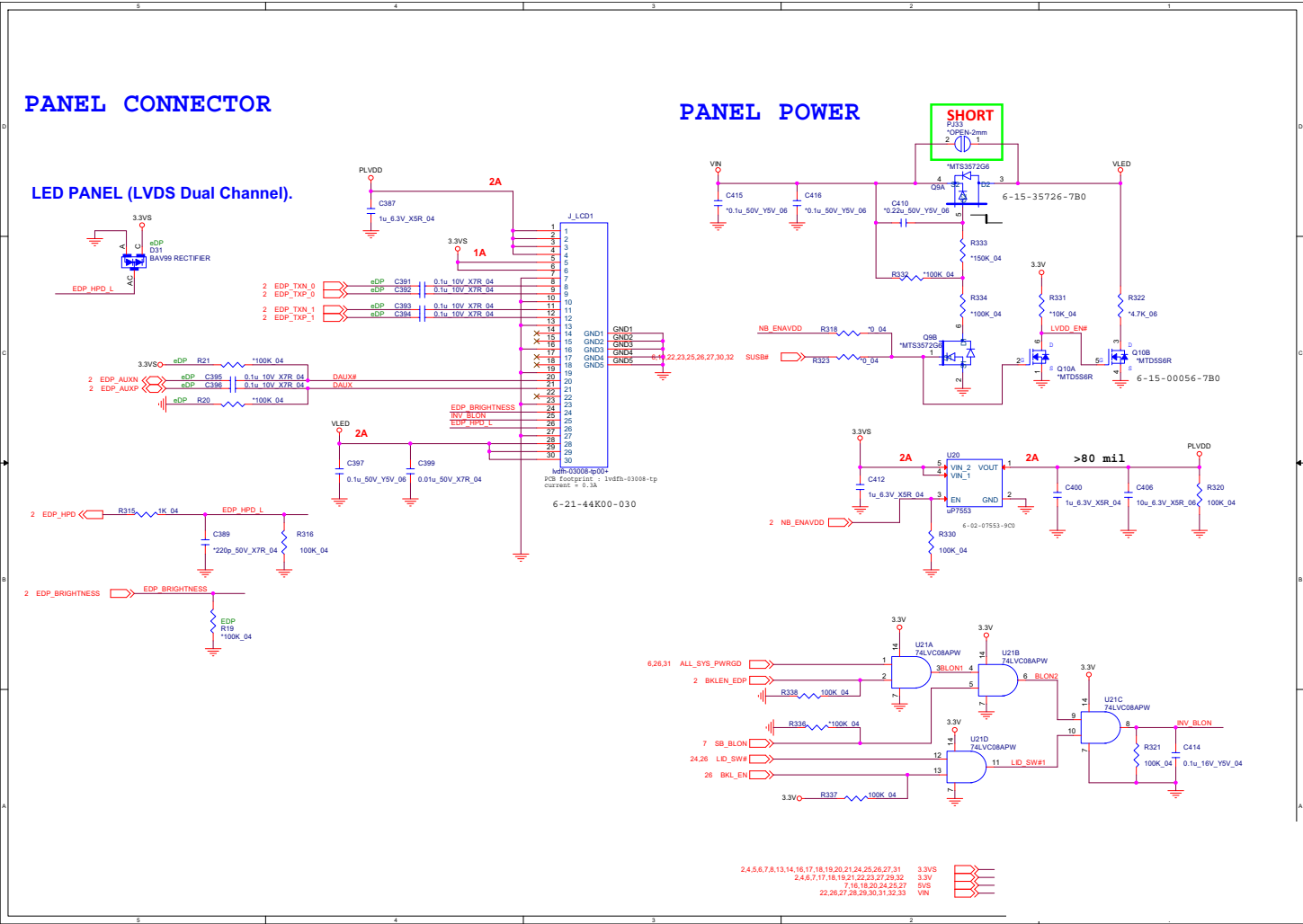
DDR4 SO-DIMM_1 B - 15



Schematic Diagrams

Panel, Inverter

Sheet 15 of 41
Panel, Inverter



VGA RTD2168 B - 17

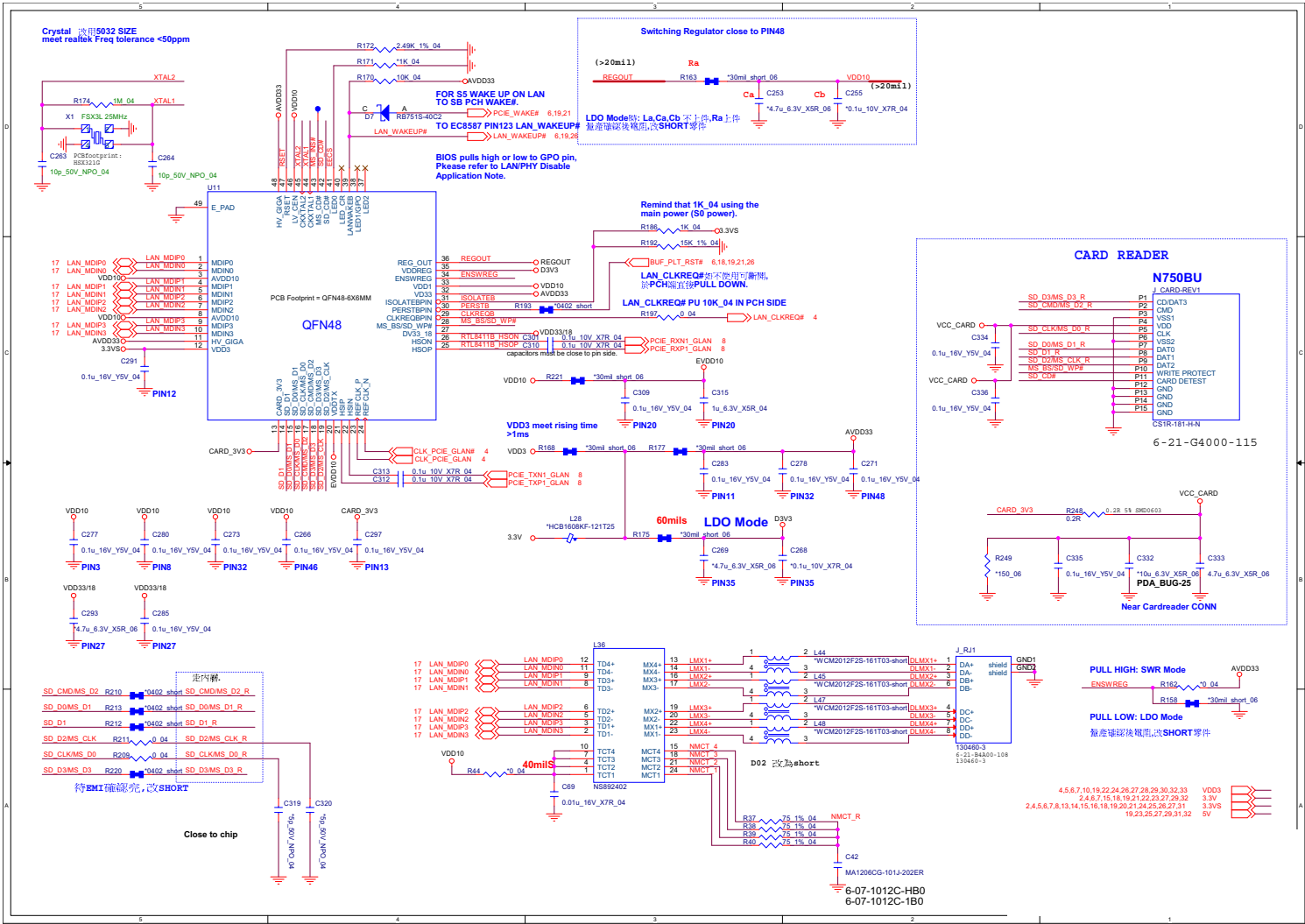
B.Schematic Diagrams



Schematic Diagrams

Card Reader & LAN RTL8411B

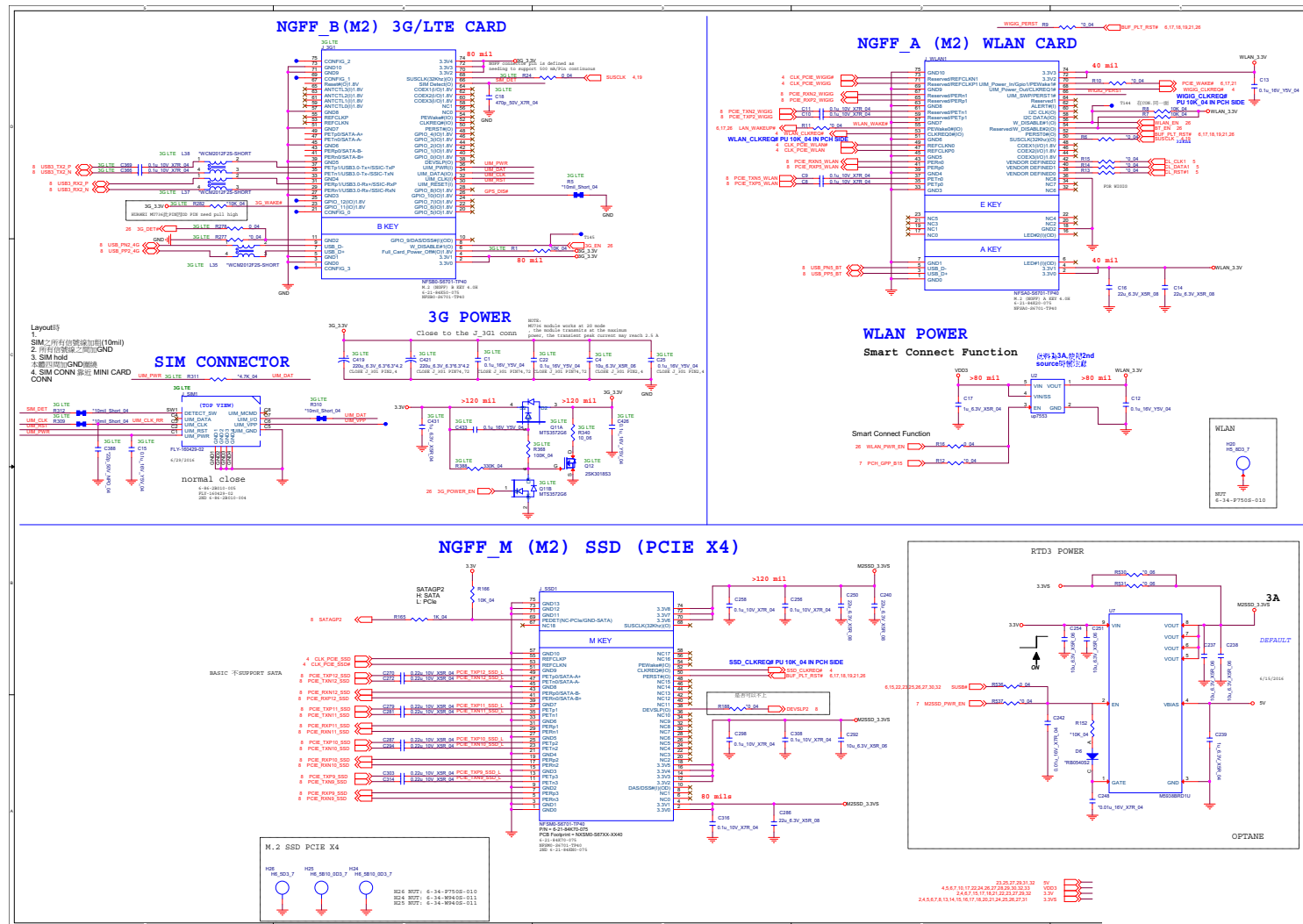
Sheet 17 of 41
Card Reader & LAN
RTL8411B



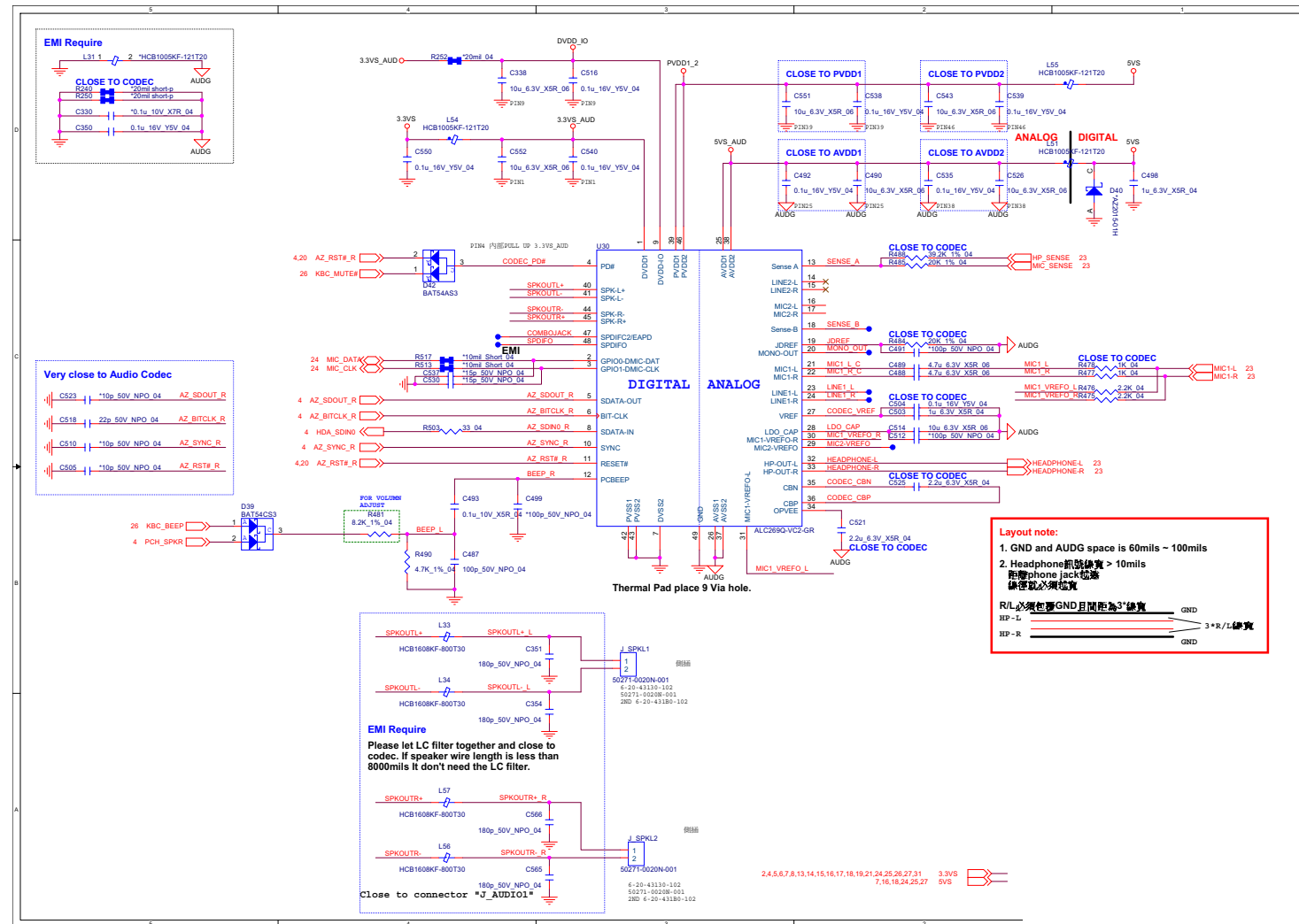
Schematic Diagrams

M.2 (WLAN, 3G, SSD)

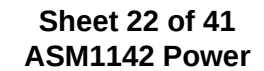
Sheet 19 of 41
M.2 (WLAN, 3G,
SSD)



Audio Codec

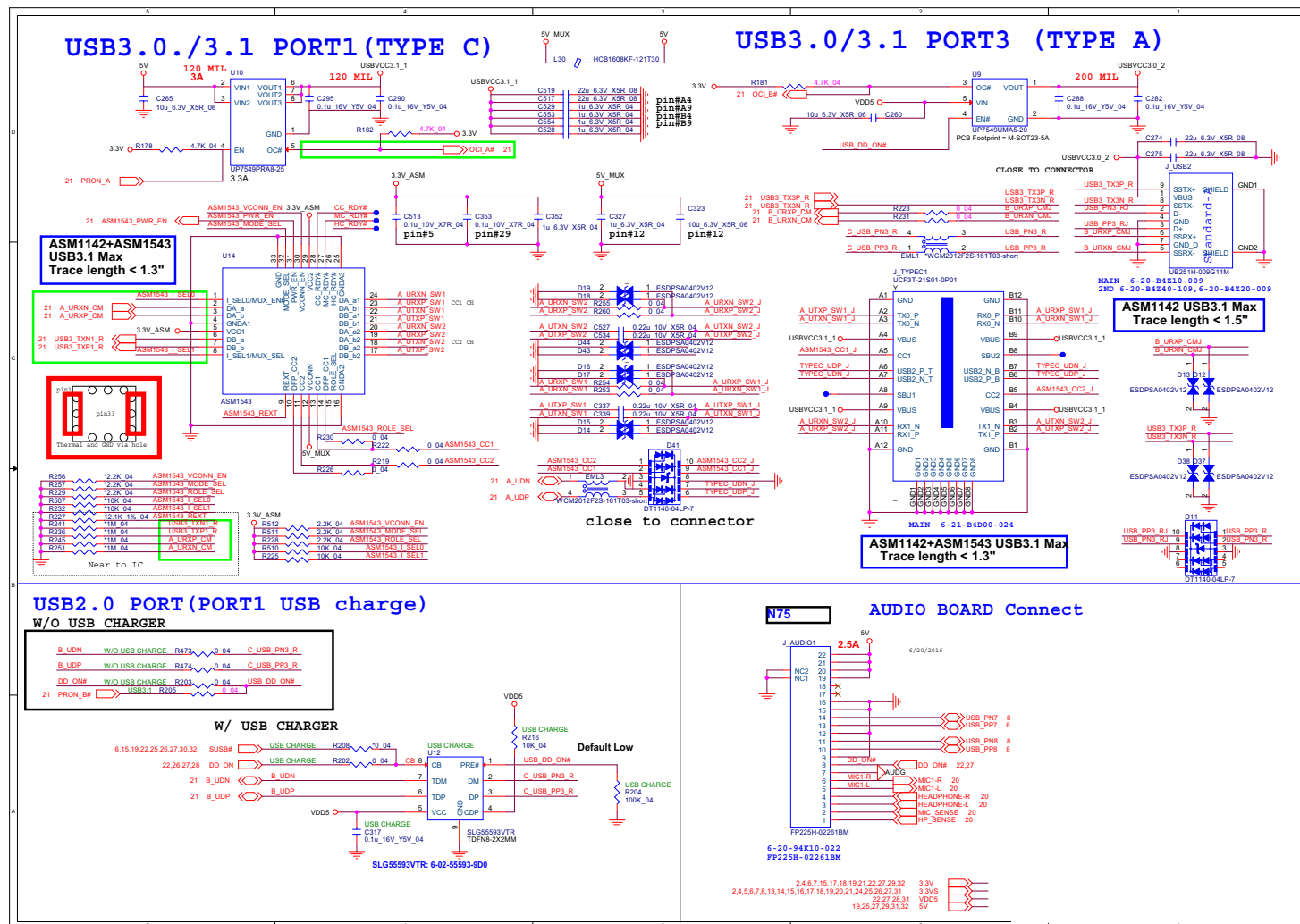
Sheet 20 of 41
Audio Codec

ASM 1142 Power B - 23

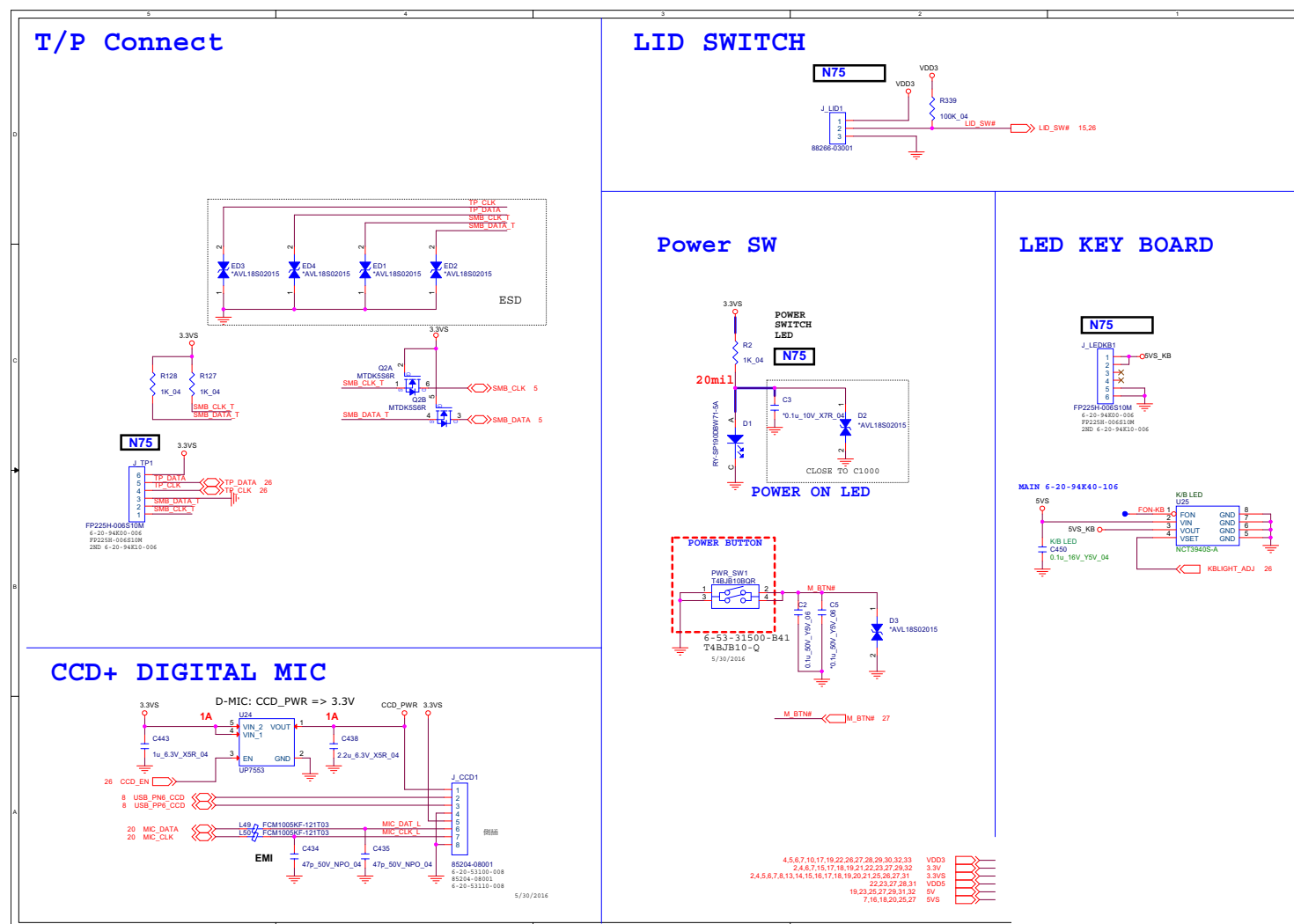


USB

B.Schematic Diagrams



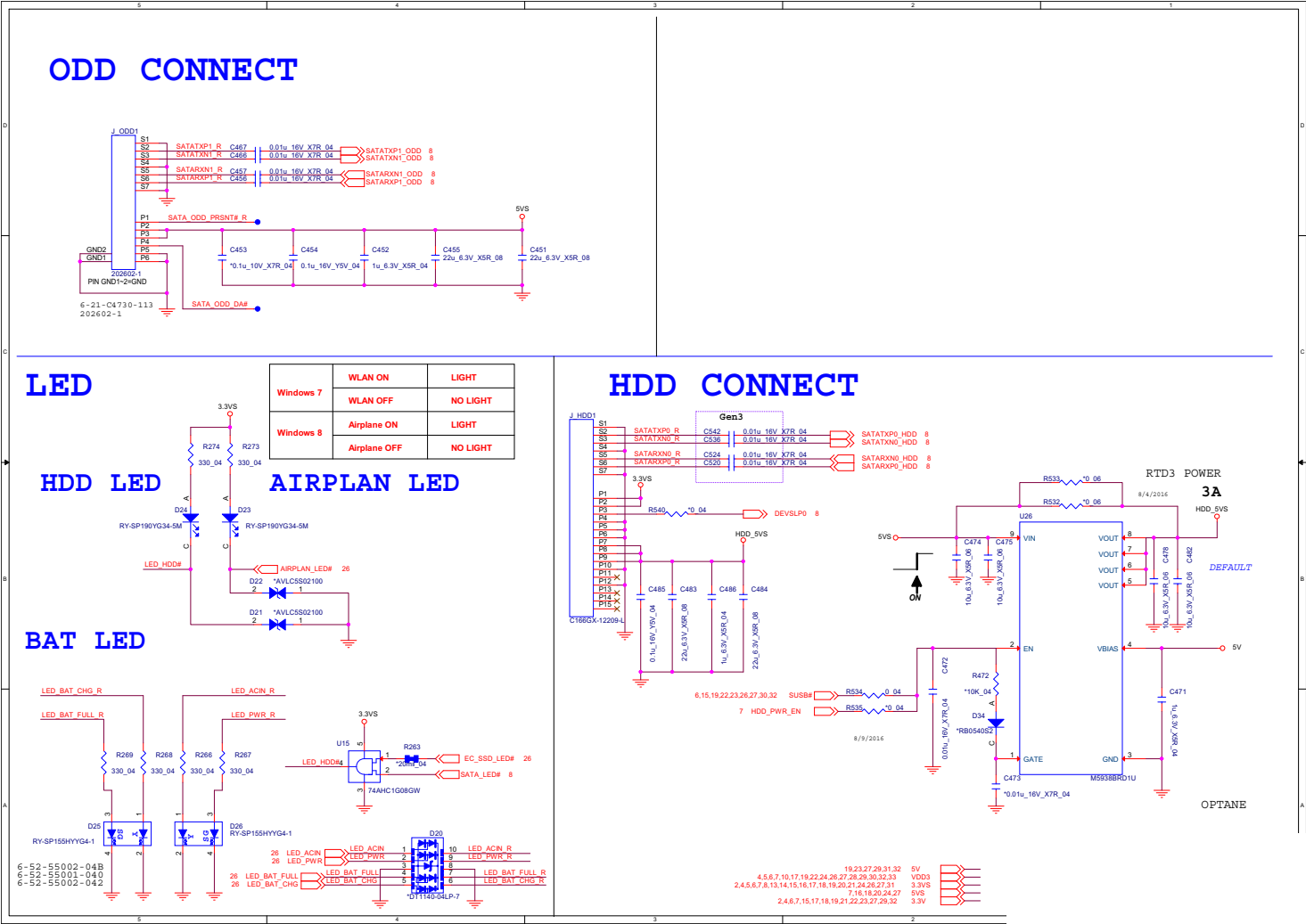
CCD, MIC, LID, I/O Connector



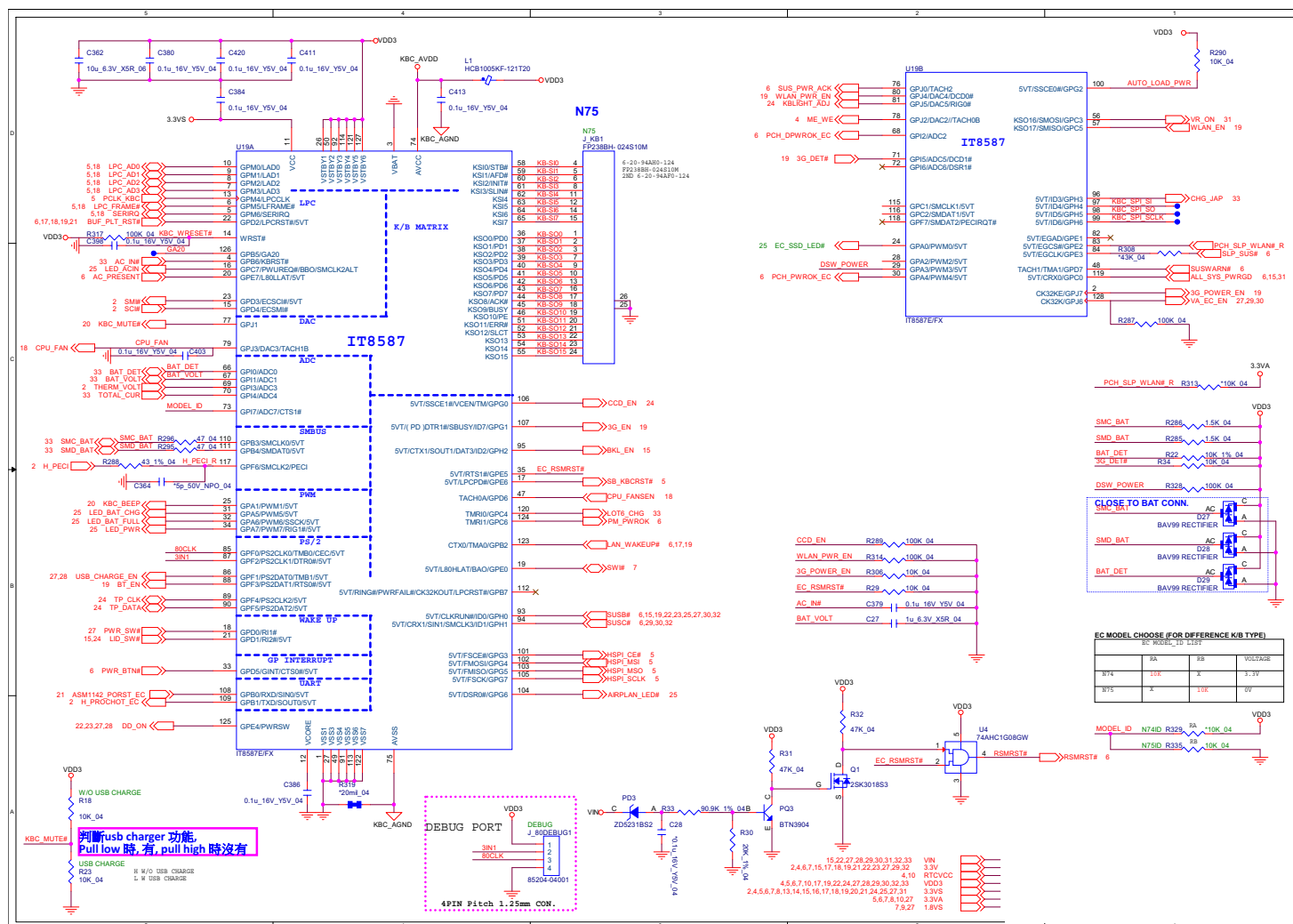
Sheet 24 of 41
CCD, MIC, LID, I/O
Connector

HDD, ODD, LED

Sheet 25 of 41
HDD, ODD, LED

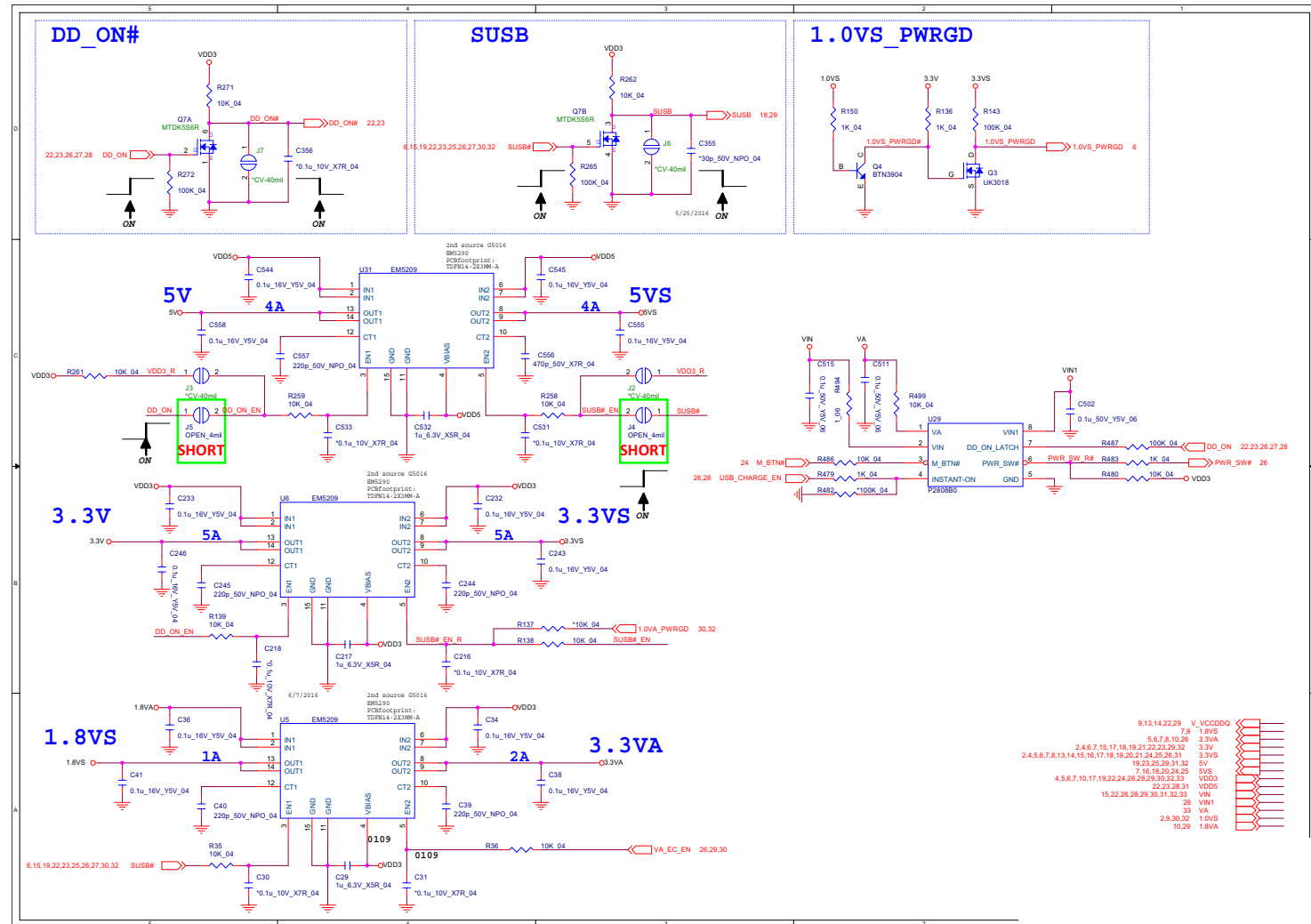


KBC ITE IT8587 B - 27



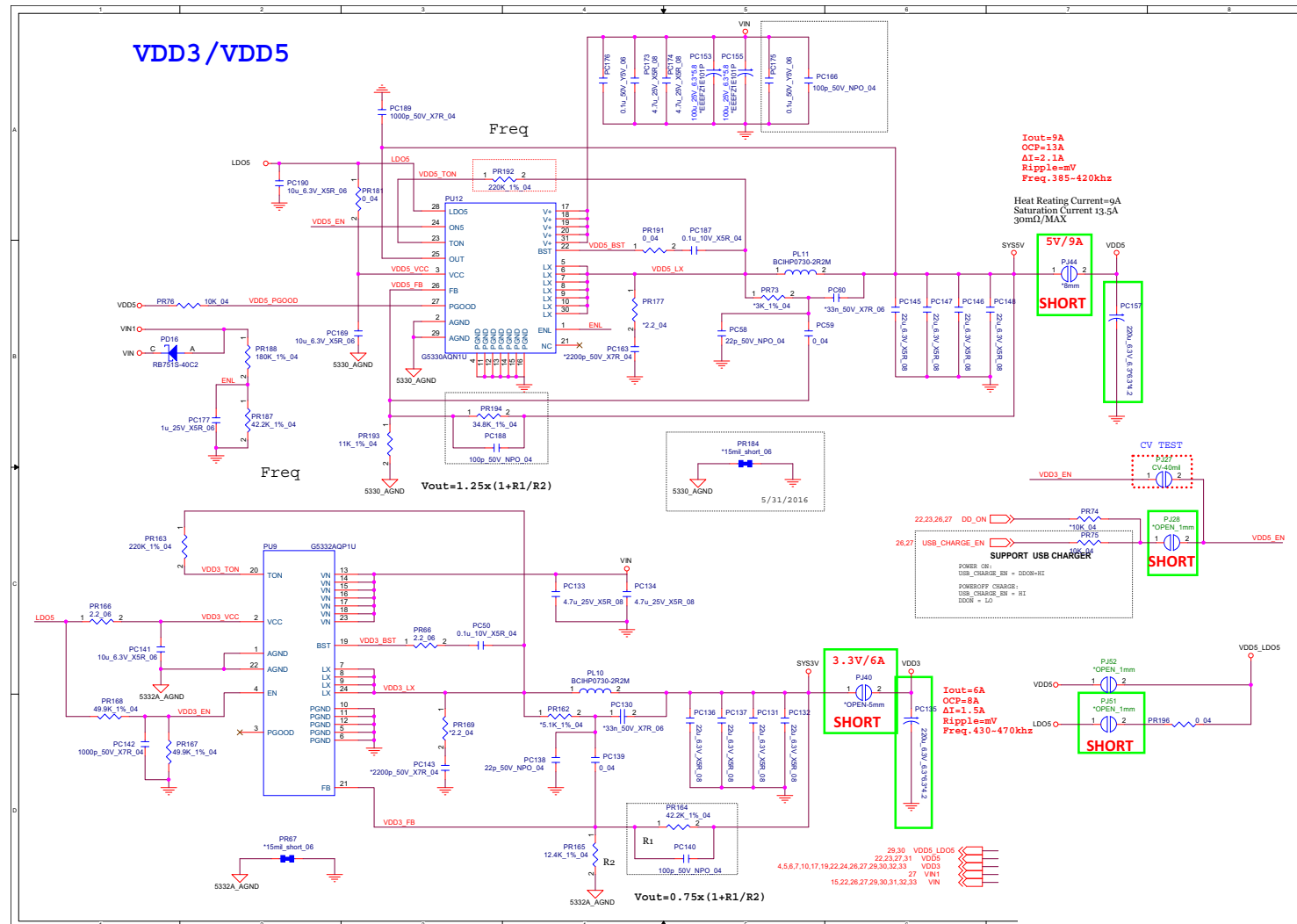
Schematic Diagrams

3V, 5V, 3VS, 5VS, CTL Signal



Sheet 27 of 41
3V, 5V, 3VS, 5VS,
CTL Signal

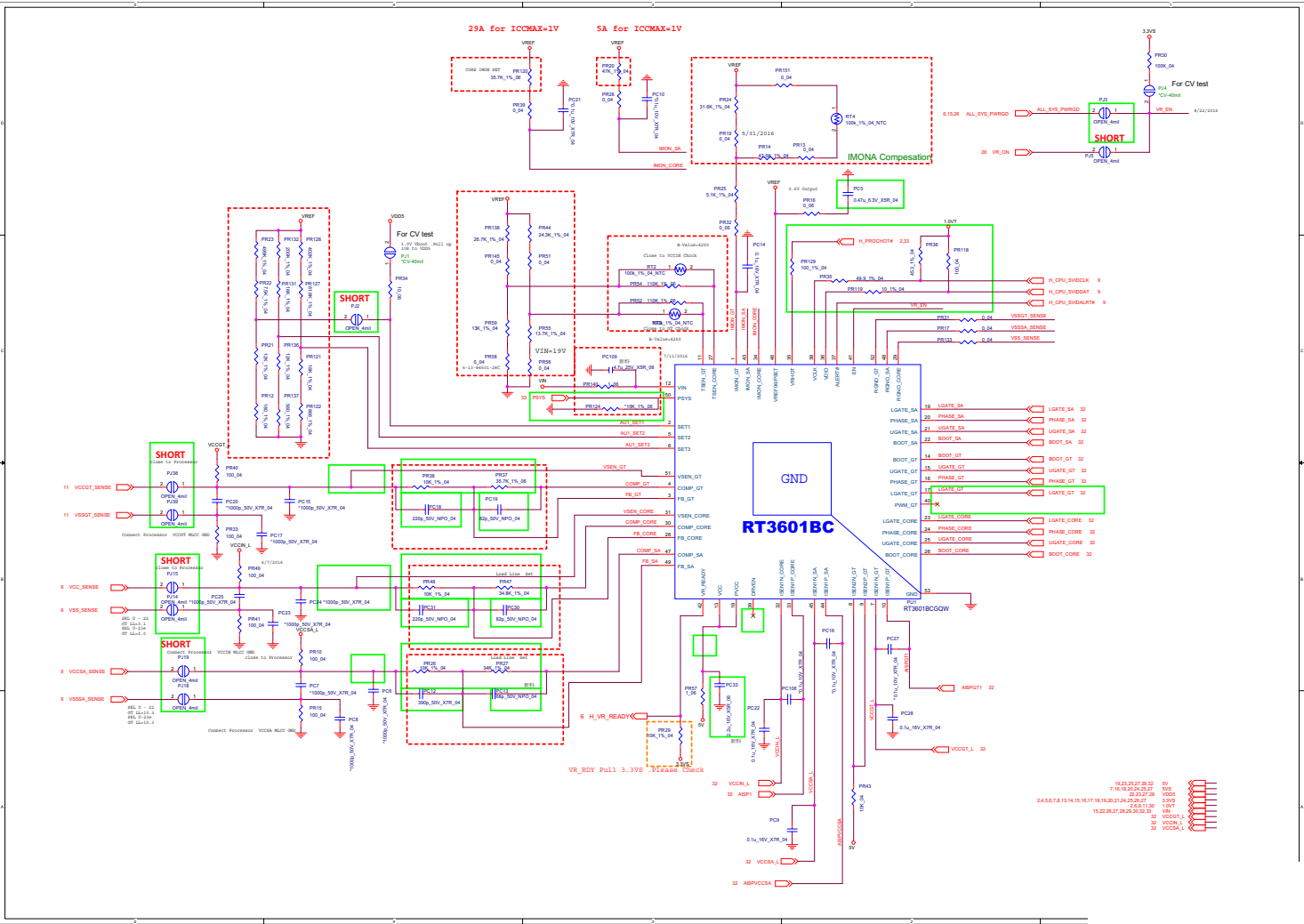
VDD3, VDD5

Sheet 28 of 41
VDD3, VDD5

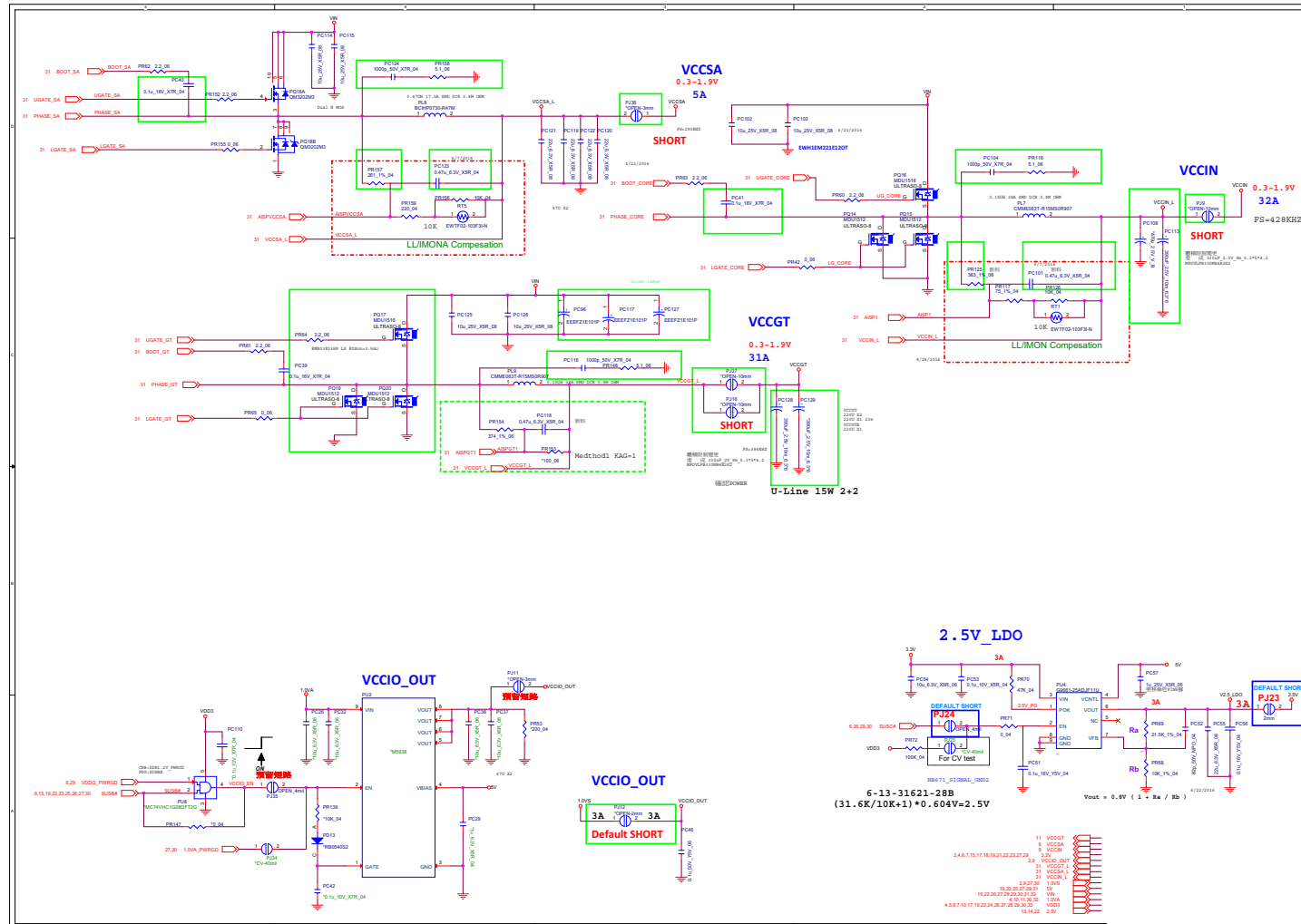
Schematic Diagrams

RT3601BC

Sheet 31 of 41
RT3601BC

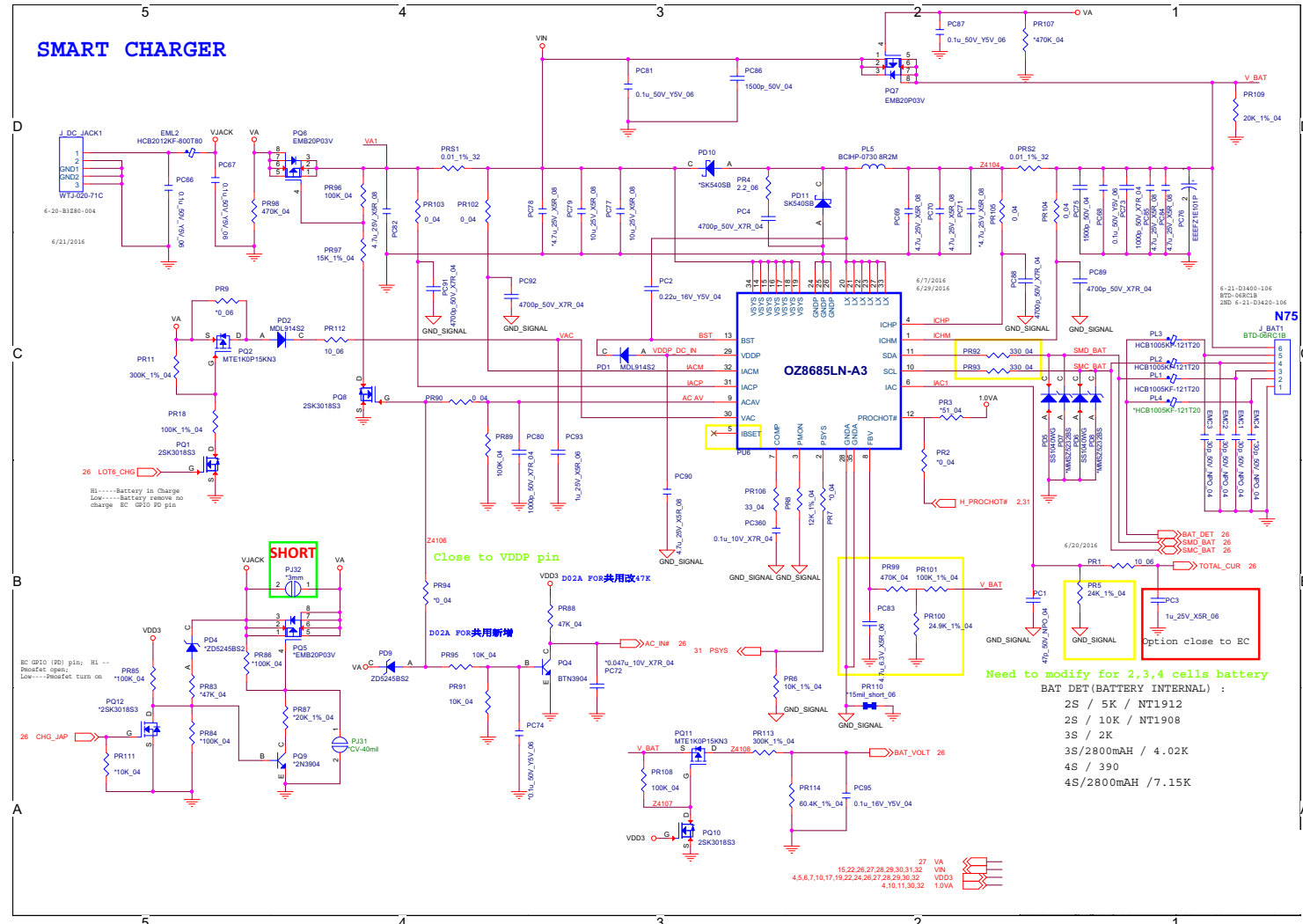


VCORE, VCCGT, VCCSA, VCCIO

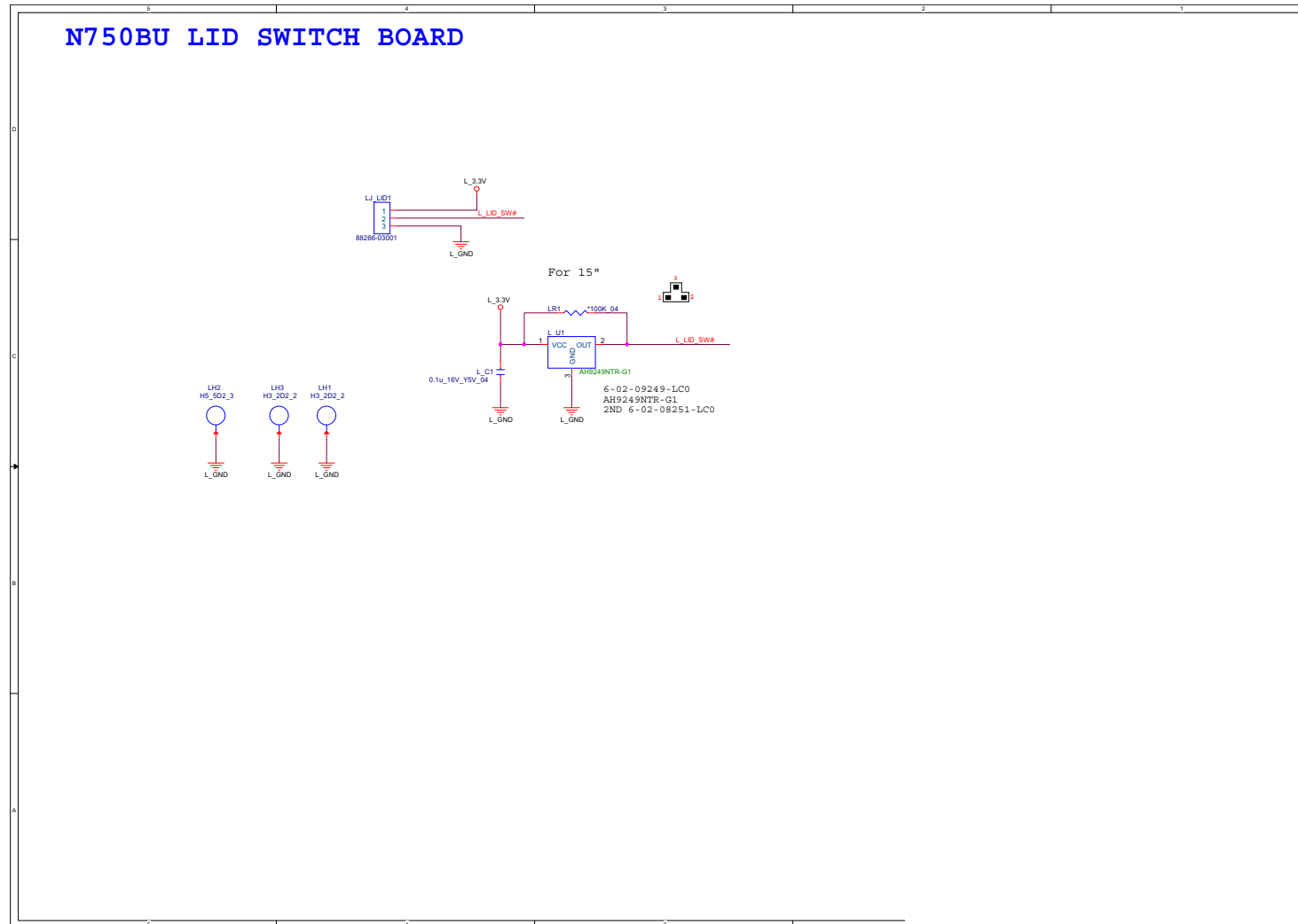


Charger, DC-In

Sheet 33 of 41
Charger, DC-In



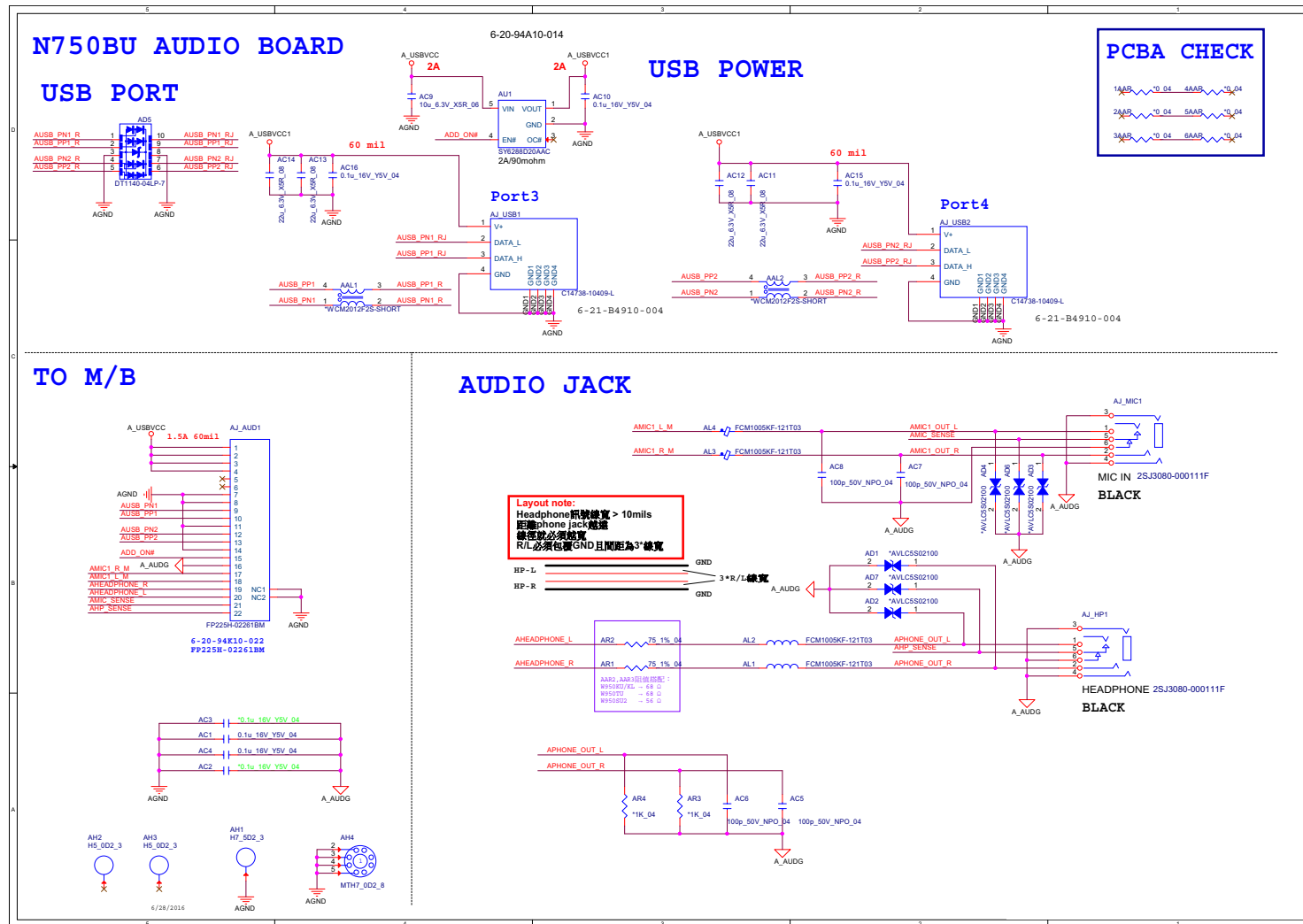
LID SW Board

Sheet 34 of 41
LID SW Board

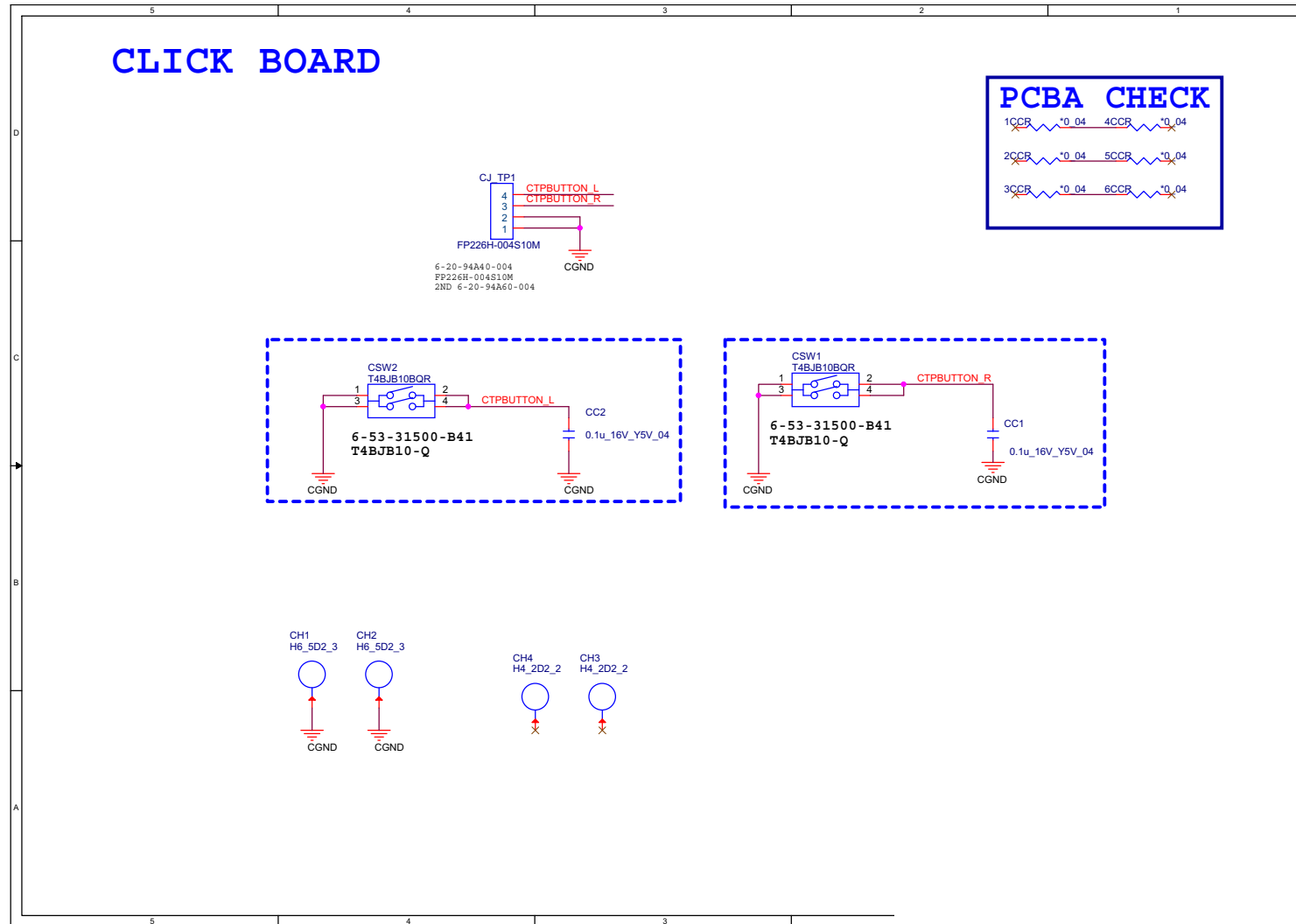
Schematic Diagrams

Audio Board

Sheet 35 of 41
Audio Board

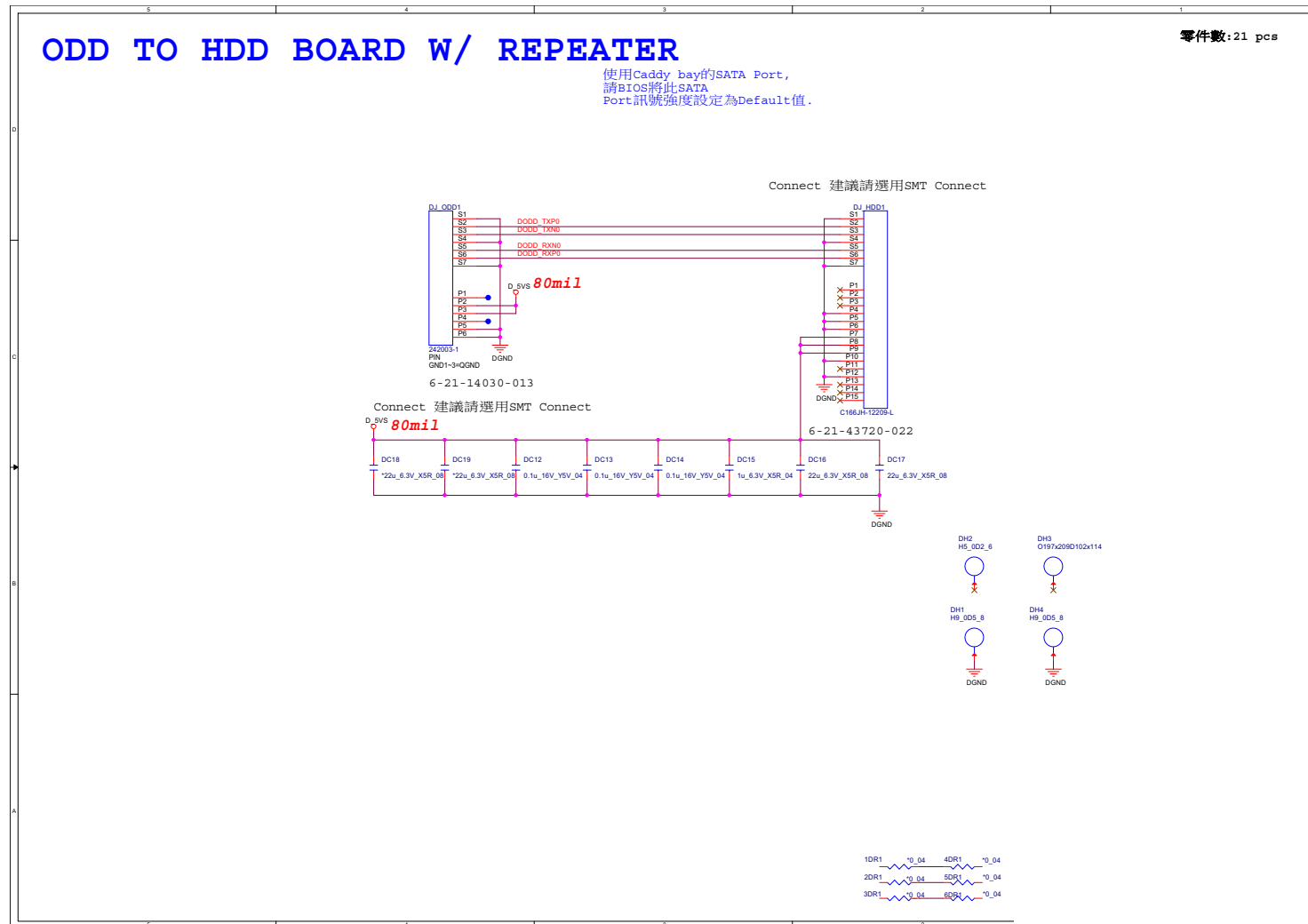


Click Board

Sheet 36 of 41
Click Board

Schematic Diagrams

Caddy Bay Board

Sheet 37 of 41
Caddy Bay Board

Option BOM List

Function item	ADD	DEL	Function item	ADD	DEL
TPM	R399 (ID) , U3, R25, R448, C26, C24, R27, C23, C7	R401 (ID)	USB3.0	C321, C325, C328, C329, R185, R190, R196, R200, R214, R217, R243, R246	X2, U13, U8, D10, C548, C560, C564, C547, C324, C497, C506, C507, C508, C509, C340, C276, C562, C563, C322, C326, C341, C342, C343, C344, C345, C346, C347, C348, C494, C522, C261, C289, C296, C299, C300, C302, C304, C305, C307, C331, C349, C495, C496, C500, C501, C559, C561, R508, R184, R189, R195, R199, R205, R215, R218, R224, R233, R235, R239, R242, R244, R247, R497, R498, R505, R173, R191, R198, R518, R519, R183, R167, R201, R491, R492, R493, R495, U32, Q6, L32, L52
W/O TPM	R401	R399 (ID) , U3, R25, R448, C26, C24, R27, C23, C7	USB3.1	X2, U13, U8, D10, C548, C560, C564, C547, C324, C497, C506, C507, C508, C509, C340, C276, C562, C563, C322, C326, C341, C342, C343, C344, C345, C346, C347, C348, C494, C522, C261, C289, C296, C299, C300, C302, C304, C305, C307, C331, C349, C495, C496, C500, C501, C559, C561, R508, R184, R189, R195, R199, R205, R215, R218, R224, R233, R235, R239, R242, R244, R247, R497, R498, R505, R173, R191, R198, R518, R519, R183, R167, R201, R491, R492, R493, R495, U32, Q6, L32, L52	C321, C325, C328, C329, R185, R190, R196, R200, R214, R217, R243, R246
USB Charger	R23 (ID) , U12, R202, C317, R216, R204,	R18, R203, R473, R474			
W/O USB Charger	R18 (ID) , R203, R473, R474	R23 (ID) , U12, R202, C317, R216, R204,			
3G	C369, C366, R278, R24, C18, R1, C419, C421, C1, C22, C4, C25, C431, C433, R388, Q11, R368, R340, C426, Q12, C15, J_SIM1, J_3G1				
W/O 3G		C369, C366, R278, R24, C18, R1, C419, C421, C1, C22, C4, C25, C431, C433, R388, Q11, R368, R340, C426, Q12, C15, J_SIM1, J_3G1			

Sheet 38 of 41
Option BOM List

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 **V1.0X.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 1.0X.05, you **MAY NOT** then go back and flash the BIOS to ver 1.0X.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 “**EFI Shell**”. You will then be prompted to give “**Y**” or “**N**” responses to the programs being loaded by EFI Shell. Choose “**N**” for any memory management programs.
2. You should now see **DISK fsX:\>** (X is the designated drive number for the CD/DVD drive/USB flash drive).
3. **Type the following command:**

fsX:\> Flash.nsh

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.