

SERVICE MANUAL

N740WU

notebook



Notebook Computer

N740WU

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 *N740WU* 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.

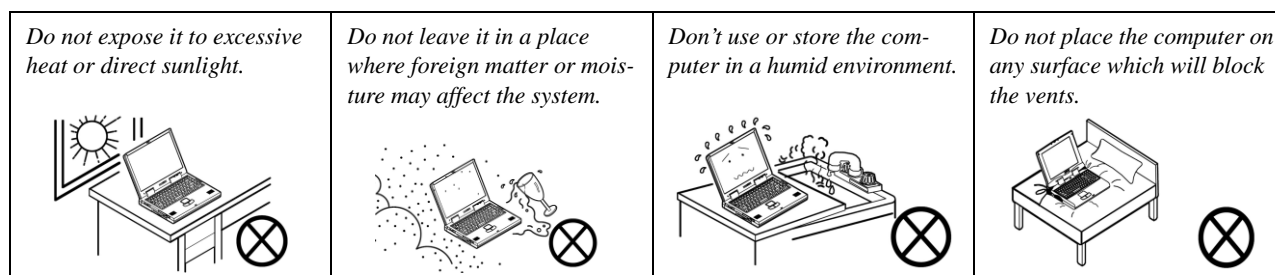
Instructions for Care and Operation

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

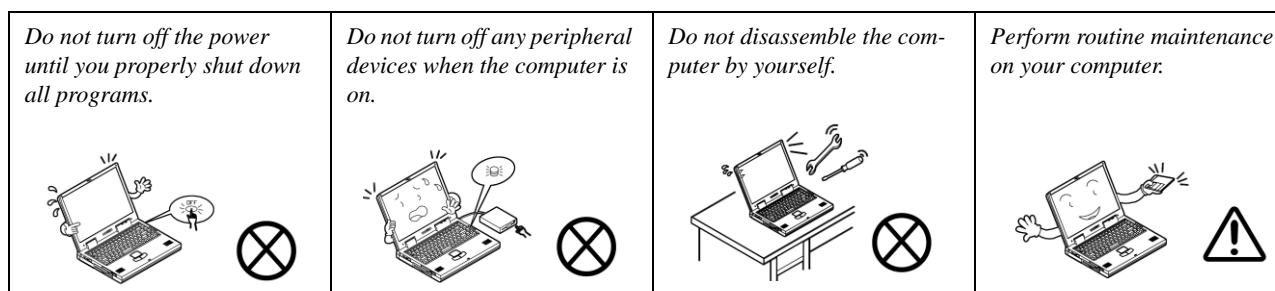
1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.



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.

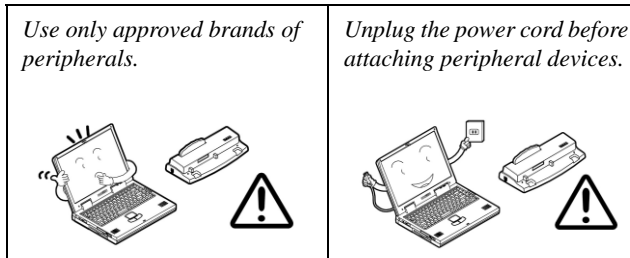


3. **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.



Preface

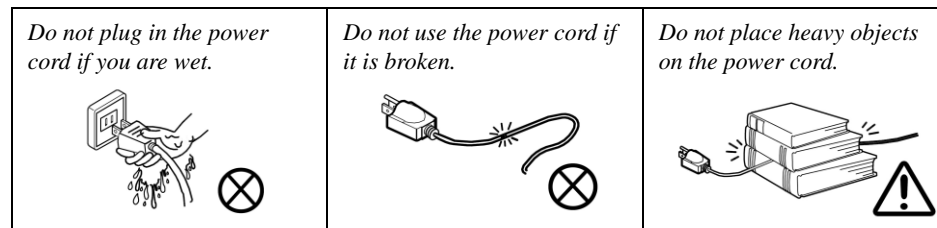
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



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. **When first setting up the computer use the following procedure** (as to safeguard the computer during shipping, the battery will be locked to not power the system until first connected to the AC/DC adapter and initially set up as below):
 - Attach the AC/DC adapter cord 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 and **leave it there for 6 seconds or longer**.
 - Remove the adapter cord from the computer's DC-In jack, and then plug it back in again; the battery will now be unlocked.
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".

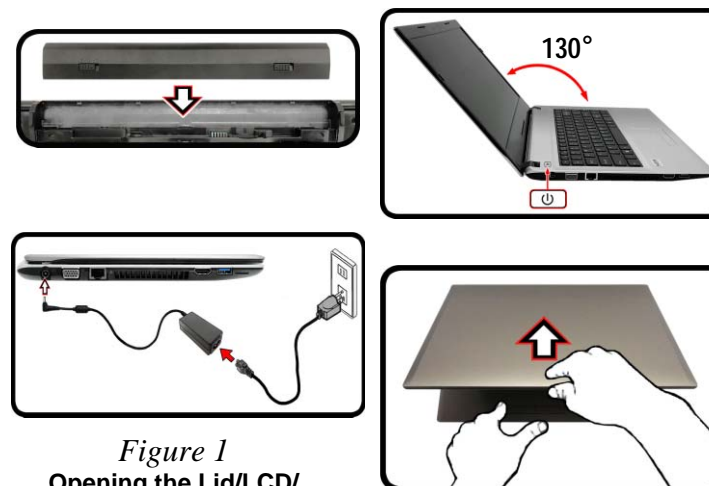


Figure 1
**Opening the Lid/LCD/
Computer with AC/DC
Adapter Plugged-In**

Powering the Computer On

After every disassembly, make sure that the bottom case's screws are all inserted and tightened before turning the computer on.

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 *N740WU* 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 *N740WU* 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

i-8550U (1.80GHz)

8MB Smart Cache, 14nm, DDR4-2400MHz, TDP 15W

Intel® Core™ i5 Processor

i5-8250U (1.60GHz)

6MB Smart Cache, 14nm, DDR4-2400MHz, TDP 15W

Intel® Core™ i3 Processor

i3-8130U (2.20GHz)

4MB Smart Cache, 14nm, DDR4-2400MHz, TDP 15W

i3-7020U (2.30GHz)

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

Intel® Pentium Processor

Pentium 4415U (2.30GHz)

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

BIOS

64Mb SPI Flash ROM

AMI BIOS

Memory

Dual Channel DDR4

Two 260 Pin SO-DIMM Sockets

Supporting **DDR4 2400MHz** or **DDR4 2133MHz** (Depending on CPU Type) Memory Modules

Memory Expandable up to 32GB

Compatible with 4GB, 8GB or 16GB Modules

LCD Options

14" (35.56cm), 16:9, HD (1366x768)/FHD (1920x1080)
(Thickness: 3.6mm)

Storage

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

(Factory Option) Dummy ODD

Or

(Factory Option) One 9.0/9.5mm(h) Optical Device Type Drive (DVD Writer)

(Factory Option) *One M.2 2280 **SATA/PCIe Gen3 x4** Solid State Drive (SSD)

Or

(Factory Option) *One M.2 2280 **PCIe Gen2 x4** Solid State Drive (SSD)

**Processor Dependent*

Video Adapter

Intel UHD Graphics 620 (i7-8550U, i5-8250U, i3-8130U only)

Dynamic Frequency

Intel Dynamic Video Memory Technology

Microsoft DirectX®12 Compatible

Intel HD Graphics 620 (i3-7020U only)

Dynamic Frequency

Intel Dynamic Video Memory Technology

Microsoft DirectX®12 Compatible

Intel HD Graphics 610 (Pentium 4415U only)

Dynamic Frequency

Intel Dynamic Video Memory Technology

Microsoft DirectX®12 Compatible

Pointing Device

Built-in Touchpad

Keyboard

A4 Size Isolated keyboard

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**
Or
Slot 2 for **SATA/PCIe Gen2 x4 SSD**
(Factory Option) Slot 3 for **LTE**

Interface

One USB 2.0 Port
Two USB 3.0 (USB 3.1 Gen 1) Type-A Ports
One HDMI-Out Port
One External Monitor Port
One Microphone-In Jack
One Headphone-Out Jack
One RJ-45 LAN Jack
One DC-in Jack

Communication

Built-In 10/100/1000Mb Base-TX Ethernet LAN
1.0M HD PC Camera Module
(Factory Option) **4G** M.2 3042 Module

WLAN/ Bluetooth M.2 Modules:

(Factory Option) Intel® Dual Band Wireless-AC 8265 Wireless LAN (**802.11ac**) + Bluetooth
(Factory Option) Intel® Dual Band Wireless-AC 3168 Wireless LAN (**802.11ac**) + Bluetooth
(Factory Option) Intel® Dual Band Wireless-AC 9260 Wireless LAN (**802.11ac**) + Bluetooth

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

340mm (w) * 245mm (d) * 24mm (h)
1.77kg (Barebone with ODD and 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 white.*
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
4. USB 3.0 (USB 3.1 Gen 1) Type-A Port
5. ODD Bay
6. Emergency Eject Hole
7. 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 (USB 3.1 Gen 1) Type-A 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



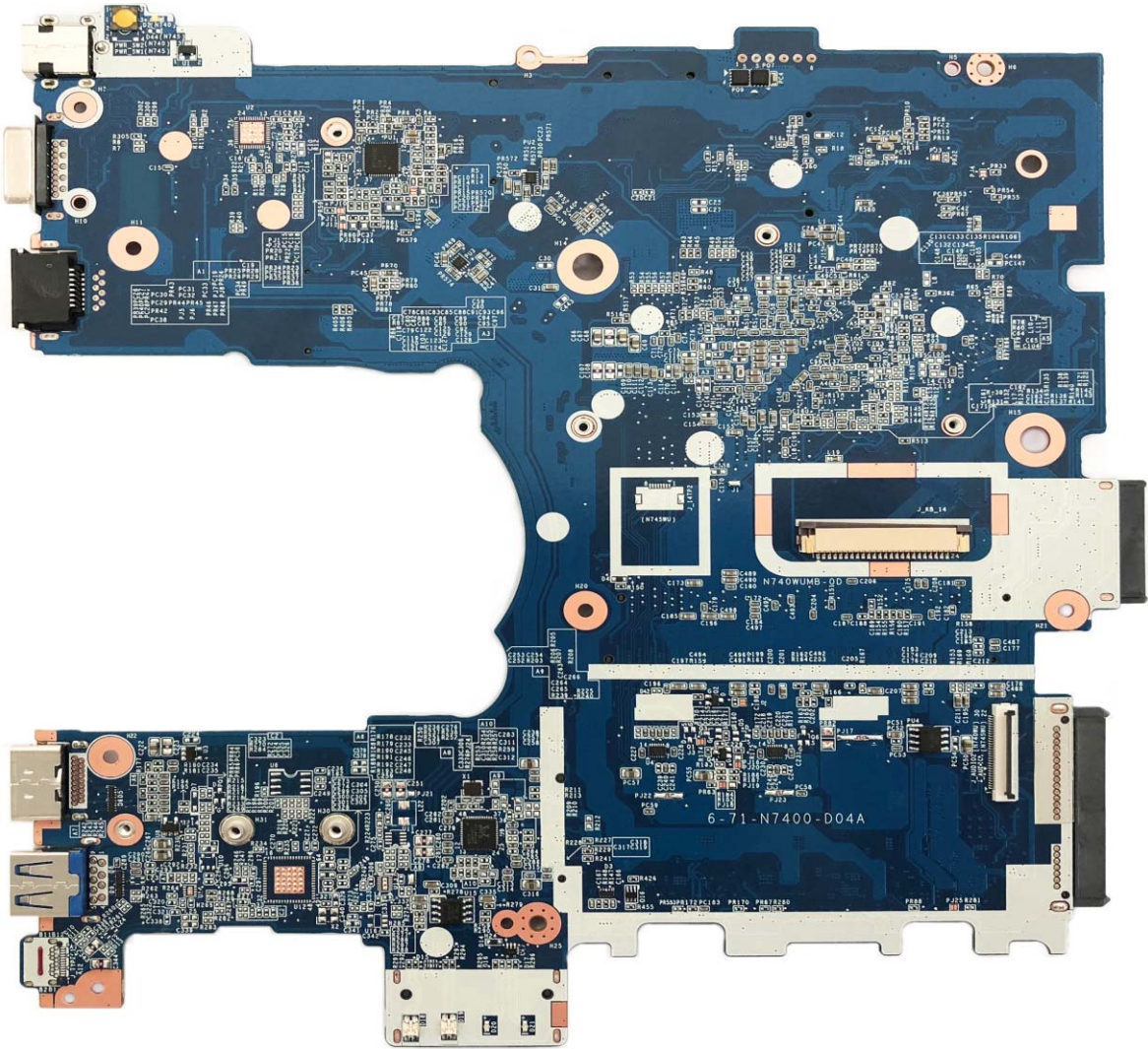
Overheating

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)

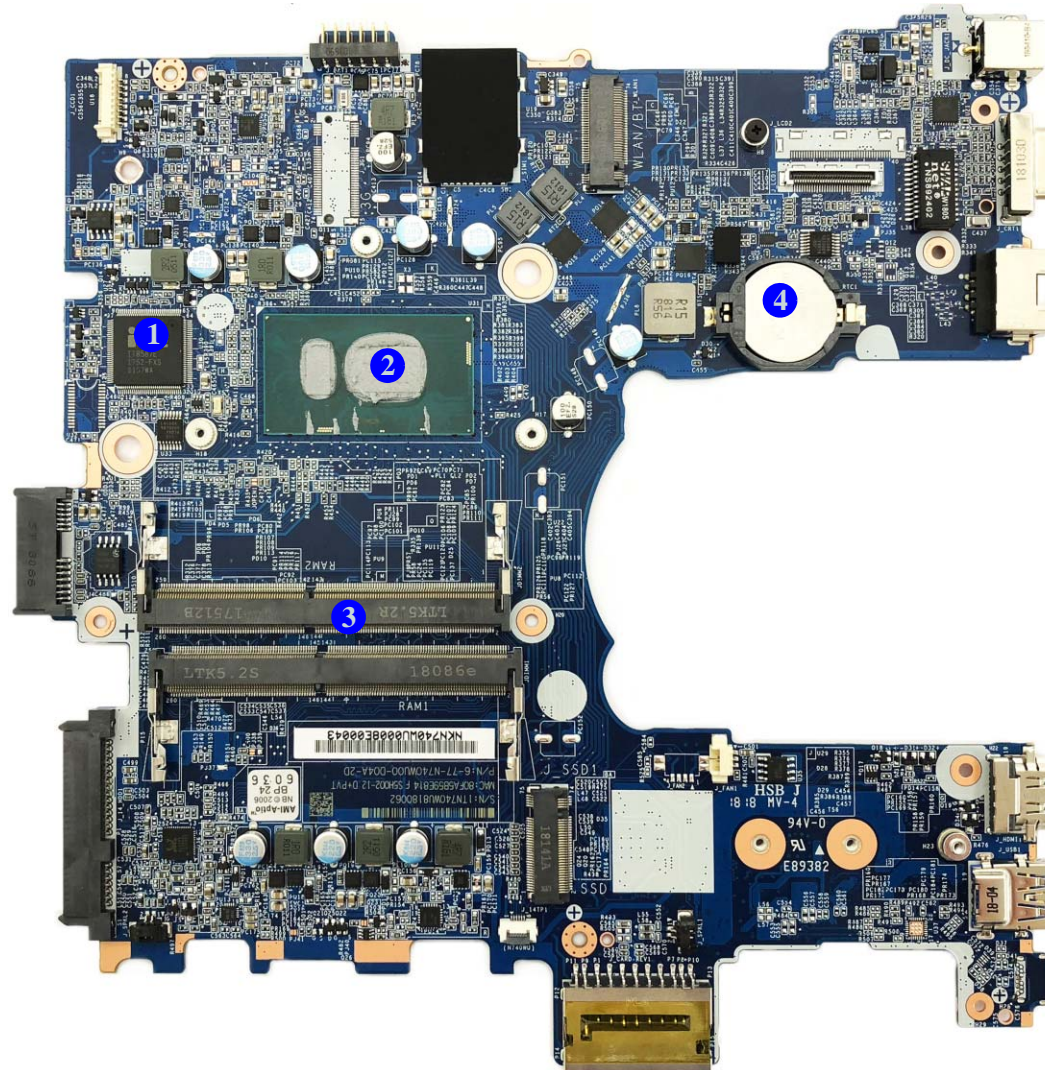


Figure 8
**Mainboard Bottom
Key Parts**

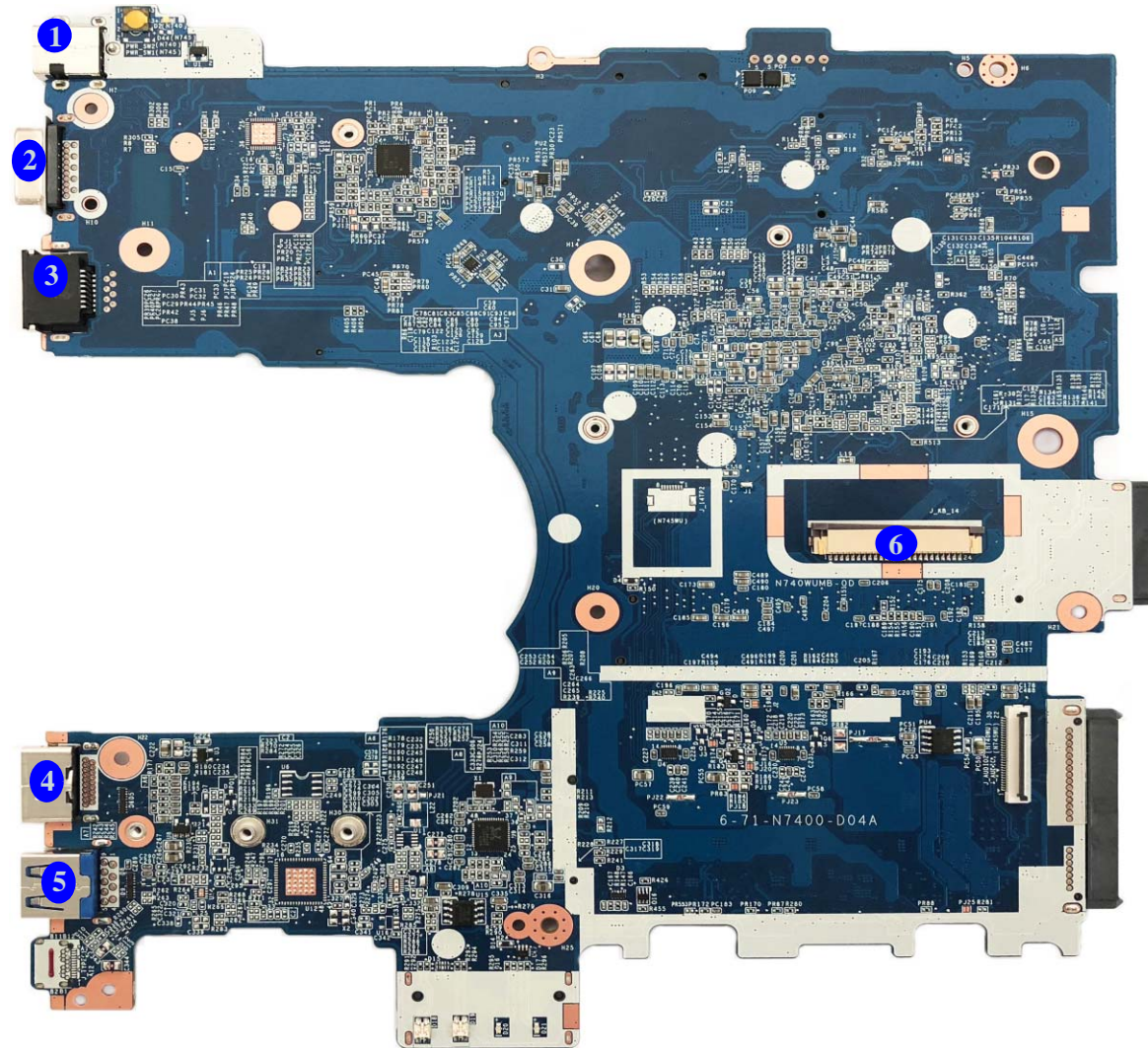
1. KBC-ITE IT8587
2. SOC
3. Memory Slots
DDR4 SO-DIMM
4. CMOS Battery

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 (USB 3.1 Gen 1) Port
6. Keyboard Cable Connector

Mainboard Overview - Top (Connectors)



Mainboard Overview - Bottom (Connectors)

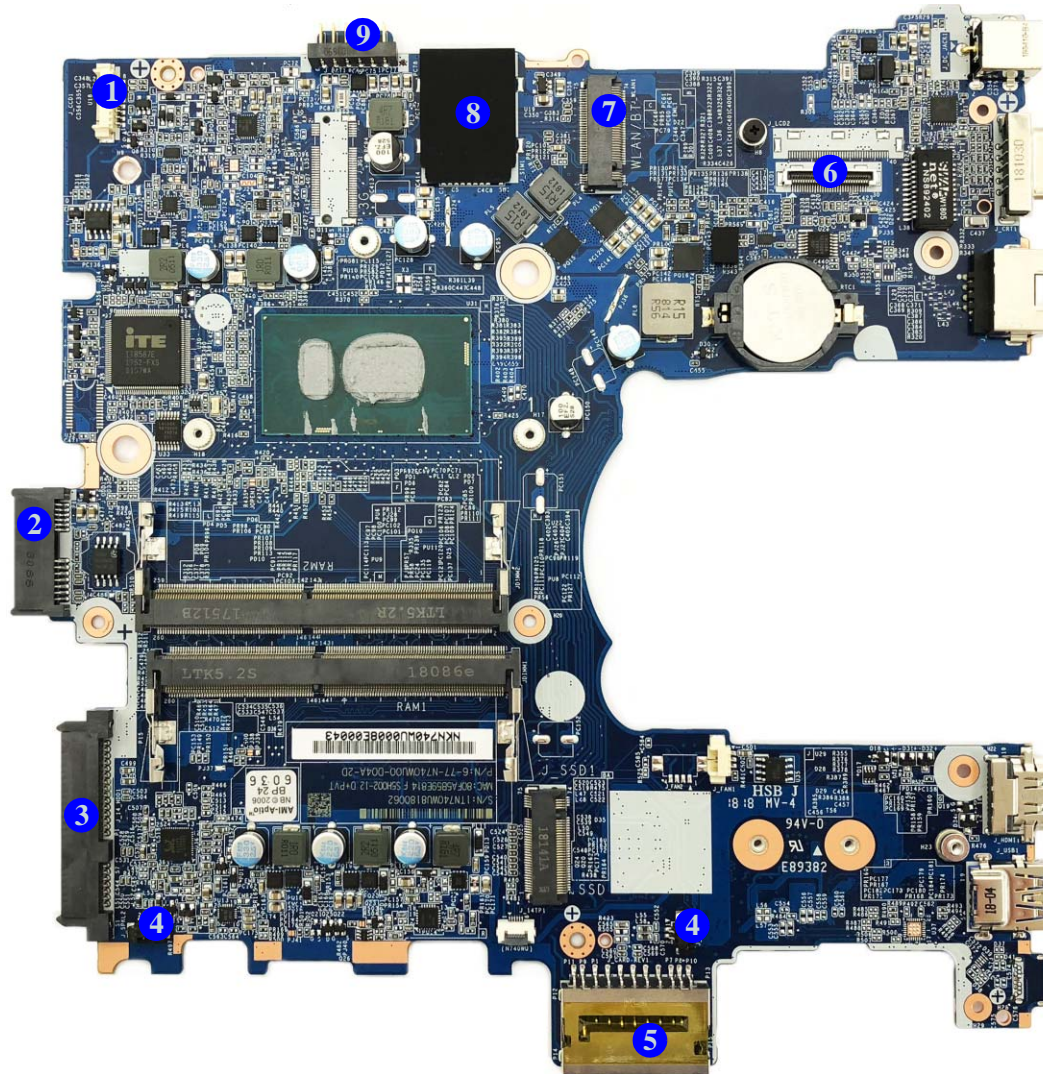


Figure 10
**Mainboard Bottom
Connectors**

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


Chapter 2: Disassembly

Overview

This chapter provides step-by-step instructions for disassembling the *N740WU* series notebook's parts and subsystems. When it comes to reassembly, reverse the procedures (unless otherwise indicated).

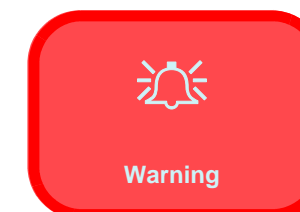
We suggest you completely review any procedure before you take the computer apart.

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.



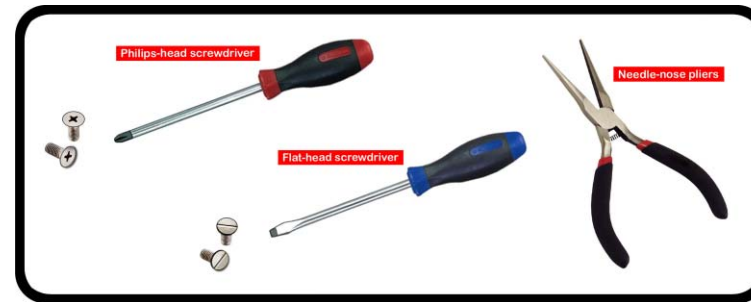
Disassembly

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.

(For Computer Models Supplied with Light Blue Cleaning Cloth) Some computer models in this series come supplied with a light blue cleaning cloth. To clean the computer case with this cloth follow the instructions below.

- Power off the computer and peripherals.
- Disconnect the AC/DC adapter from the computer.
- Use a little water to dampen the cloth slightly.
- Clean the computer case with the cloth.
- Dry the computer with a dry cloth, or allow it time to dry before turning on.
- Reconnect the AC/DC adapter and turn the computer on.



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 Caddy Bay:

1. Remove the battery *page 2 - 5*
2. Remove the keyboard *page 2 - 6*
3. Remove the caddy bay *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 - 10*

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. Press the battery down **8** and slide the latch **9** in the direction of the arrow to lock it in place (*Figure 1f*).

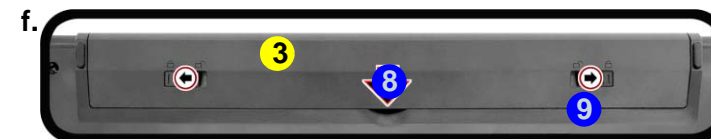
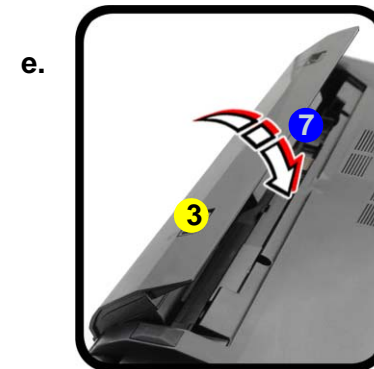
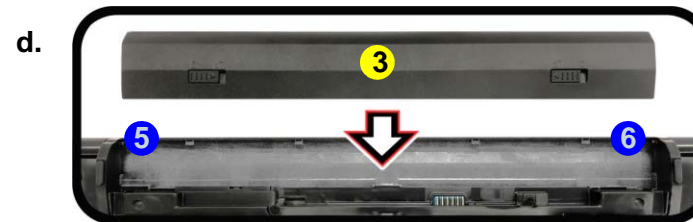
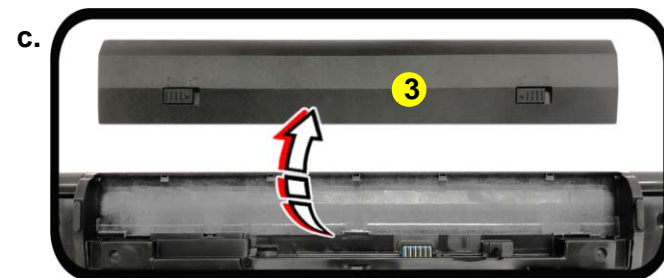
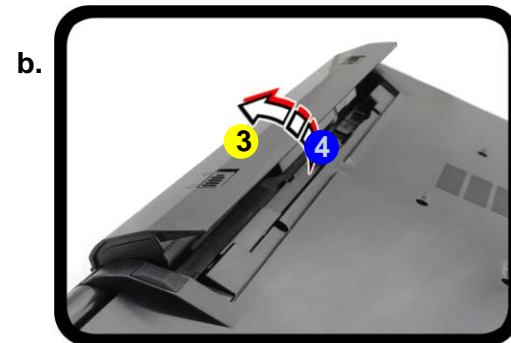
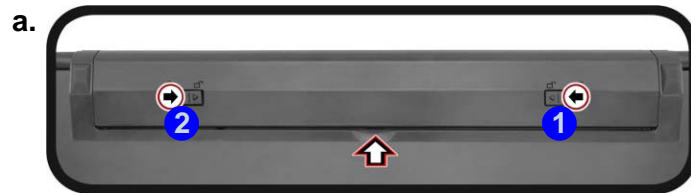
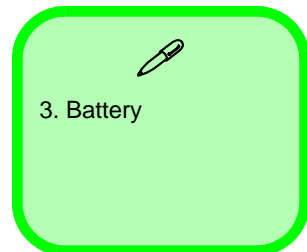


Figure 1
Battery Removal

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



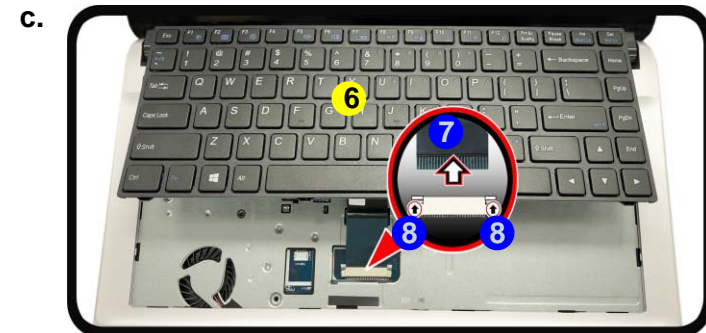
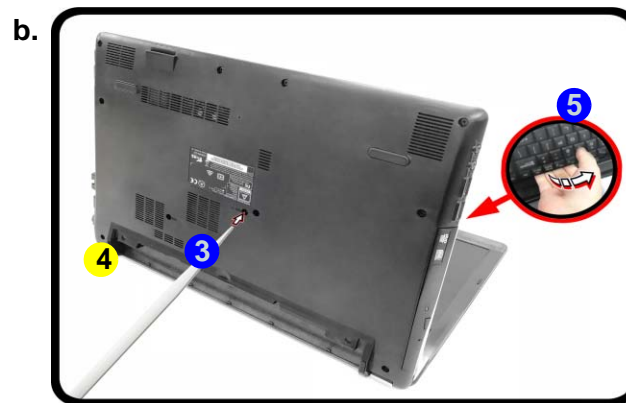
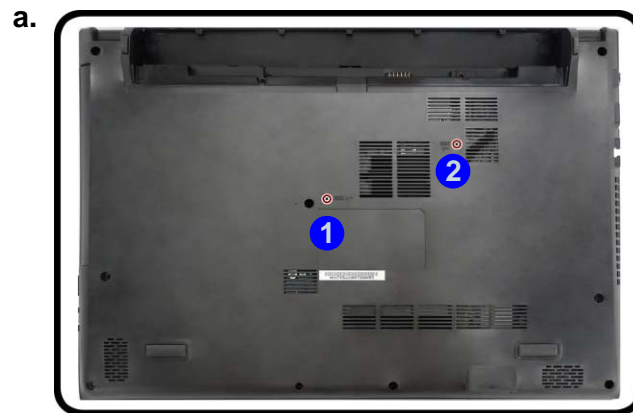
Disassembly

Figure 2
Keyboard Removal

- Remove the screws.
- Release the keyboard by using a special eject stick to press 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 (use the special eject stick **4** to do this) while releasing the keyboard in the direction of the arrow **5** as shown ([Figure 2c](#)).
- Carefully lift the keyboard **6** up, being careful not to bend the keyboard ribbon cable **7**. Disconnect the keyboard ribbon cable from the locking collar socket **8** ([Figure 2d](#)).
- Carefully lift up the keyboard **6** off the computer ([Figure 2e](#)).
- Reverse the process to install the keyboard (do not forget to replace all the screws).



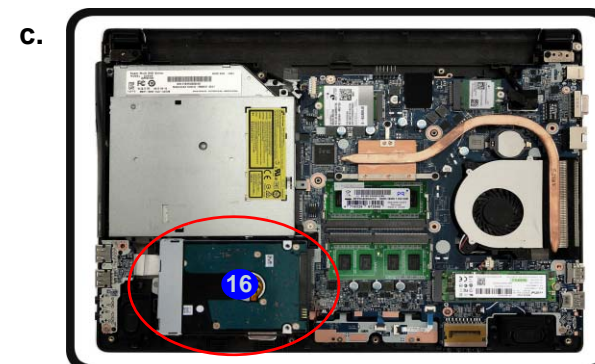
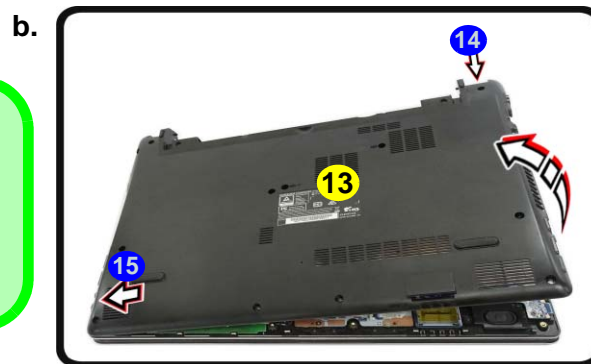
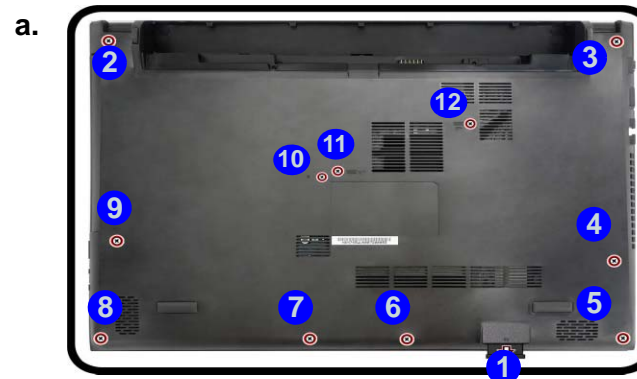
- 4. Eject Stick
- 6. Keyboard
- 2 Screws

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](#)).
2. Remove the SD card cover **1** and screws **2 - 12** ([Figure 3a](#)).
3. Lift the bottom cover **13** up from point **14** and slide it out in the direction of the arrow **15** ([Figure 3b](#)).
4. The hard disk drive will be visible at point **16** ([Figure 3c](#)).



13. Bottom Cover

- 11 Screws

Figure 3
HDD Assembly Removal

- a. Remove the screws.
- b. Remove the bottom cover.
- c. 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.)**

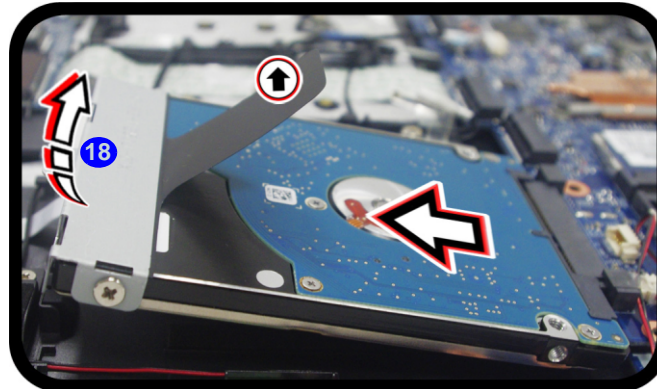
- d. Remove the screw.
- e. Slightly lift and pull the HDD assembly in the direction of the arrow.
- f. Lift the HDD assembly out of the bay.
- g. Remove the screws and HDD bracket.

- 5. Remove the screw 17 from the hard disk assembly (Figure 4d).
- 6. Slightly lift and pull the hard disk assembly in the direction of arrow 18 (Figure 4e).
- 7. Lift the hard disk assembly 19 out of the bay 20 (Figure 4f).
- 8. Remove the screws 21 - 22 and the HDD bracket 23 from the hard disk 24 (Figure 4g).
- 9. Reverse the process to install a new hard disk (do not forget to replace all the screws and bottom cover).

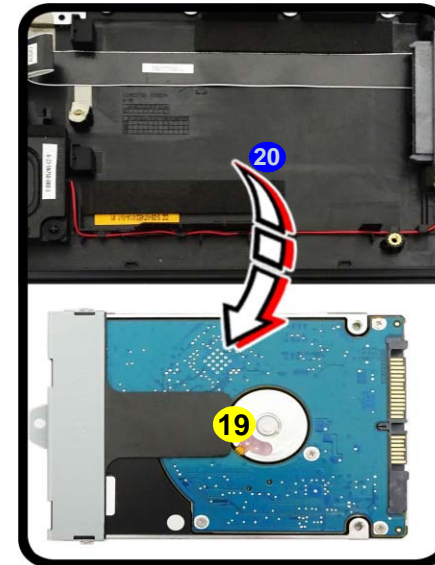
d.



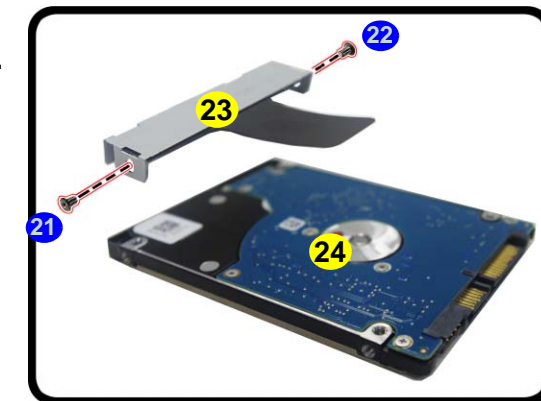
e.



f.



g.



19. HDD Assembly
23. HDD Bracket
24. HDD

- 3 Screws

Removing the Caddy Bay

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)), and bottom case ([page 2 - 7](#)).
2. Remove the screw **1** ([Figure 5a](#)).
3. Carefully push out the caddy bay **2** out in the direction of the arrow **3** ([Figure 5a](#)).
4. Reverse the process to install a new hard disk.
5. Restart the computer to allow it to automatically detect the new device.

a.

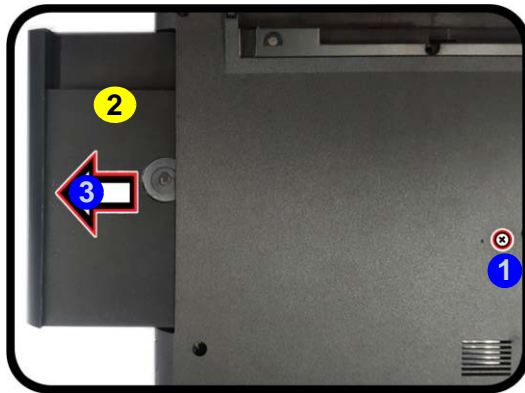


Figure 5
Caddy Bay Removal

- a. Remove the screw and push the caddy bay out off the computer.



2. Dummy Bay

- 1 Screw

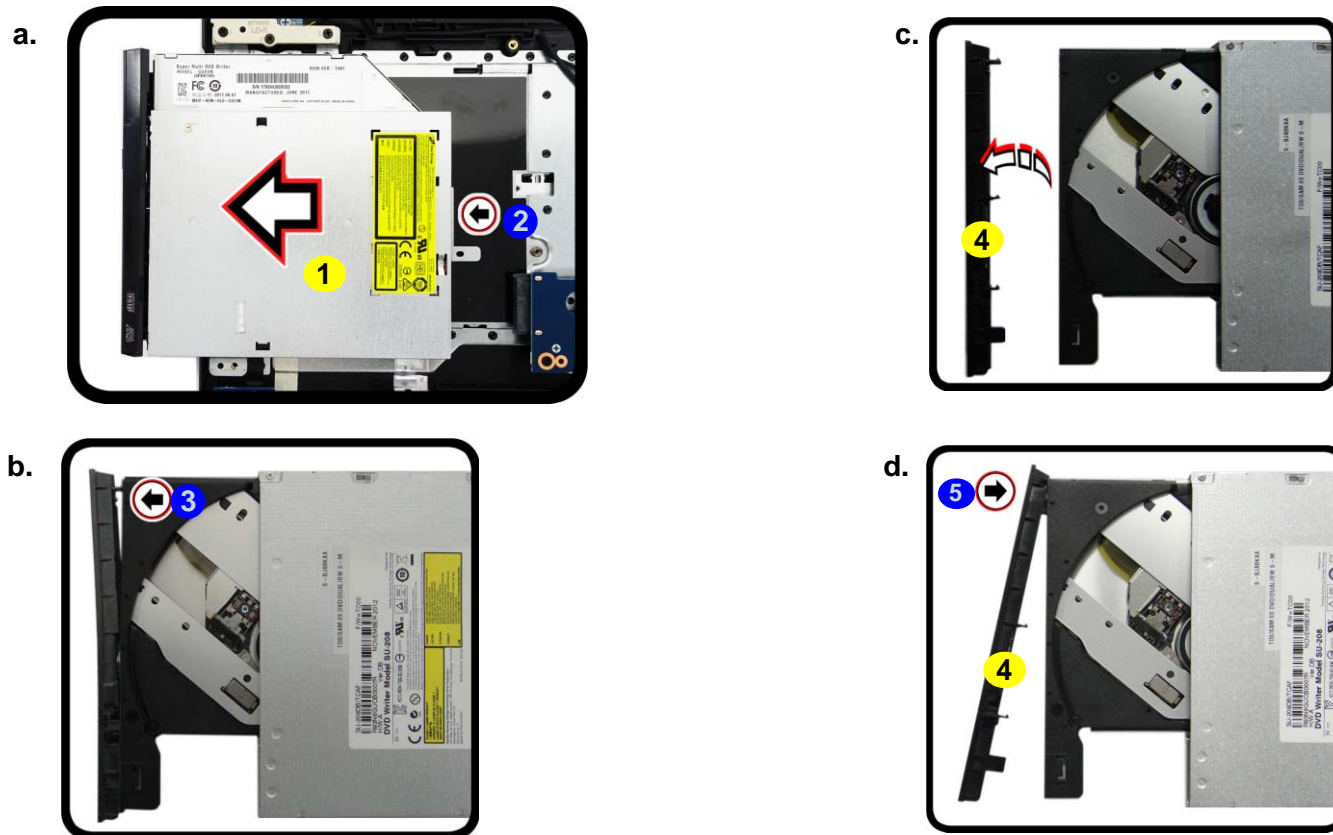
Disassembly

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 2400 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.

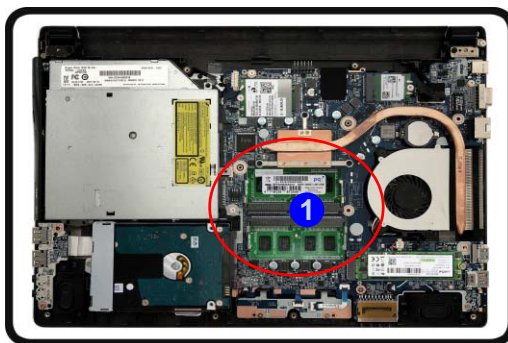
Memory Upgrade Process

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.

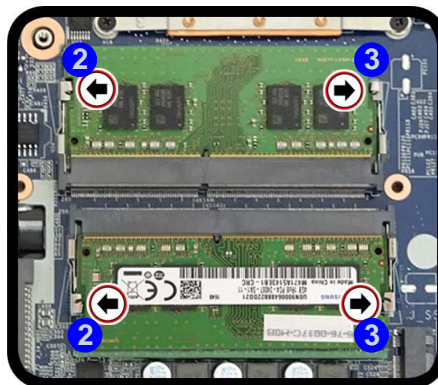
Figure 7
RAM Module Removal

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

a.



b.



c.



Single Memory Module Installation

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



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.

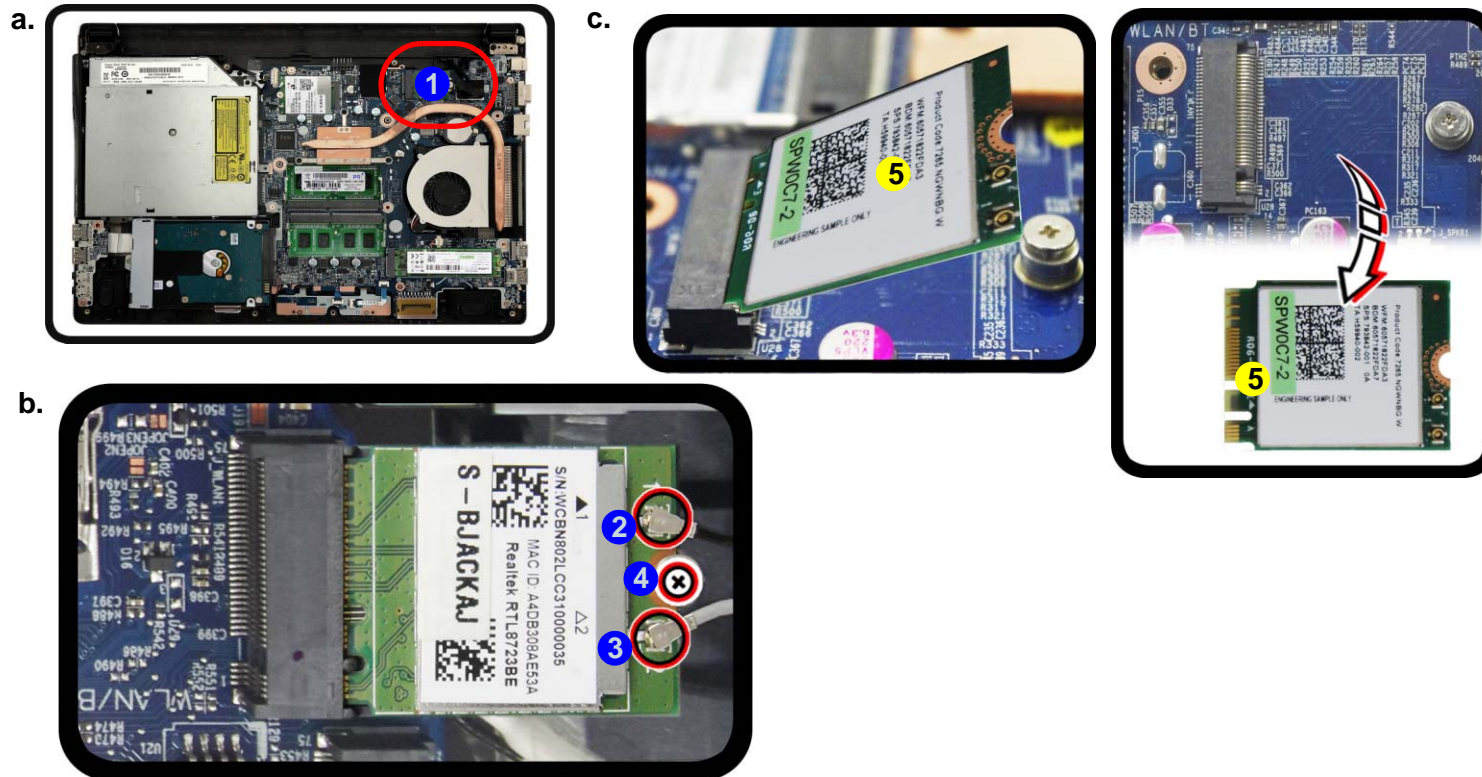


Figure 8
WLAN Module Removal

- 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, Combo, 3G & LTE Module Cables

Note that the cables for connecting to the antennae on WLAN, WLAN & Bluetooth Combo, 3G and LTE 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 | Black | White |
| LTE Broadband | LTE 1 | Black | Black |
| | LTE 2 | Black | Blue |

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](#)).

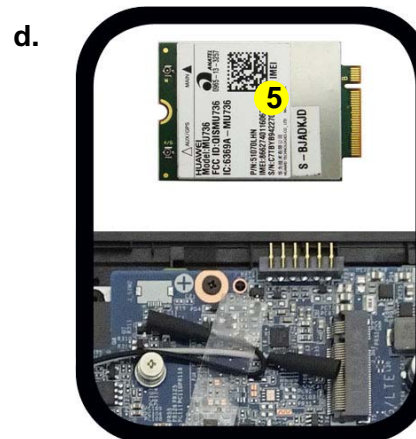
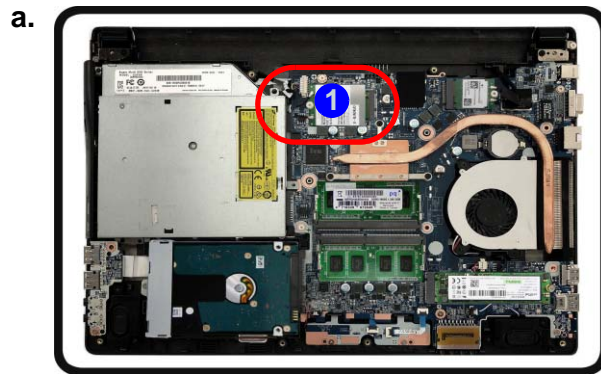


Figure 9
3G Module Removal

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



3.M2 SATA-1 Module

- 1 Screw

Disassembly

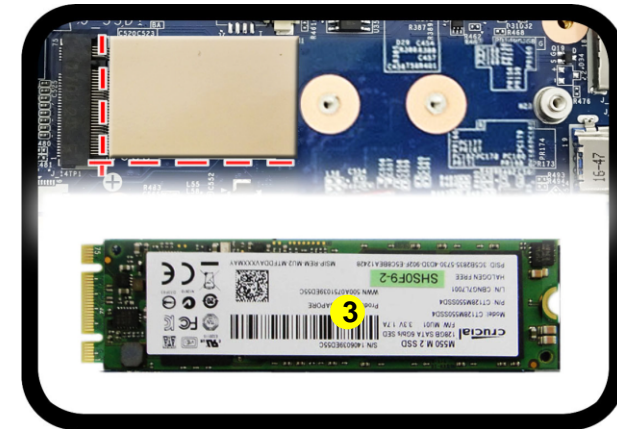
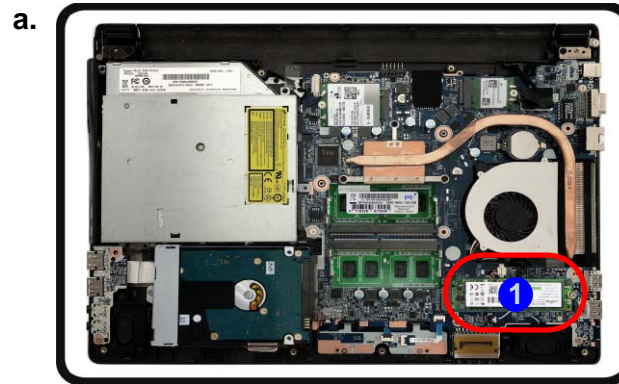
Figure 10
M.2 SSD Module
Removal

- 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.



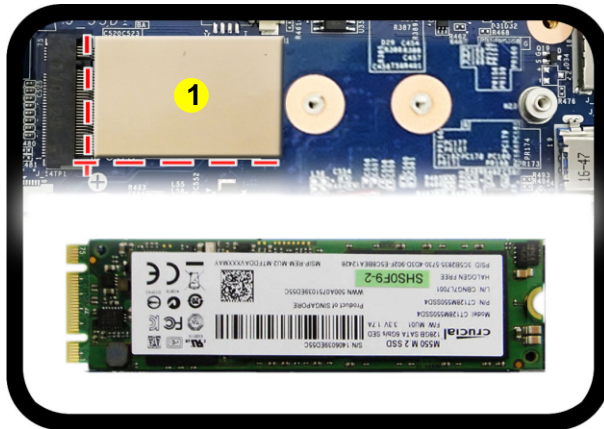
3.M2 SATA-1 Module

- 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.



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

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

Figure 11
M.2 SSD Module Installation

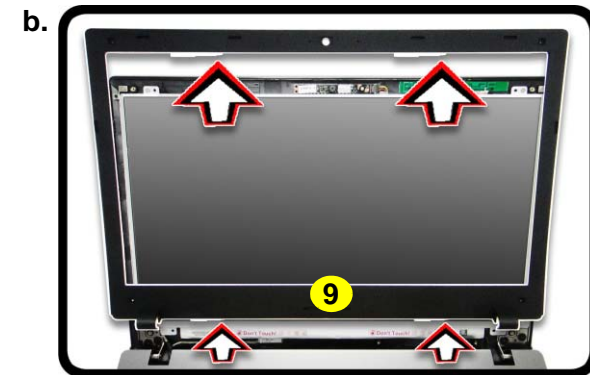
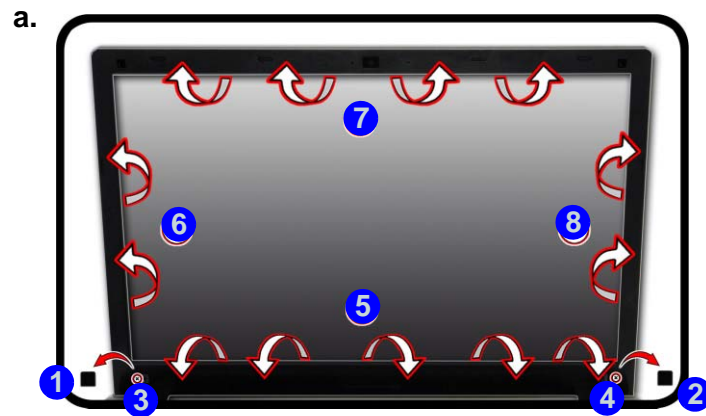
Disassembly

Figure 12
CCD Removal

- Remove cover and screws. Then run your fingers around the inner frame of the LCD panel at the points indicated by the arrows.
- Push the LCD front panel upwards before carefully lifting it up.
- Remove the LCD front cover.

Removing the CCD

- Turn **off** the computer, turn it over to remove the battery ([page 2 - 5](#)).
- Lay the computer down on a flat surface with the top case up forming a 90 degree angle. Carefully remove the mylar covers **1** - **2** and screws **3** - **4**.
- Run your fingers around the inner frame of the LCD panel at the points as indicated by the arrows **5** - **8** ([Figure 12a](#)).
- Push the LCD front cover **9** upwards before carefully lifting it up ([Figure 12b](#)).
- Remove the LCD front cover **9** ([Figure 12c](#)).



5. LCD Front Cover

6. Disconnect the cable ⑩ (*Figure 13d*).
7. Remove the CCD module ⑪ (*Figure 13e*).
8. Reverse the process to install a new CCD module.

d.



e.

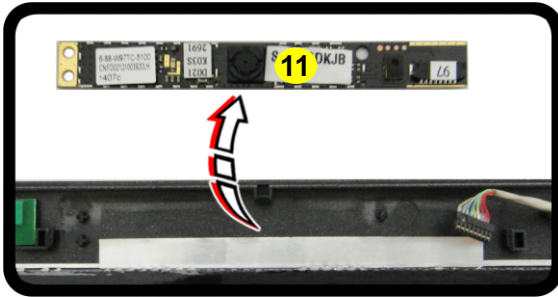


Figure 13
CCD Removal
(cont'd)

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



11. CCD Module

Appendix A:Part Lists

This appendix breaks down the *N740WU* 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.

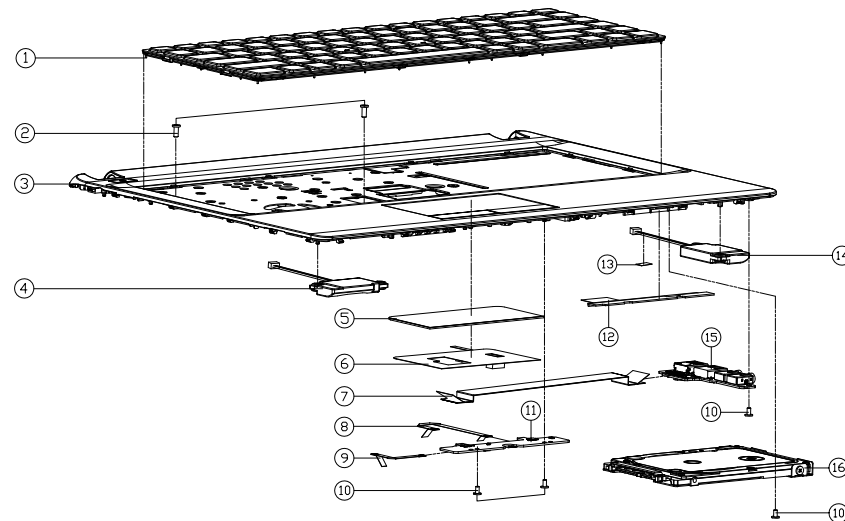
Note: Be sure to check any update notices. The parts shown in these illustrations are appropriate for the system at the time of publication. Over the product life, some parts may be improved or re-configured, resulting in *new* part numbers.

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> |
| ODD | <i>page A - 7</i> |
| Dummy ODD | <i>page A - 8</i> |
| MB | <i>page A - 9</i> |

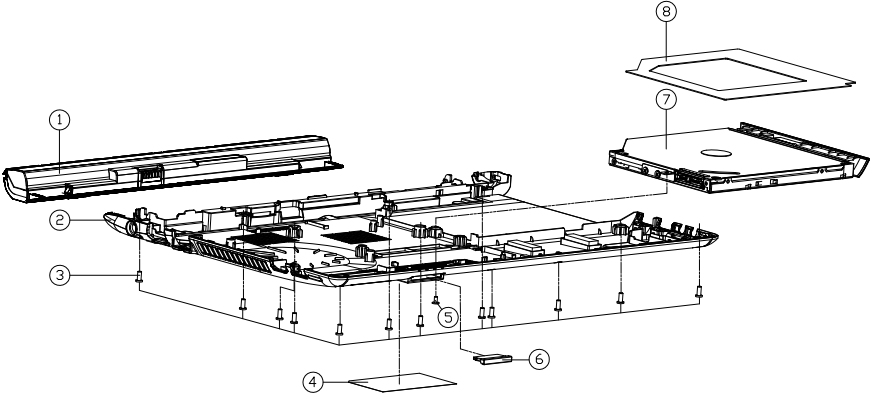


| ITEM | PART NAME | PART NO | REMARK |
|------|---|-------------------|--------|
| 1 | WIND I/O (SARABACKA FRAMES) MODULE FOR N7450U (MMO/IS-ED) | 6-79-N745WUOK-010 | |
| 2 | .SCREW M2.5x6L K BZ ICT NY | 6-35-82125-6RA | |
| 3 | TDP CASE MODULE N7400U | 6-39-N7402-011 | |
| 4 | SPEAKER L 2044 ISW AT 175MM BOXES(40V) DDD N750BU | 6-23-SN520-1L2 | |
| 5 | TEUCH PAD SYNAPTICS BAK4E TM-03175-002 M248DU | 6-49-N24J3-010 | |
| 6 | INCLT P/M PLAR-RUBBER (CSC44)MMO PET-COLLOID RUBBER N74WU | 6-40-N7402-040 | |
| 7 | FFC CABLE AUDIO TO MD L-1473SM SV 3P PITCH=15MM COUS N74WU | 6-43-N7400-021 | |
| 8 | FFC CABLE TP TO CLUX L-150M SV 6P PITCH=15MM COUS N74WU | 6-43-N7400-011-1 | |
| 9 | FFC CABLE CLICK TO MD L-150M SV 6P PITCH=15MM COUS N74WU | 6-43-N7400-031-1 | |
| 10 | SCREW M2x4L KI NI ICT NY (D=D=4.5,D1=0.4) | 6-35-B1120-4RE | |
| 11 | CLICK BOARD V4.0 N7400U | 6-77-N7402-004 | |
| 12 | AUDIO PCB CHG W/L E/P FOR UNIFORMITY OF SOUND (CSC44) L-150M 1525SM | 6-23-W7355-1D20 | |
| 13 | TAPE MYLAR TRANSPARENT (20X10X0.05) P180UM | 6-40-P1803-020 | |
| 14 | SPEAKER R 2044 ISW AT 175MM BOXES(40V) DDD N750BU | 6-23-SN750-0R0 | |
| 15 | AUDIO BOARD V3.0 N7400U | 6-77-N7408-D03 | |
| 16 | W/O HDD ASS'Y N7400U | 6-79-N740WU0J-010 | |
| 16 | W/HDD ASS'Y N7400U | 6-79-N740WU0J-020 | |

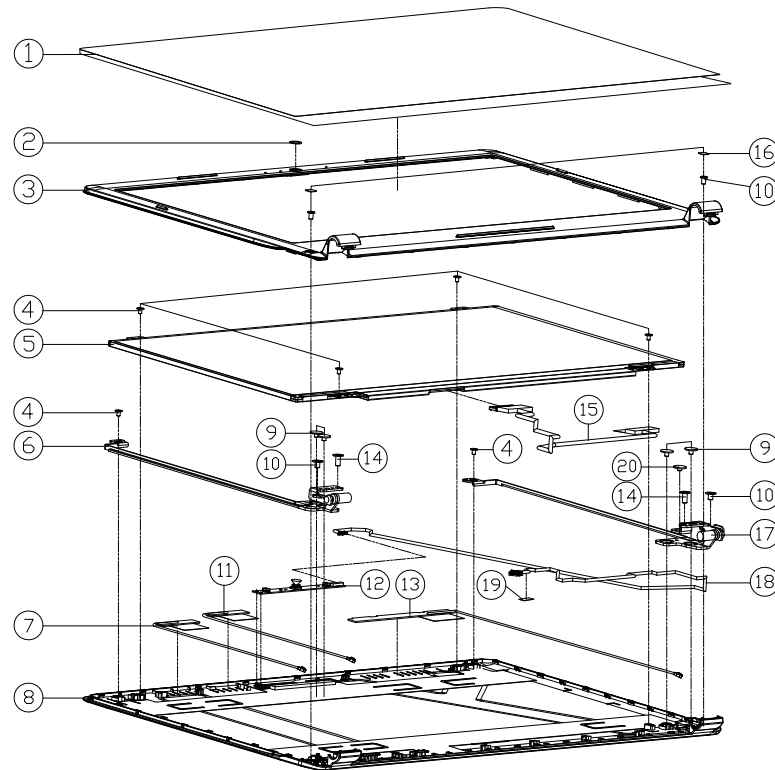
Figure A - 1
Top

Bottom

Figure A - 2
Bottom



| ITEM | PART NAME | PART NO | REMARK |
|------|--|-------------------|--------|
| 1 | IMP S LI 14.6V/2200mAh KSP 3MP/30L ODD/CSO 900/1029F (TEXTURE) N750U | 6-87-N750S-31C00 | |
| 1 | IMP S LI 14.6V/2200mAh KSP 3MP/30L ODD/CSO 900/1029F (TEXTURE) N750U | 6-87-N750S-4EB3 | |
| 1 | IMP S LI 14.6V/2200mAh KSP 3MP/30L ODD/CSO 900/1029F (TEXTURE) N750U | 6-87-N750S-3CF2 | |
| 2 | BOTTOM CASE MODULE FOR N740WU | 6-39-N7403-011 | |
| 3 | SCREW M2.5*6L K BZ ICT NY | 6-35-82125-6RA | |
| 4 | PRODUCT LABEL FOR N740WU | 6-45-N740WU03-010 | |
| 5 | SCREW M2*4L KI NI ICT NY (DD=04.5,DT=0.4) | 6-35-B1120-4RE | |
| 6 | DUMMY SD RUBBER SILICON N/P FOR N745WU-N | 6-47-N7453-030-N | |
| 7 | DUMMY ODD ASS'Y N740WU | 6-79-N740WU0Z-001 | OPTION |
| 7 | SATA DVD SUPER MULTI 8X ASS'Y | 6-79-N740WU0Q-001 | OPTION |
| 7 | W/O ODD ASS'Y N740WU | 6-79-N740WU0Z-000 | OPTION |
| 8 | ODD PC MYLAR 0.5T N750HU | 6-40-N75H2-031 | |

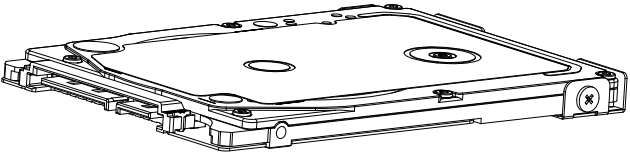
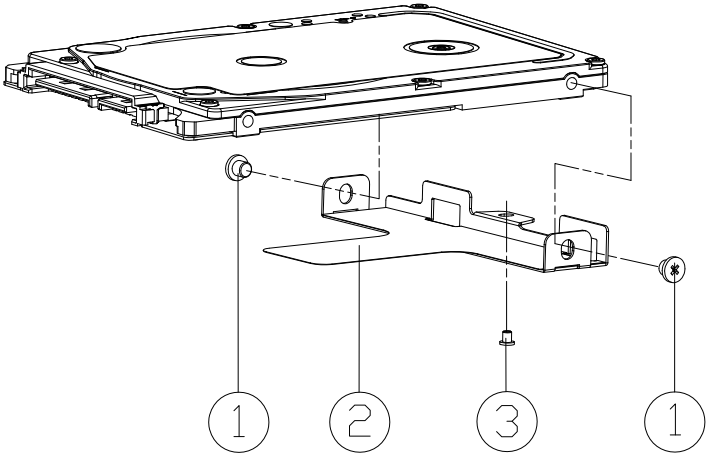


| ITEM | PART | NAME | PART NO | REMARK |
|------|---|------|-------------------|--------|
| 1 | LCD PROTECT MYLAR BOPP N7450U-N | | 6-40-N7451-010-N | |
| 2 | CCD LENS PC N740WU | | 6-42-N7401-010 | |
| 3 | FRONT COVER MODULE N740WU | | 6-39-N7401-011 | |
| 4 | SCREW M2*3L KI BZ ICT NY (OD=#4.5,DT=0.4) | | 6-35-B6120-3RD | |
| 5 | LCD 14" HD/NOVNI G/EEP INNOXILX N4084A-EA3 GREYCD LEO 30MM | | 6-50-J8B30-V001 | |
| 5 | LCD 14" HD/NOVNI G/EEP BDE N74047W-M41 FG CGE494 LEO 30MM | | 6-50-JBB30-Z012 | |
| 5 | LCD 14"HD/ G/ EEP BDE N74047W-M41 FG CGE494 LEO 30MM | | 6-50-J8A30-Z000 | |
| 5 | LCD 14" HD/NOVNI G/EEP BDE N74047W-M41 FG6B32 LEO 30MM | | 6-50-J8B30-Z000 | |
| 5 | LCD 14"HD/ G/ EEP BDE N74047W-M41 FG CGE494 LEO 30MM/TP AC/DCP/DC IN 1 YEAR | | 6-50-J8A30-Z000-A | |
| 6 | HINGE L (SK7) SZS N740WU | | 6-33-N7401-0L1 | |
| 7 | ANTENNA IPX4 W/AN W/L W/2 PCB AL 24G/50HZ W/L=30MM N630U | | 6-23-7N650-010 | |
| 8 | BACK COVER MODULE N740WU | | 6-39-N7401-021 | |
| 9 | SCREW M2.5*2.5L KI BK/Z ICT NY(087=0.6) | | 6-35-B6125-2R5 | |
| 10 | SCREW M2.5*4L KI NI ICT NY | | 6-35-21125-4R0 | |
| 11 | ANTENNA IPX4 W/AN W/L W/2 PCB AL 24G/50HZ W/L=30MM N630U | | 6-23-7N750-020 | |
| 12 | UNC CENRA CENRA FG OFFICE/CONCRETE IN HD DRYSH AC/DCP/DC FANNO WHITE LEO W/NO | | 6-88-W51PC-5100 | OPTION |
| 12 | UNC CENRA CENRA FG OFFICE/CONCRETE IN HD DRYSH AC/DCP/DC FANNO WHITE LEO W/NO | | 6-88-W51PC-5110 | OPTION |
| 12 | UNC CENRA CENRA FANNO DRYSH/HD IN HD DRYSH AC/DCP/DC FANNO WHITE LEO W/NO | | 6-88-N770C-4900 | OPTION |
| 12 | UNC CENRA CENRA FANNO DRYSH/HD IN HD DRYSH AC/DCP/DC FANNO WHITE LEO W/NO | | 6-88-N770C-4910 | OPTION |
| 13 | ANTENNA IPX4 LEO W/L LEO PCB IN 24G/50/55/55/26/26/26 LEO=30MM N630U | | 6-23-7N85K-010 | |
| 14 | SCREW M2.5*6L K BZ ICT NY | | 6-35-82125-6RA | |
| 15 | WIRE CABLE FOR CIP 200M (L) 19V 30P/IN COM/TE/LE COM/DC-AC/225V N750U | | 6-43-N7501-012-2C | |
| 16 | FRONT COVER SCREW MYLAR/PC-43M46X5X5=0.357) N150SD | | 6-40-N1501-010 | |
| 17 | HINGE R (SK7) SZS N740WU | | 6-33-N7401-0R1 | |
| 18 | WIRE CABLE CCM-REC TO HD 43CM SW OPEN AND TAPE (AND GASED) COMD N740U | | 6-43-P15ST-A12-3 | |
| 19 | TAPE MYLAR TRANSPARENT (20*10*0.05) P180HM | | 6-40-P1803-020 | |
| 20 | SCREW M2*2L KI BK/Z ICT NY(087=0.6) | | 6-35-B6120-2RE | |

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*4L KI NI ICT NY (DD=Ø4.5,DT=0.4) | 6-35-B1120-4RE | |

ODD

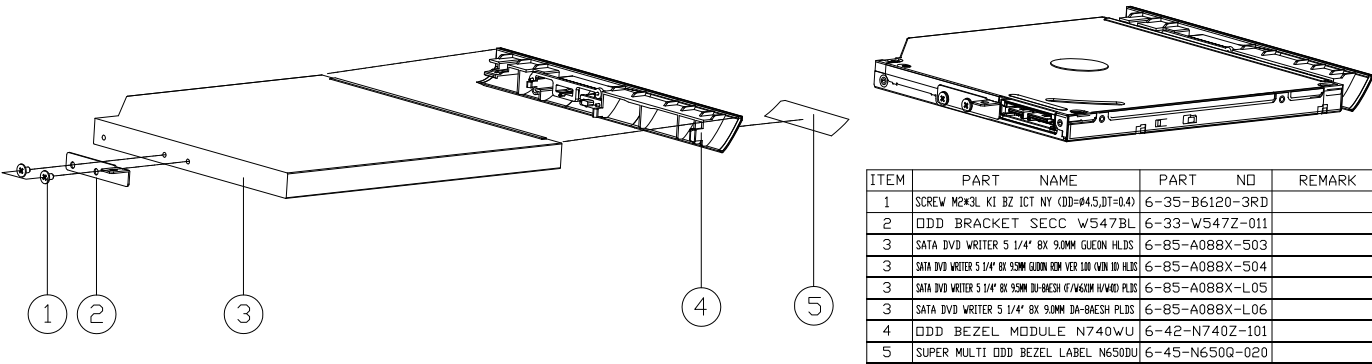
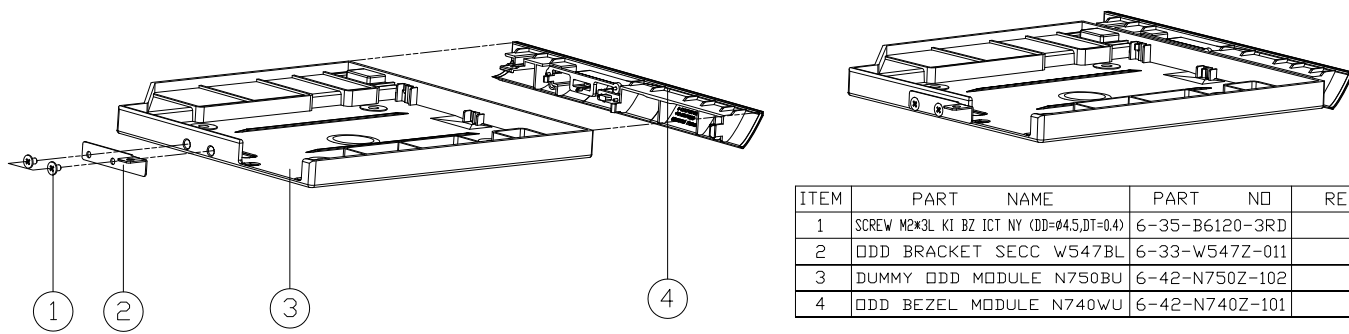


Figure A - 5
ODD

Dummy ODD

Figure A - 6
Dummy ODD



| 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 | DUMMY ODD MODULE N750BU | 6-42-N750Z-102 | |
| 4 | ODD BEZEL MODULE N740WU | 6-42-N740Z-101 | |

Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the *N740WU* 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>VGA RTD2168 - Page B - 18</i> | <i>VCORE, VCCGT, VCCSA - Page B - 34</i> |
| <i>Processor 1/11 - Page B - 3</i> | <i>HDMI - Page B - 19</i> | <i>VCCIN, VCCGT, VCIO, 2.5V - Page B - 35</i> |
| <i>Processor 2/11 - Page B - 4</i> | <i>HDD, ODD, LED, TPM - Page B - 20</i> | <i>VCCIO, 2.5V - Page B - 36</i> |
| <i>Processor 3/11 - Page B - 5</i> | <i>ASM2142 1/2 - Page B - 21</i> | <i>Charger, DC-In - Page B - 37</i> |
| <i>Processor 4/11 - Page B - 6</i> | <i>ASM2142 2/2 - Page B - 22</i> | <i>Audio Board - Page B - 38</i> |
| <i>Processor 5/11 - Page B - 7</i> | <i>USB, Audio Conn. - Page B - 23</i> | <i>Click Board - Page B - 39</i> |
| <i>Processor 6/11 - Page B - 8</i> | <i>Card Reader & LAN RTL8411B - Page B - 24</i> | <i>Power Seq - Page B - 40</i> |
| <i>Processor 7/11 - Page B - 9</i> | <i>M.2 PCIE SSD - Page B - 25</i> | <i>Option BOM - Page B - 41</i> |
| <i>Processor 8/11 - Page B - 10</i> | <i>M.2 (WLAN, 3G, SSD) - Page B - 26</i> | |
| <i>Processor 9/11 - Page B - 11</i> | <i>Audio Codec - Page B - 27</i> | |
| <i>Processor 10/11 - Page B - 12</i> | <i>CCD, MIC, LID, I/O Connector - Page B - 28</i> | |
| <i>Processor 11/11 - Page B - 13</i> | <i>KBC ITE IT8587 - Page B - 29</i> | |
| <i>DDR4 SO_DIMM_0 - Page B - 14</i> | <i>VDD3, VDD5 - Page B - 30</i> | |
| <i>DDR4 SO_DIMM_1 - Page B - 15</i> | <i>5V, 5VS, 3V, 3VS, 1.8VS - Page B - 31</i> | |
| <i>Panel, Inverter - Page B - 16</i> | <i>VDDQ, VDDQ_VTT, 1.5VS, 1.8VA - Page B - 32</i> | |
| <i>RTD2136N - Page B - 17</i> | <i>1.0V Series - Page B - 33</i> | |

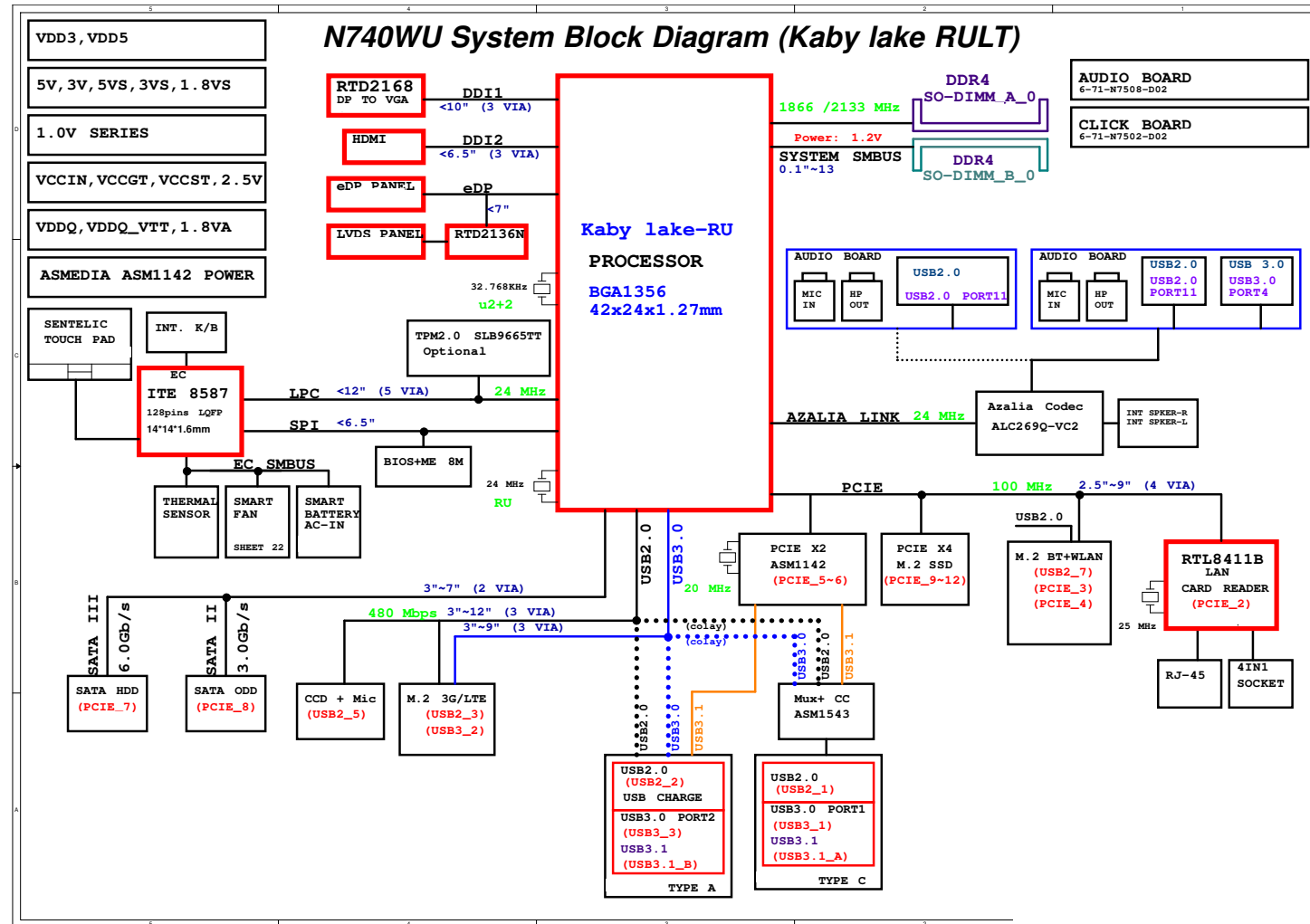
Table B - 1
**SCHEMATIC
DIAGRAMS**



Version Note

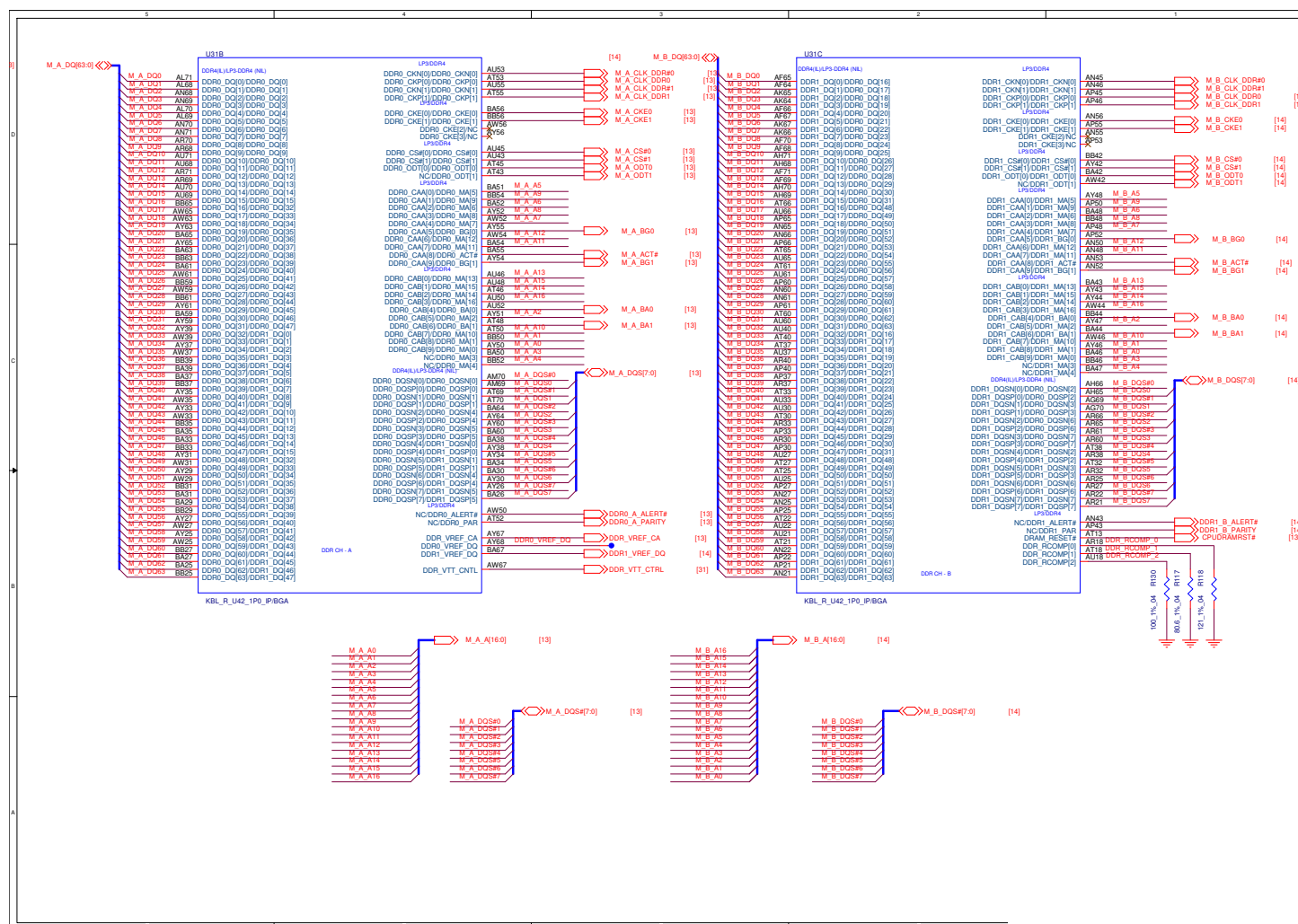
The schematic diagrams in this chapter are based upon version 6-7P-N7404-002. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

System Block Diagram



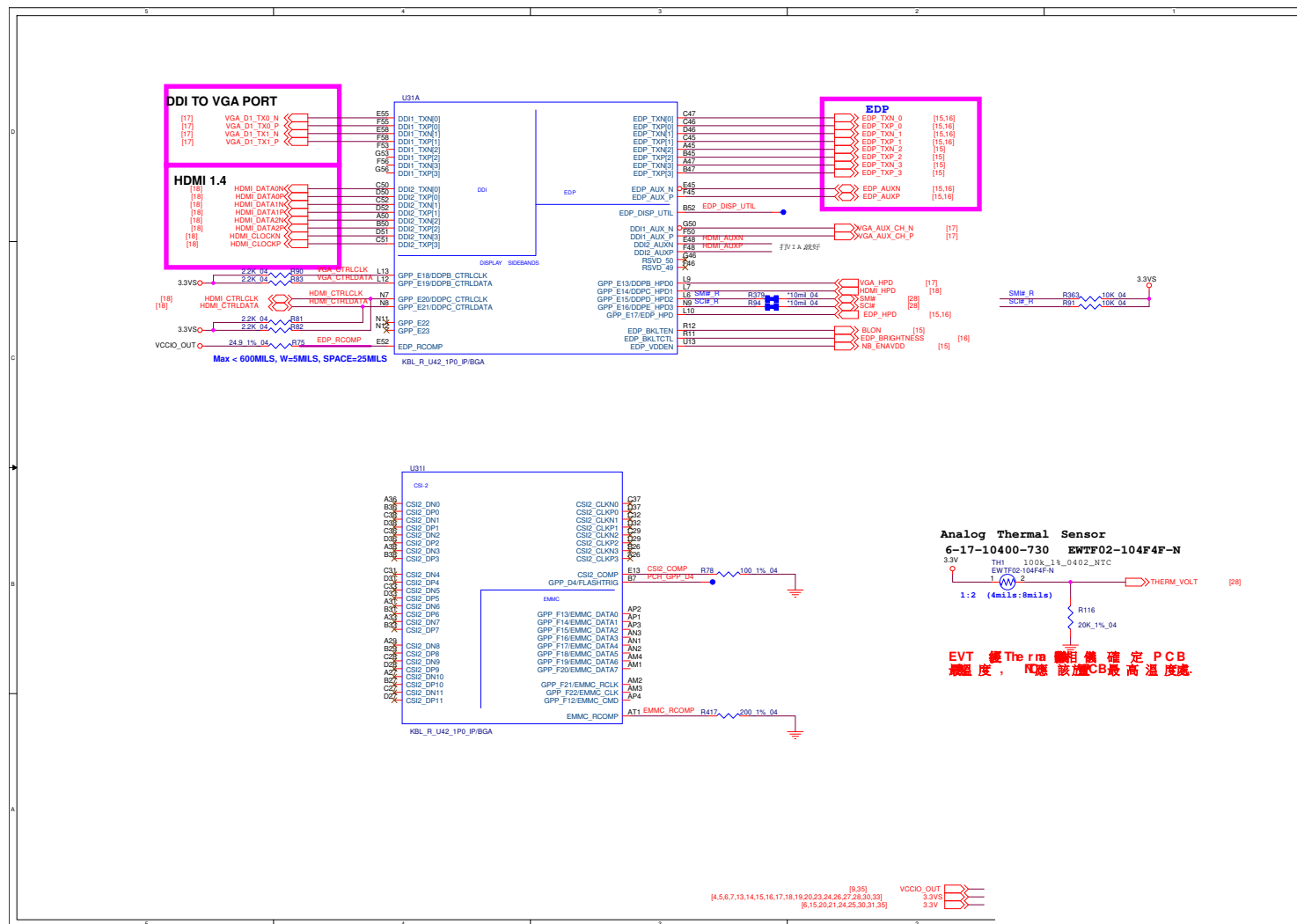
Sheet 1 of 40
System Block
Diagram

Processor 1/11 B - 3



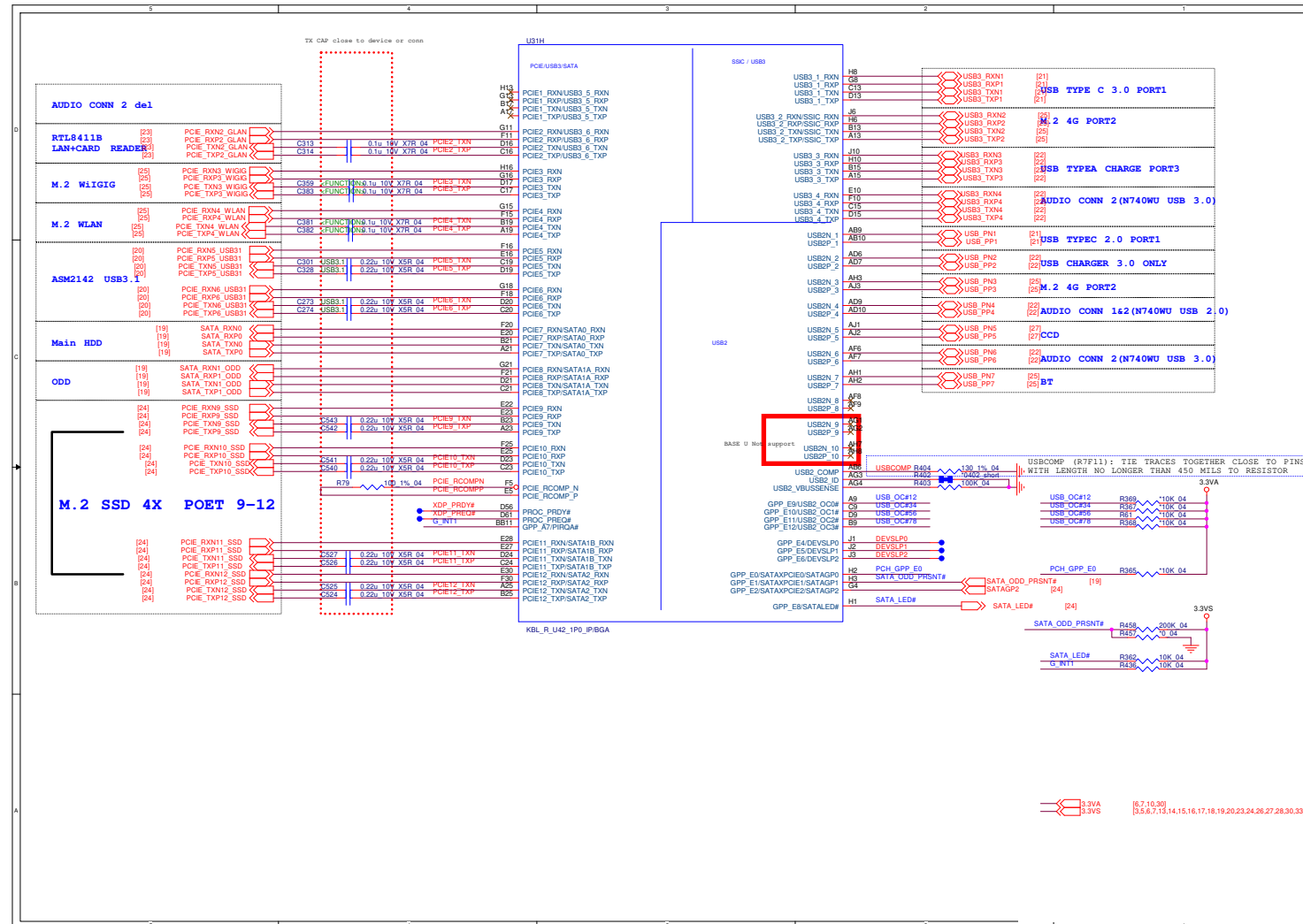
Processor 2/11

B. Schematic Diagrams



Processor 3/11 B - 5

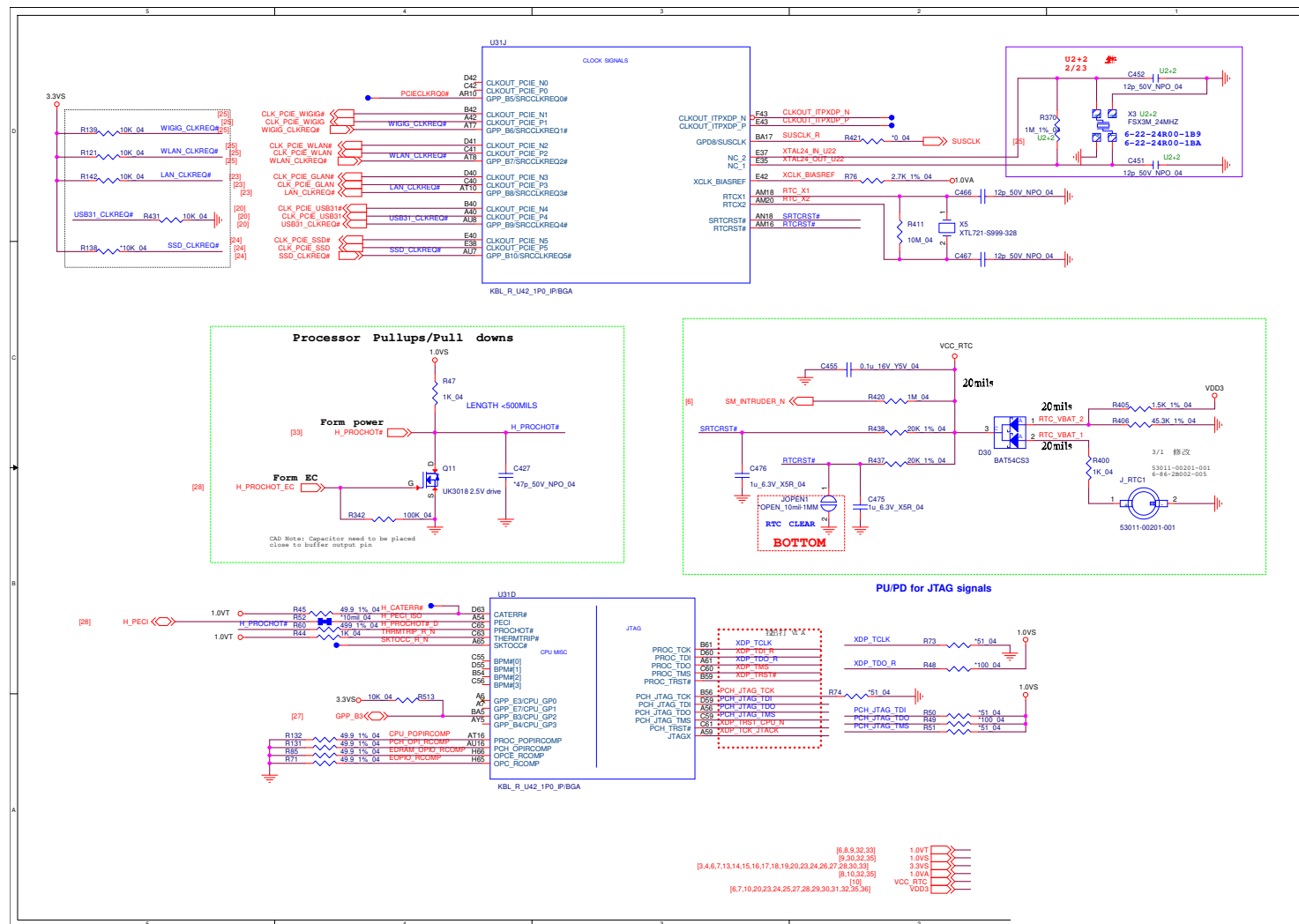
B.Schematic Diagrams



Sheet 4 of 40
Processor 3/11

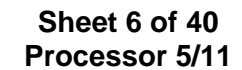
Processor 4/11

Sheet 5 of 40
Processor 4/11



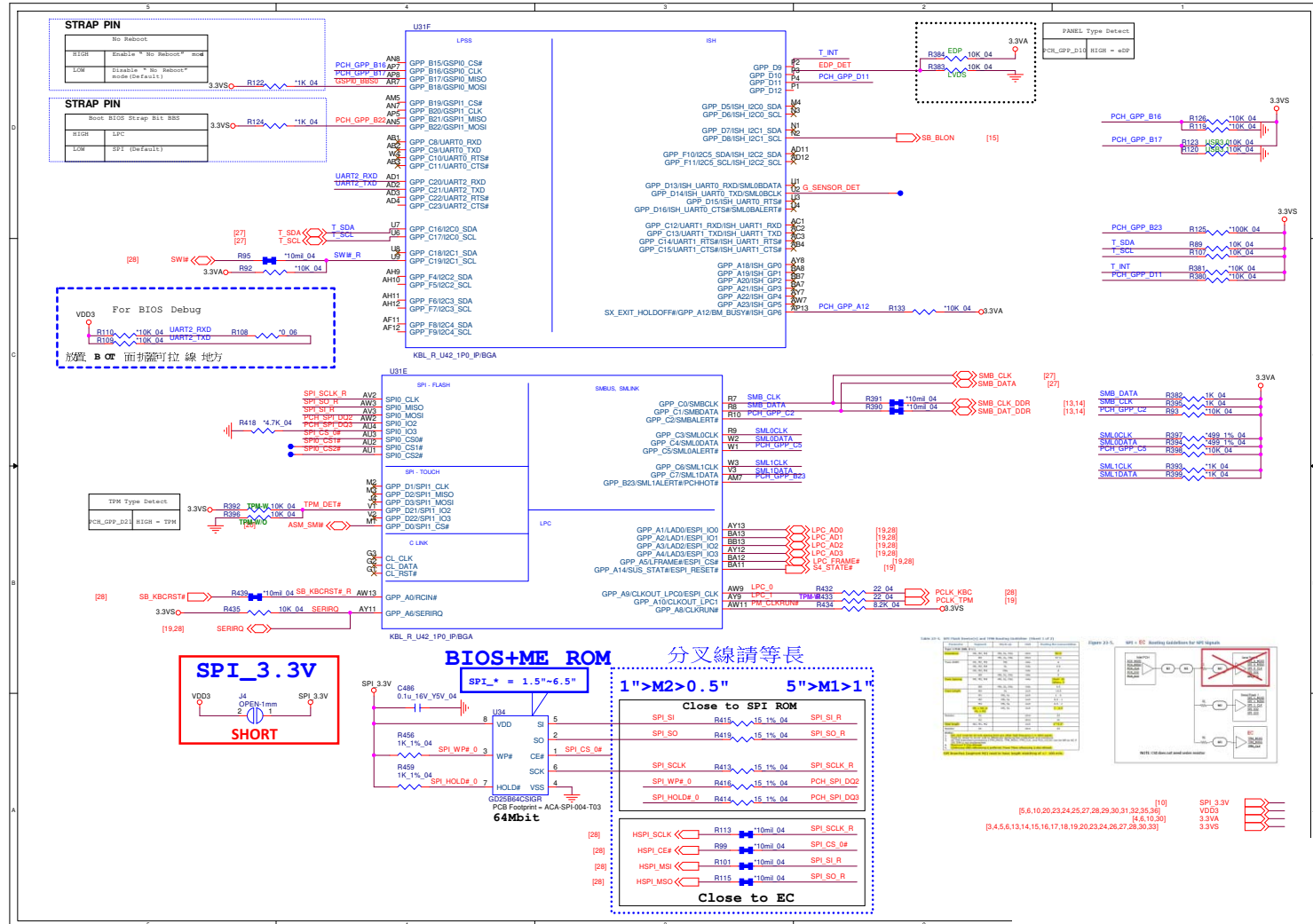
B.Schematic Diagrams

Processor 5/11 B - 7

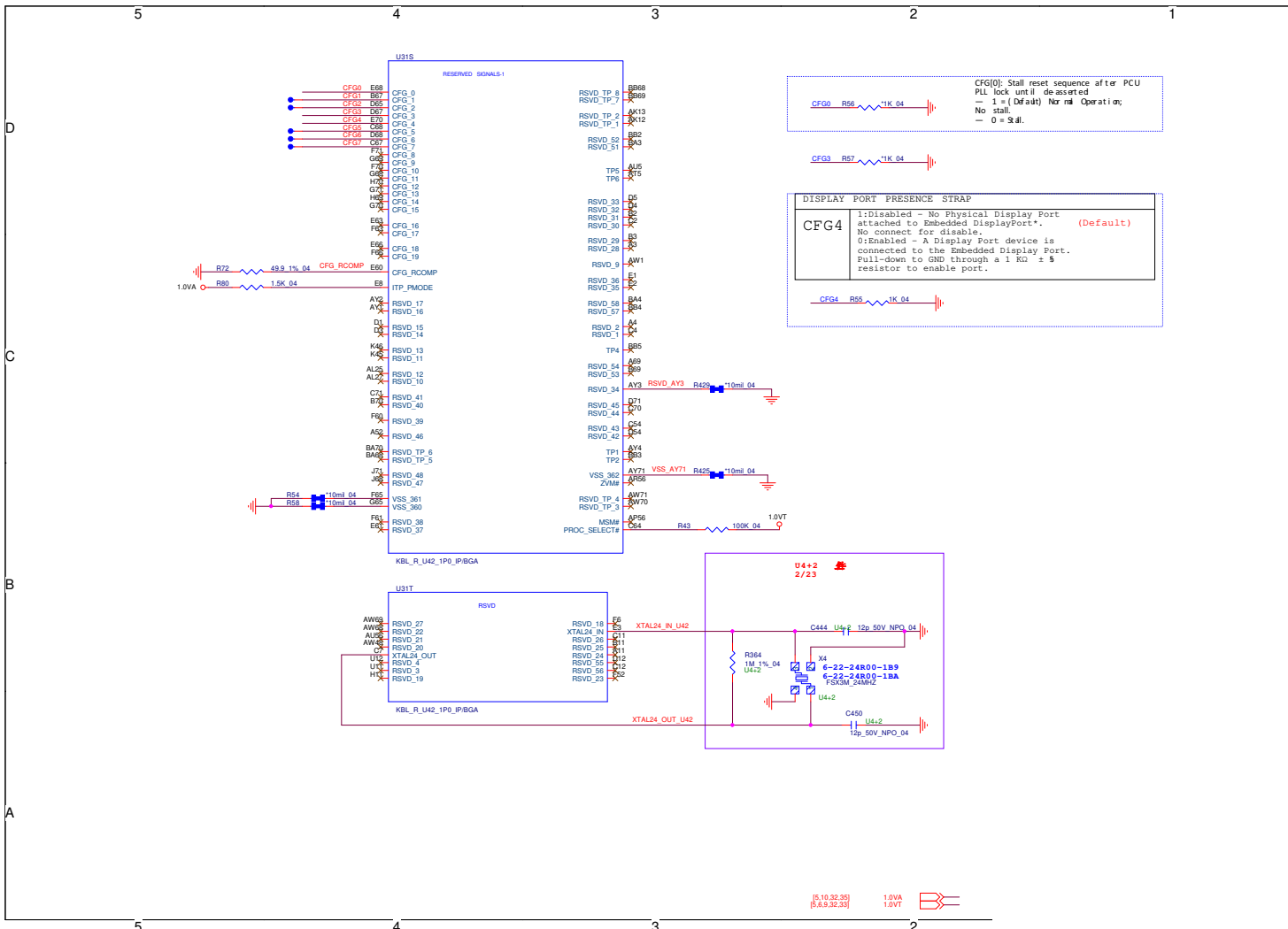


Processor 6/11

Sheet 7 of 40
Processor 6/11



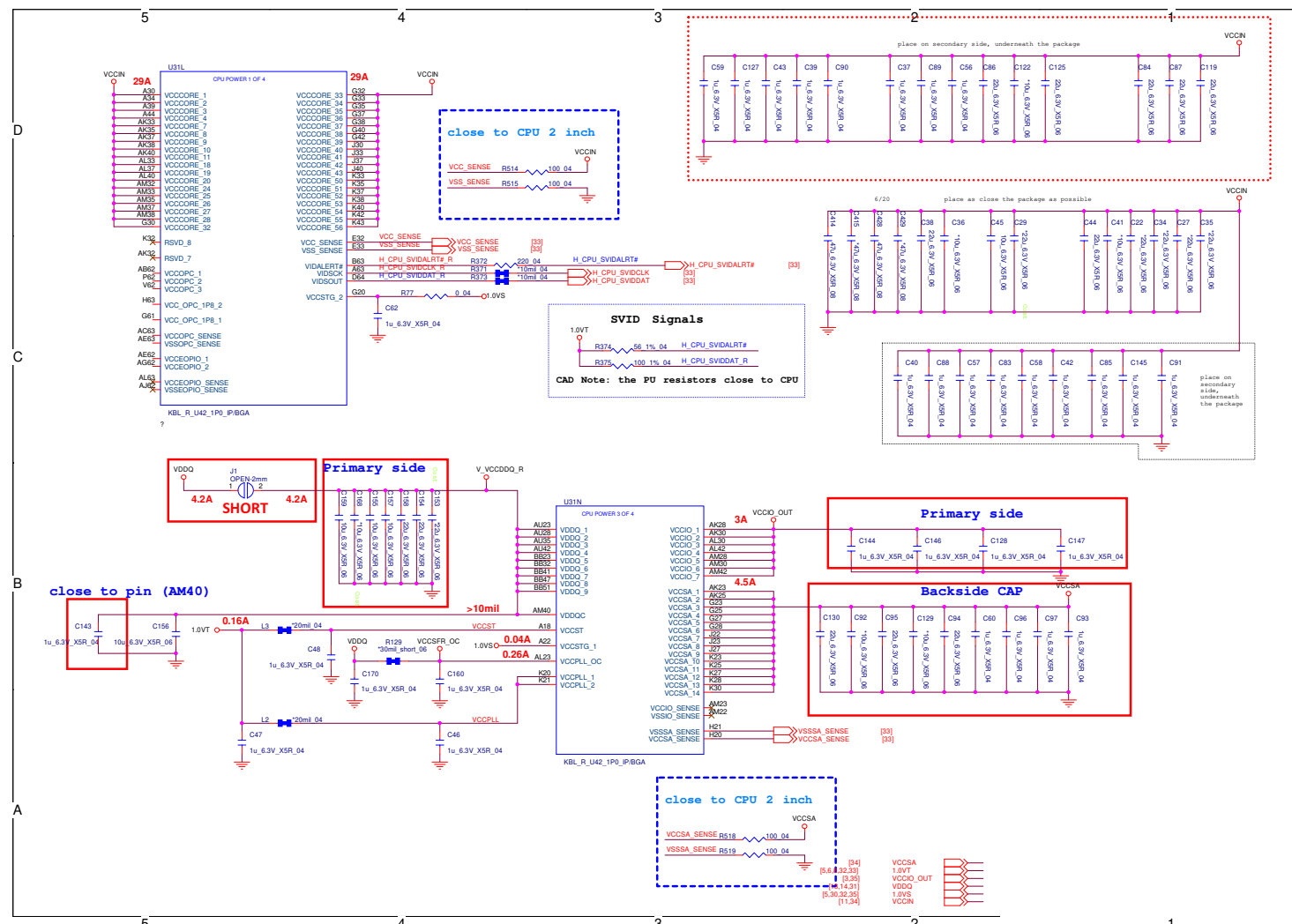
Processor 7/11



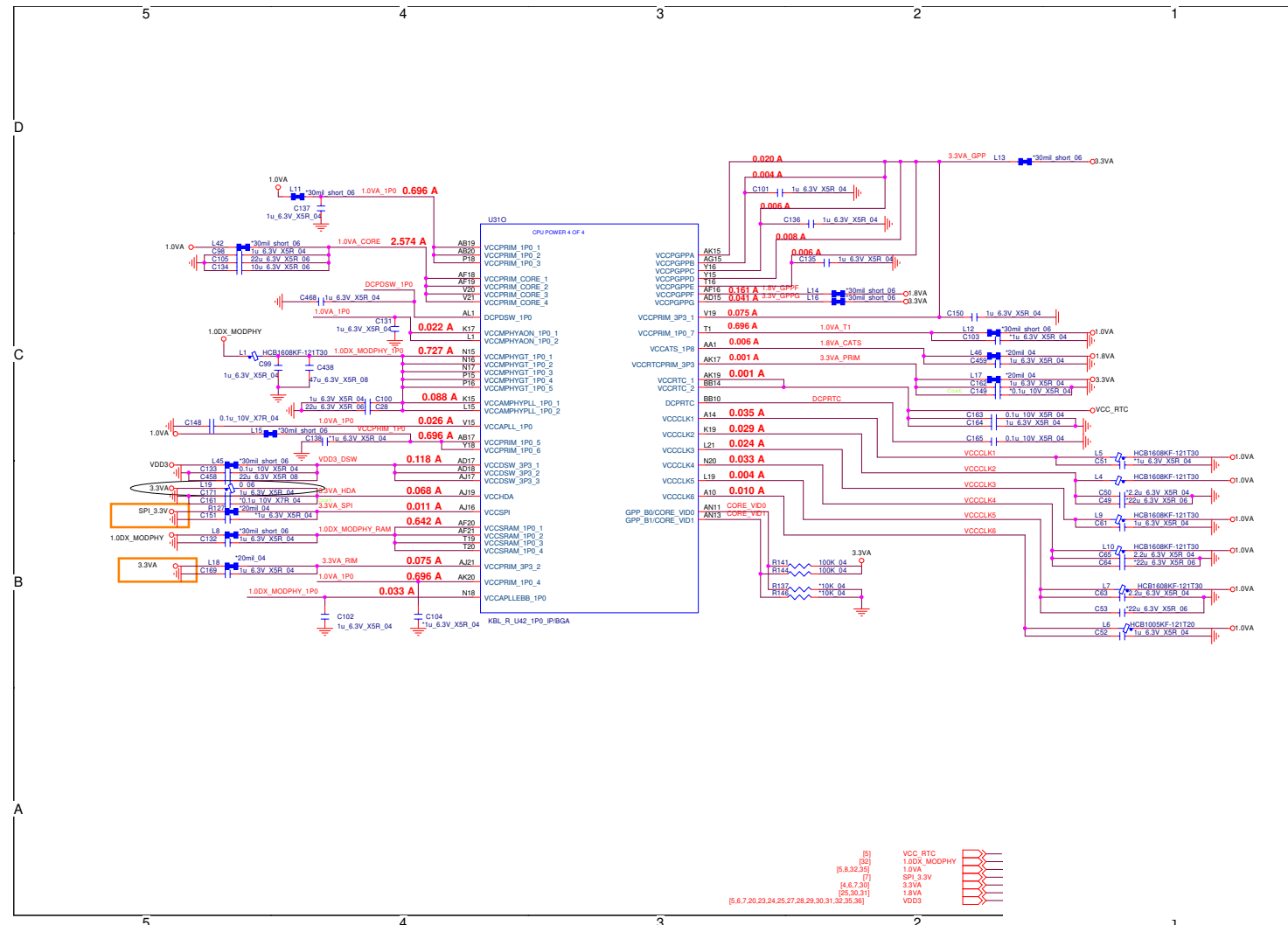
Sheet 8 of 40
Processor 7/11

B. Schematic Diagrams

Sheet 9 of 40
Processor 8/11

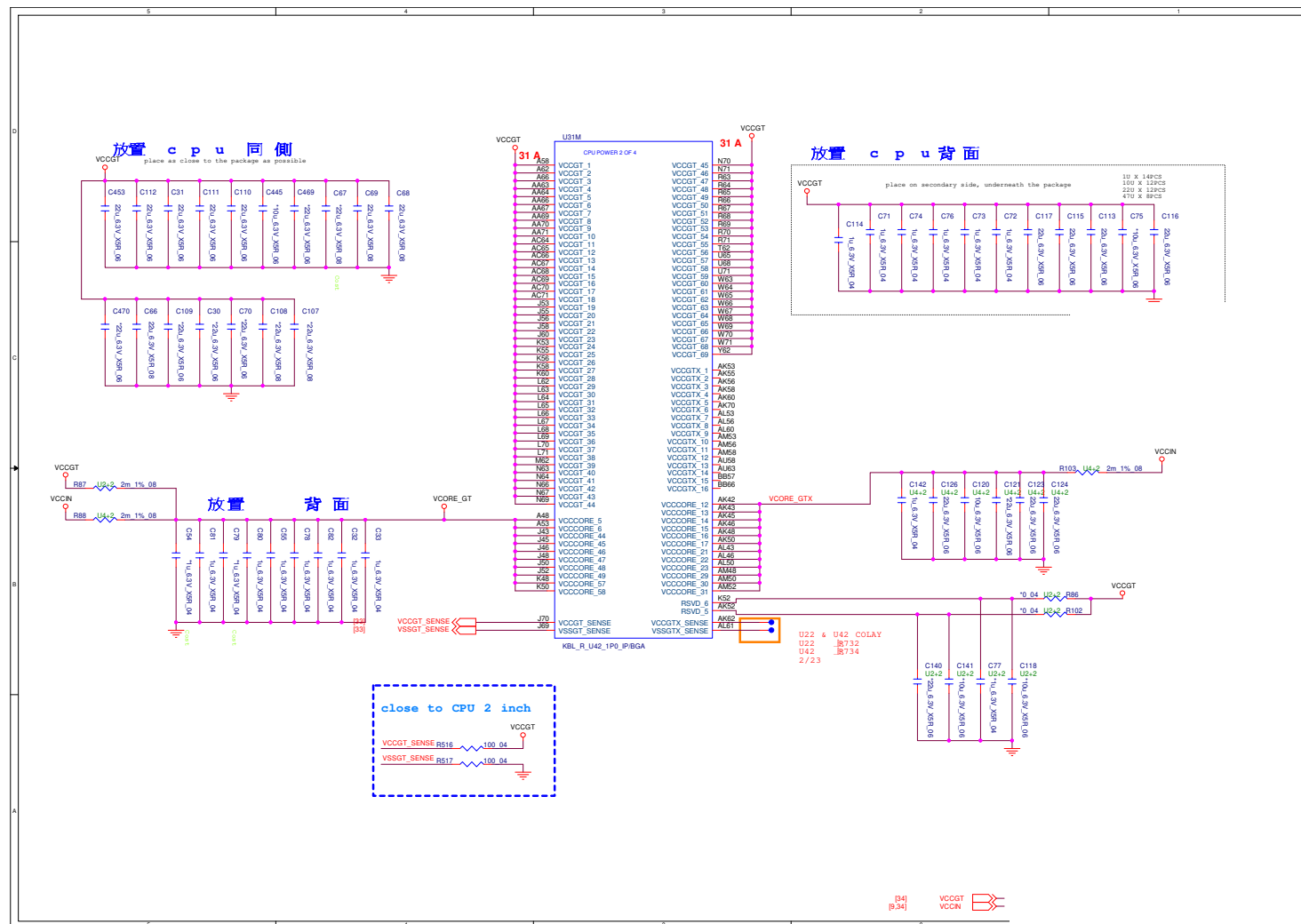


Processor 9/11 B - 11

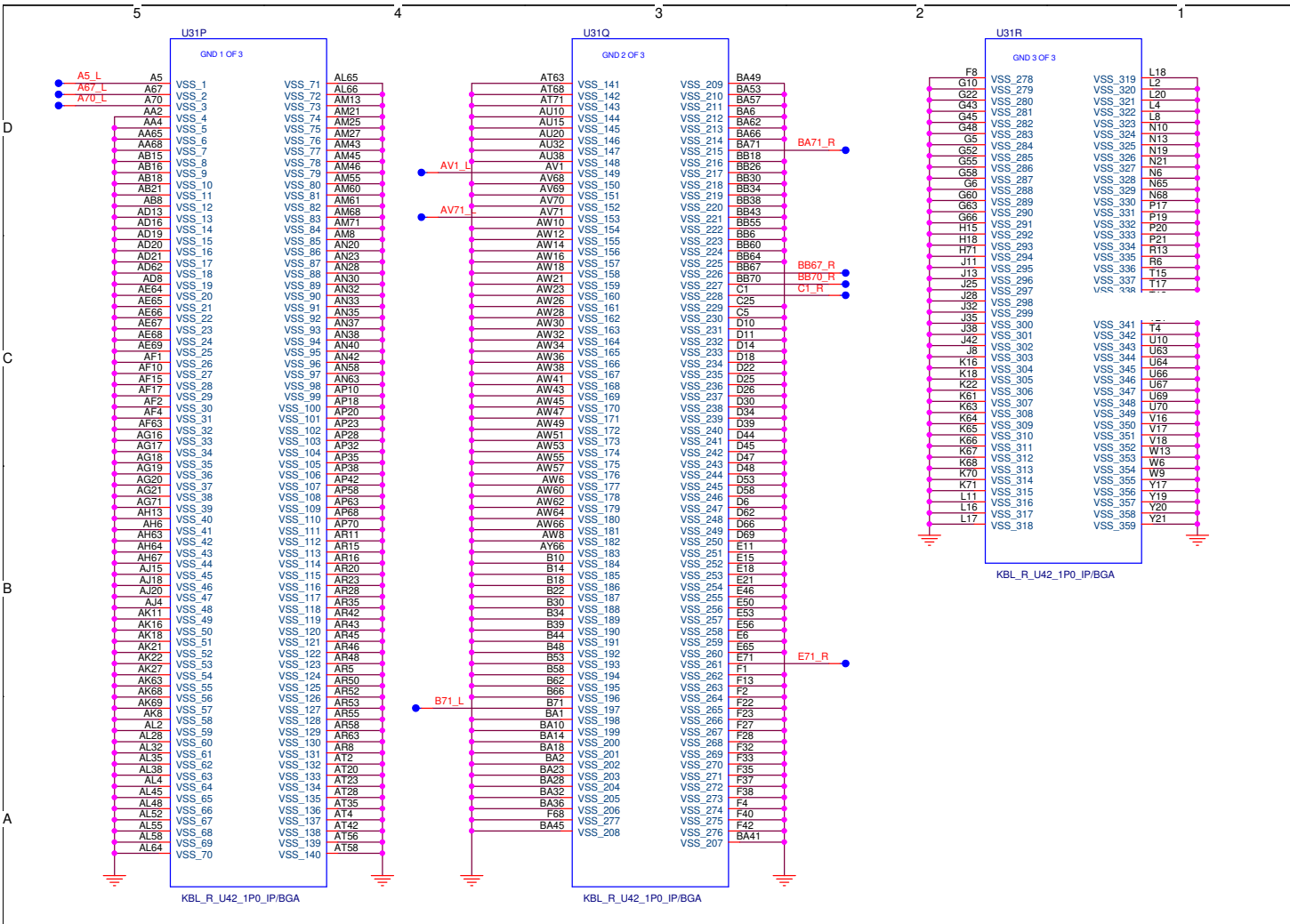


Processor 10/11

Sheet 11 of 40
Processor 10/11



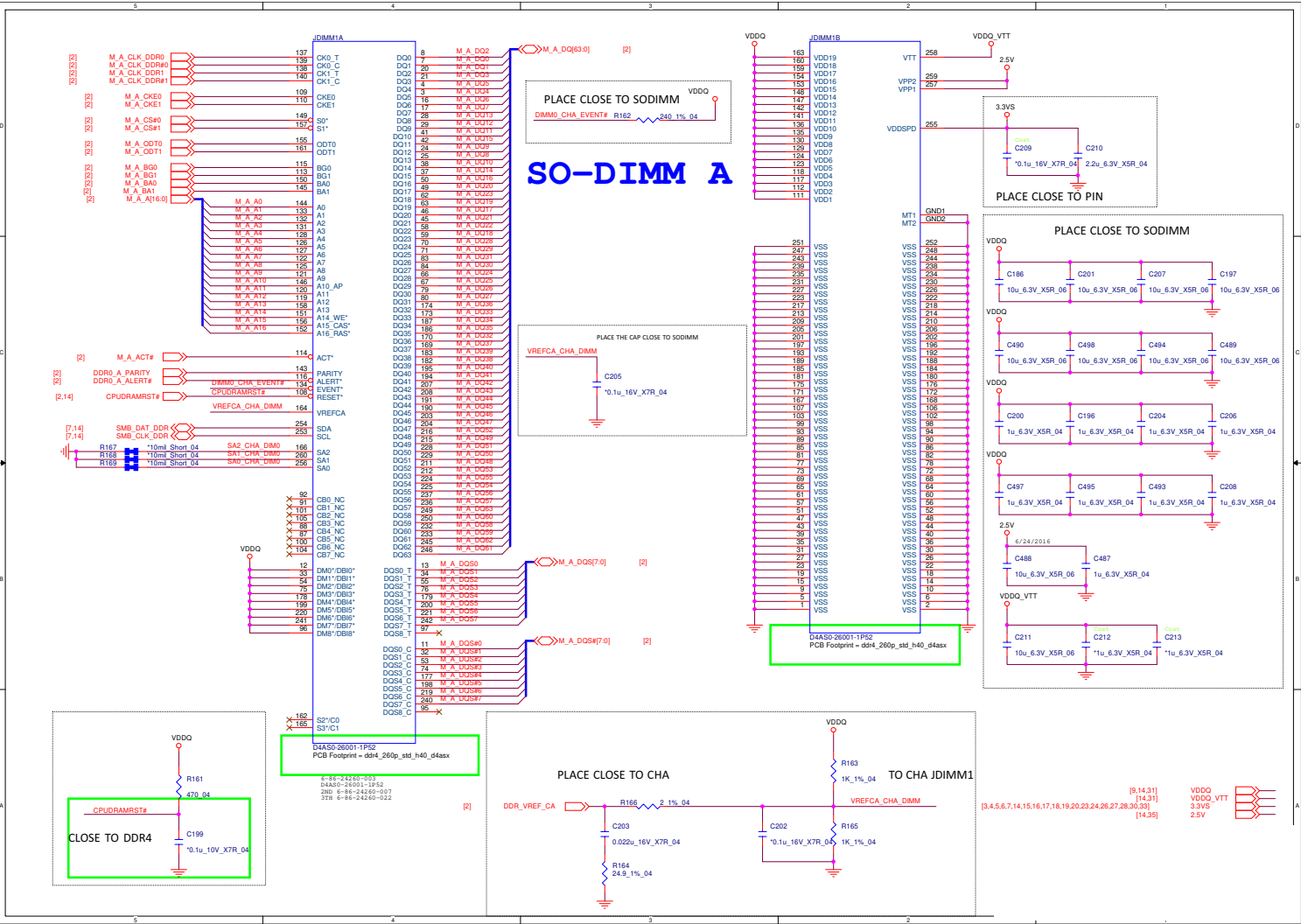
Processor 11/11

Sheet 12 of 40
Processor 11/11

Schematic Diagrams

DDR4 SO_DIMM_0

Sheet 13 of 40
DDR4 SO-DIMM_0

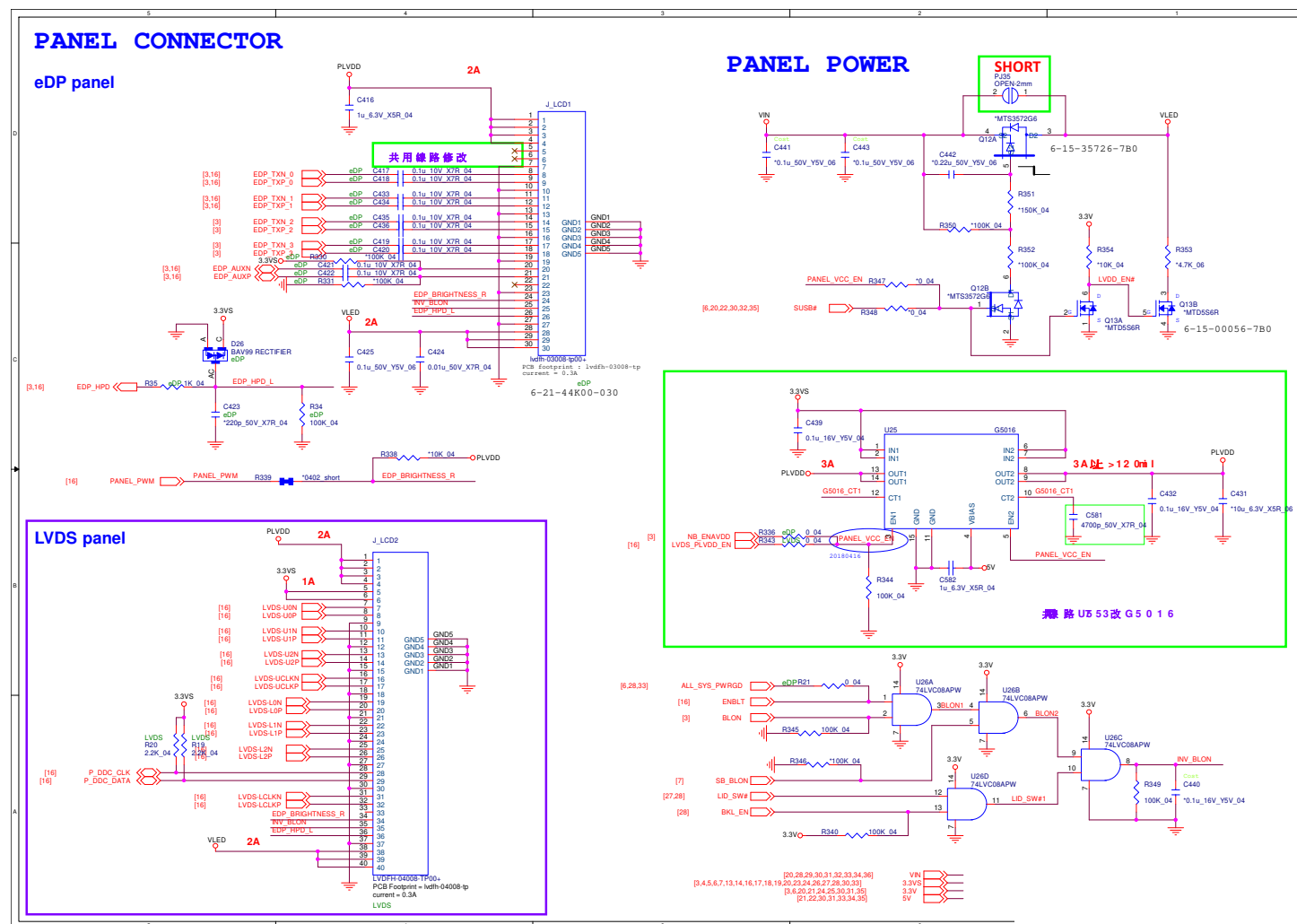


[illegible]

Panel, Inverter

B. Schematic Diagrams

Sheet 15 of 40
Panel, Inverter



Power

3.3VS 40mils 40mils 80mils 80mils

LVDS R12 C10 C8 C361 C362

2.2u 6.3V_XSR_04 0.1u 10V_XTR_04 0.1u 10V_XTR_04 0.1u 10V_XTR_04

AVCC33 DVCC33

LVDS R28 HPD

EDP_HP LVDS R28 0.04 HPD

EDP_AUXN LVDS R40 0.04 LVDS C17 0.1u 10V_XTR_04 DAUXN

EDP_AUXP LVDS R39 0.04 LVDS C18 0.1u 10V_XTR_04 DAUXP

EDP_TXP_0 LVDS R37 0.04 LVDS C9 0.1u 10V_XTR_04 DRXP0

EDP_TXN_0 LVDS R36 0.04 LVDS C4 0.1u 10V_XTR_04 DRXP0

EDP_TXP_1 LVDS R42 0.04 LVDS C3 0.1u 10V_XTR_04 DRXP1

EDP_TXN_1 LVDS R41 0.04 LVDS C2 0.1u 10V_XTR_04 DRXP1

Mode Configure Table(Power On Latch)

| | | MODE_CFG0(PIN47) | |
|------------------|---|------------------|-------------|
| | | 0 | 1 |
| MODE_CFG1(PIN48) | 0 | x | EP MODE |
| | 1 | ROM ONLY MODE | EEPROM MODE |

Dual Mode Regulator Configuration

| | 2.2uH(L) | 0 Ohm(R) |
|-----|----------|----------|
| SWR | Connect | NC |
| LDO | NC | Connect |

RTD2136N

RTD2136N supports three operation mode for system design.

Reserved 4.7K resistor pull up/low for mode selection

ROM ONLY Mode : PIN47 4.7K pull low, PIN48 4.7K pull high

EP Mode : PIN47 4.7K pull high, PIN48 4.7K pull low

EEPROM Mode : PIN47 4.7K pull high, PIN48 4.7K pull high

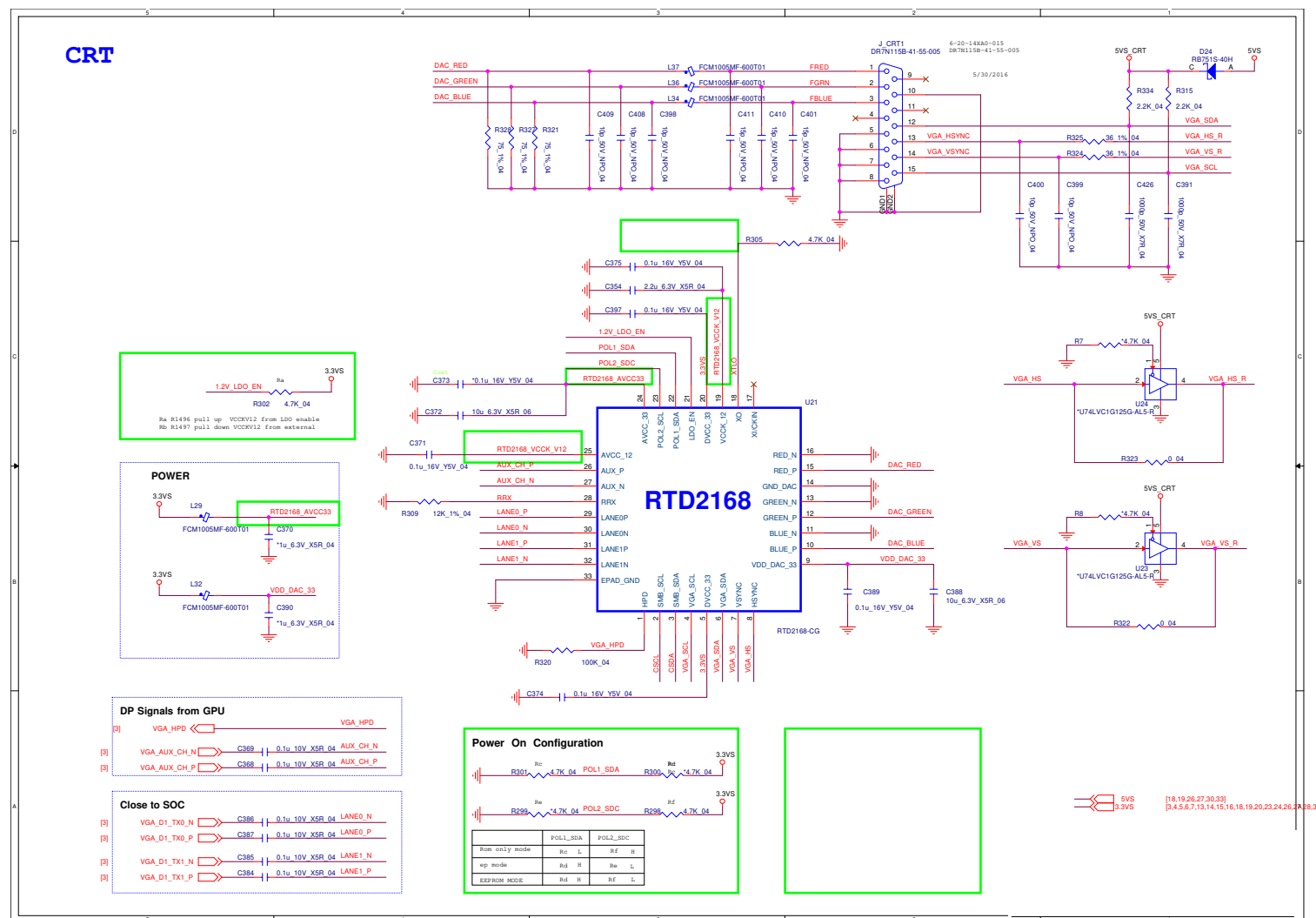
1. EEPROM with a size 8K-Byte

2. EEPROM device should be 2-byte addressing device

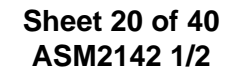
3. Sleep address should configure as 0x60

VGA RTD2168

Sheet 17 of 40
VGA RTD2168



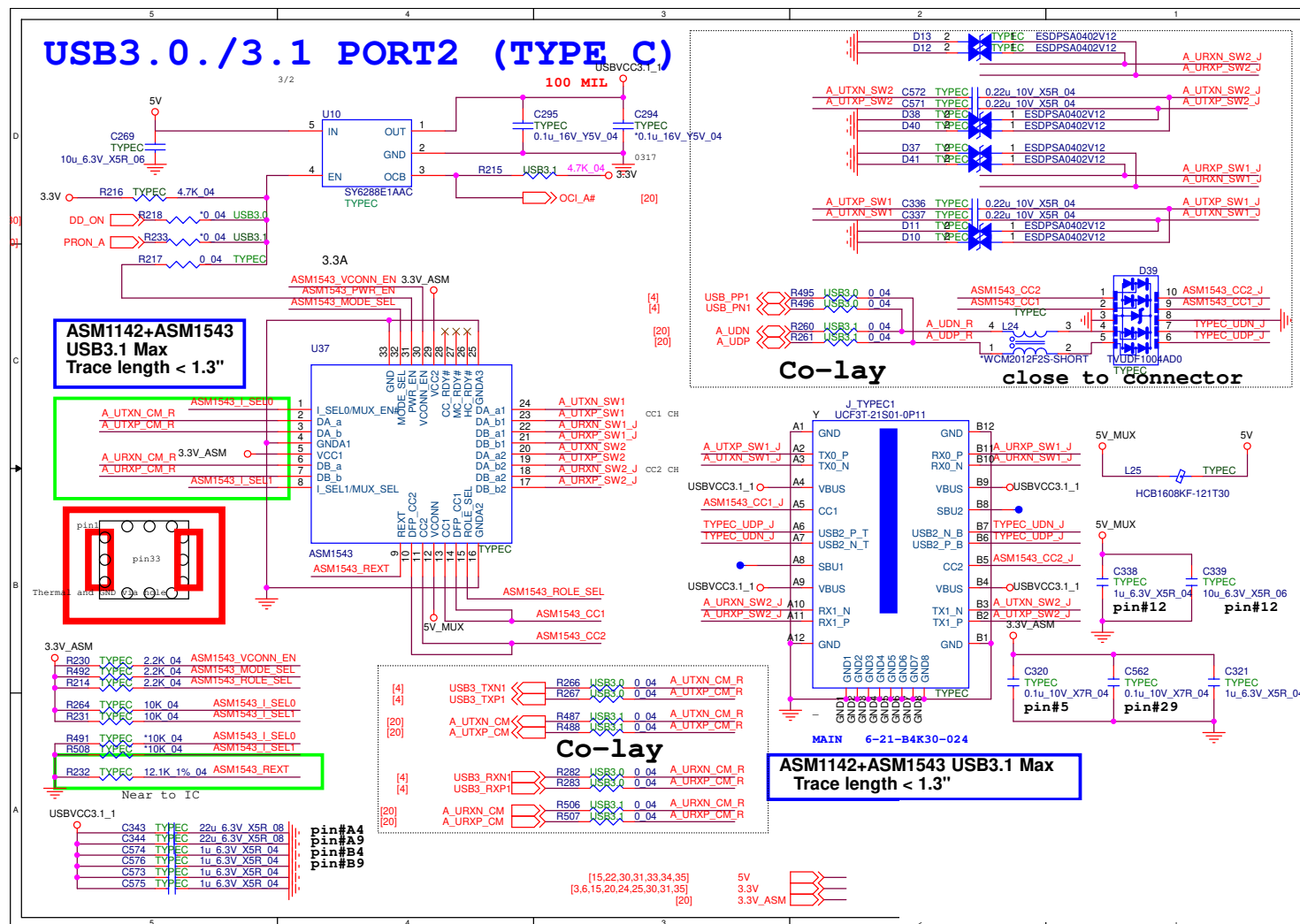
B.Schematic Diagrams



ASM2142 2/2

Sheet 21 of 40
ASM2142 2/2

B. Schematic Diagrams

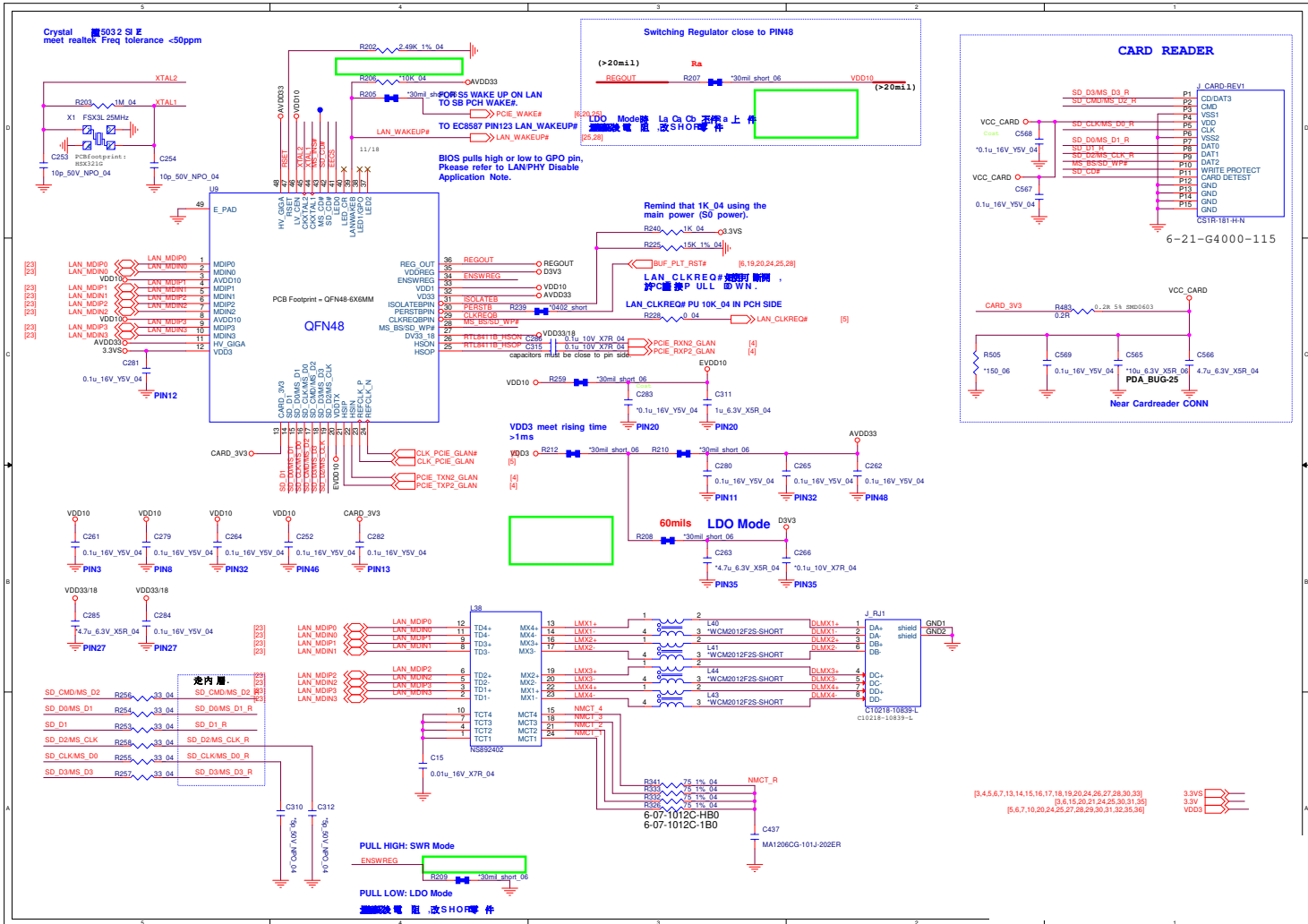


USB, Audio Conn. B - 23

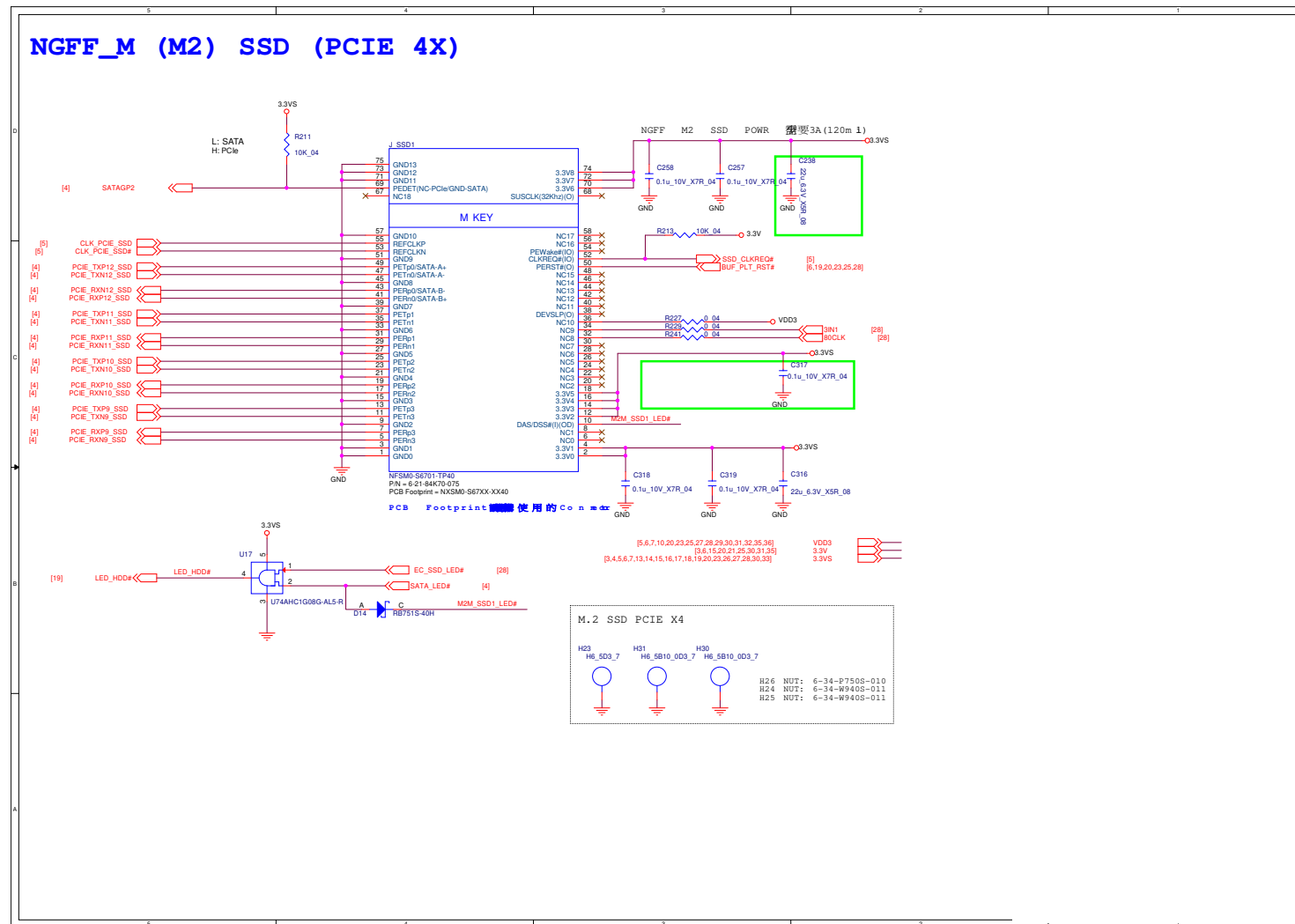
Schematic Diagrams

Card Reader & LAN RTL8411B

Sheet 23 of 40
Card Reader & LAN
RTL8411B



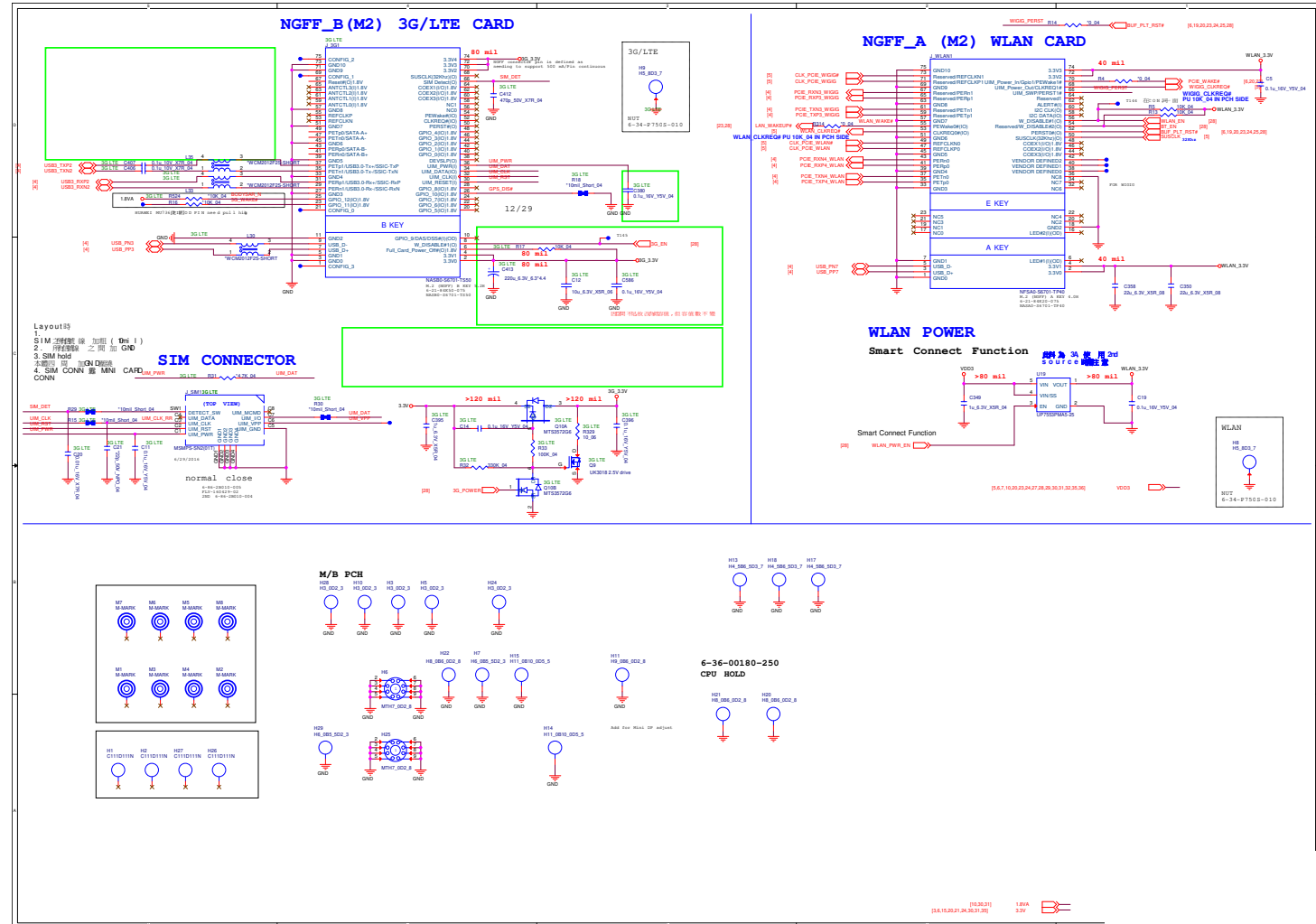
M.2 PCIE SSD

Sheet 24 of 40
M.2 PCIE SSD

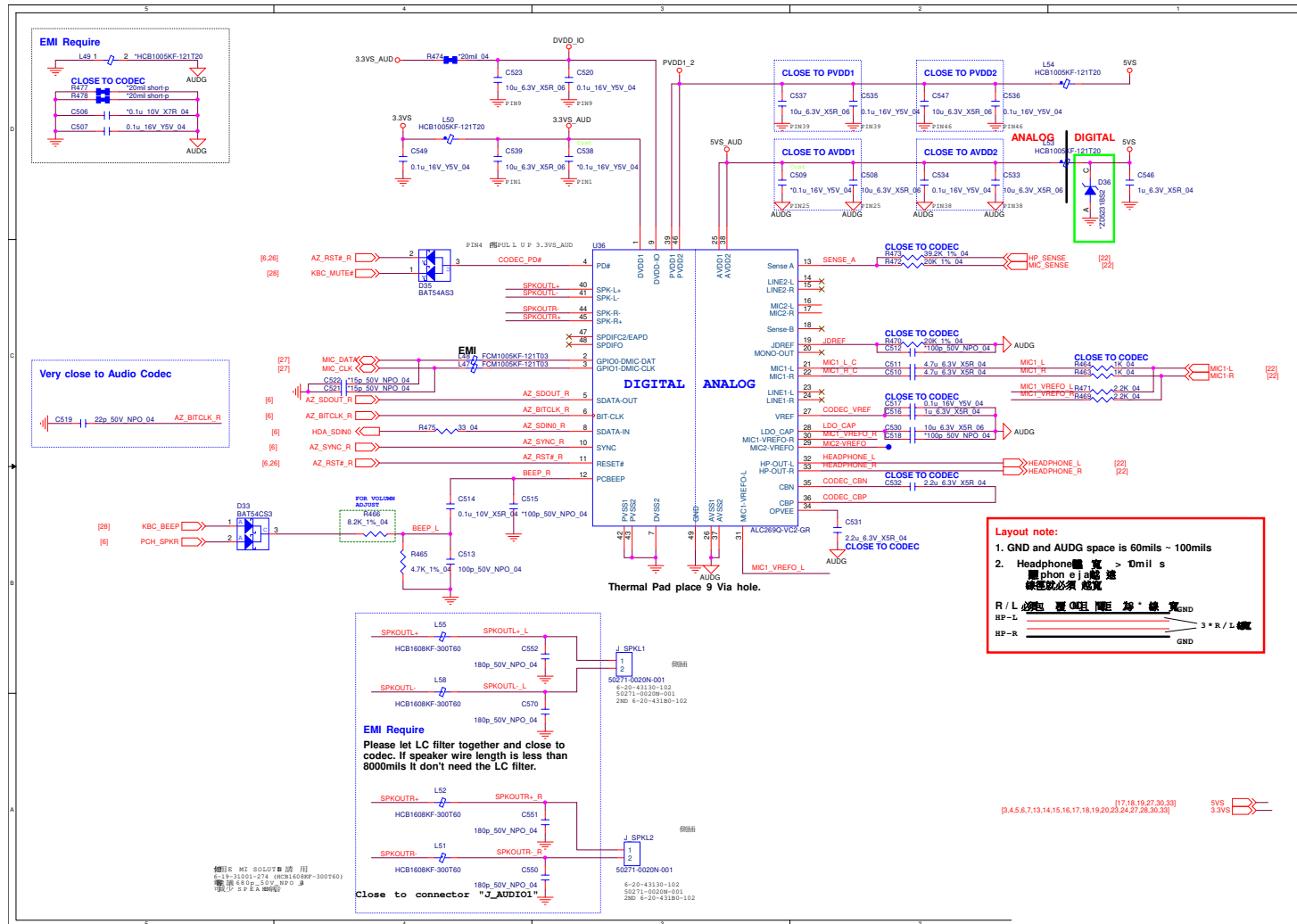
Schematic Diagrams

M.2 (WLAN, 3G, SSD)

Sheet 25 of 40
M.2 (WLAN, 3G,
SSD)

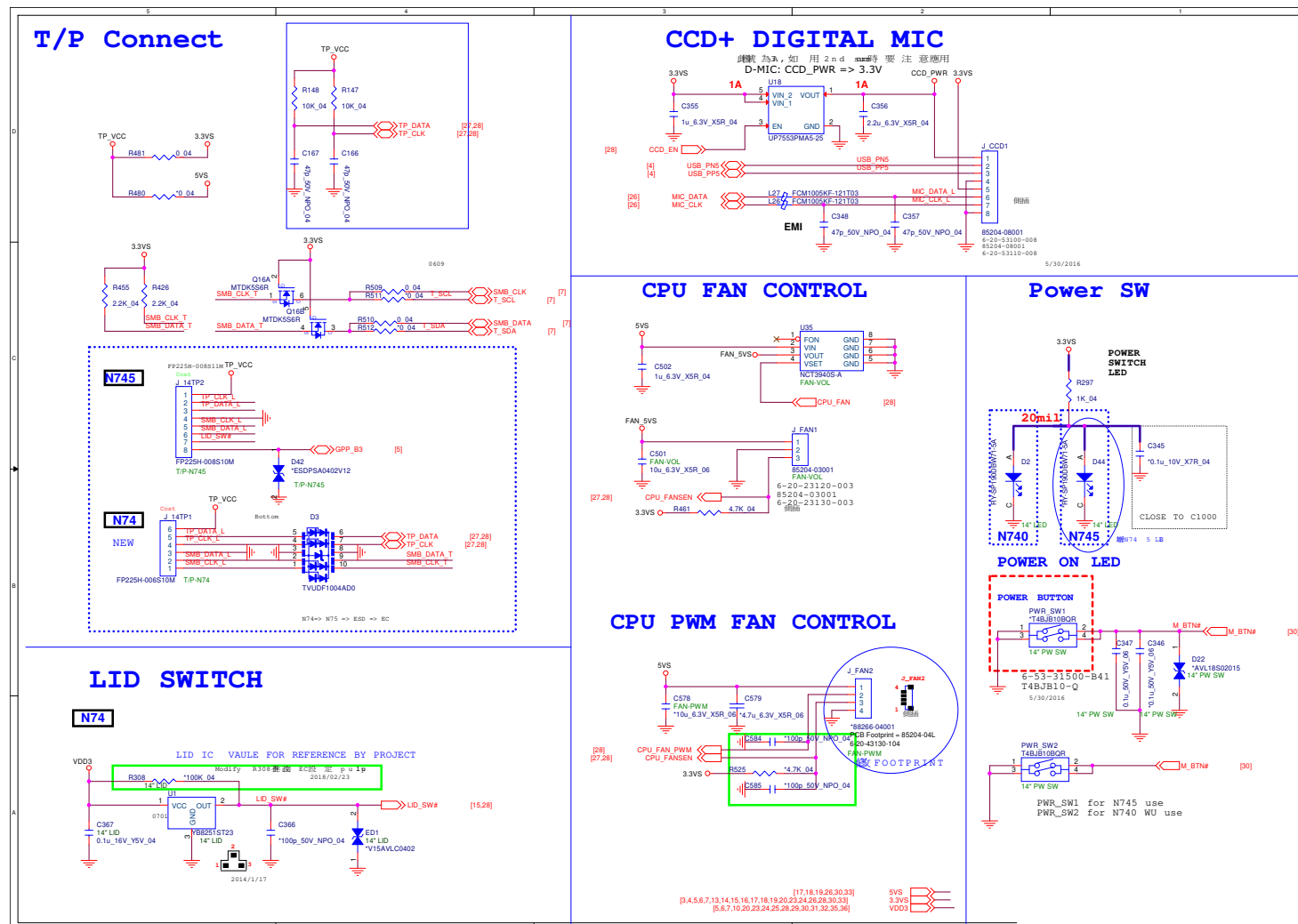


Audio Codec B - 27

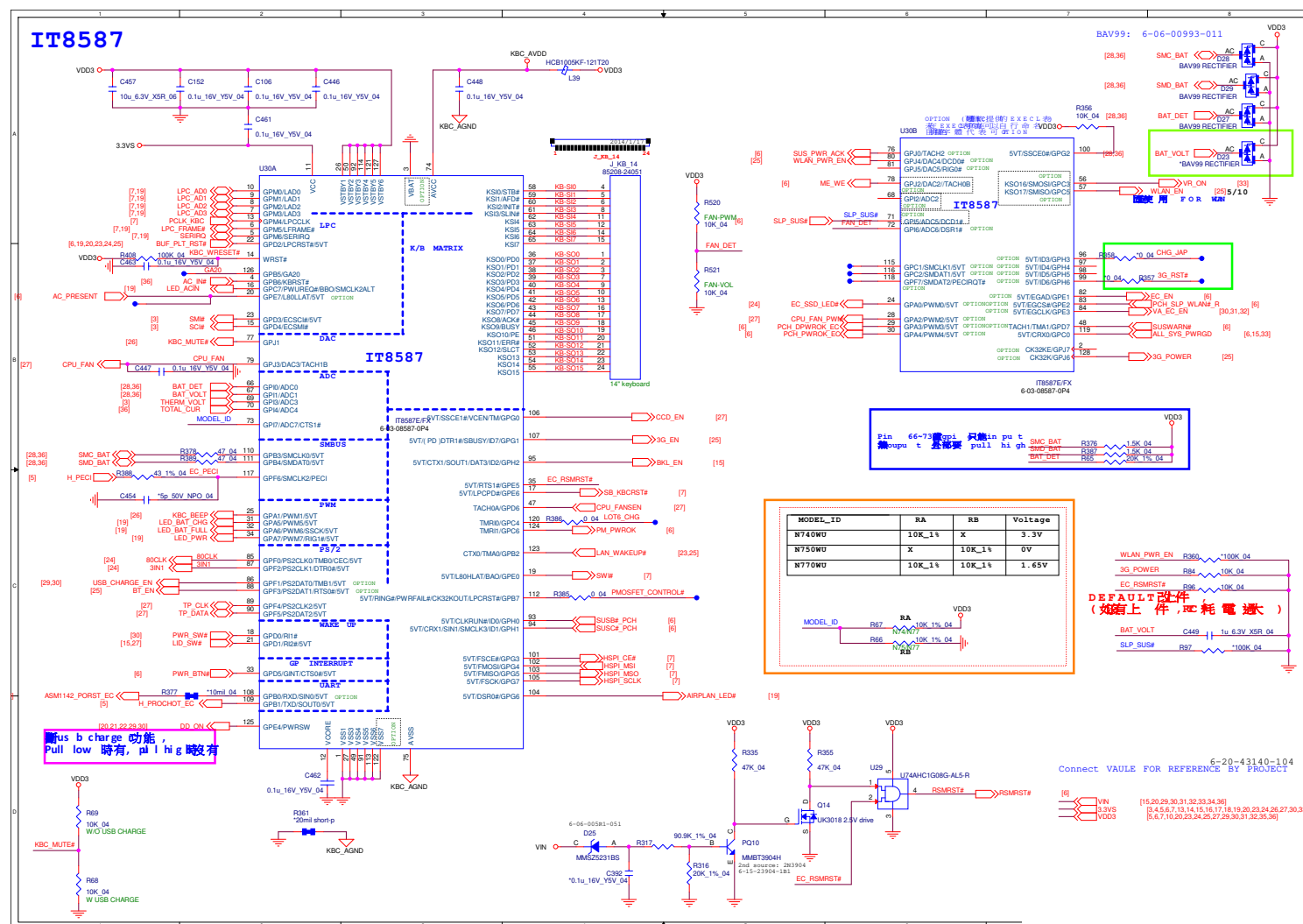


CCD, MIC, LID, I/O Connector

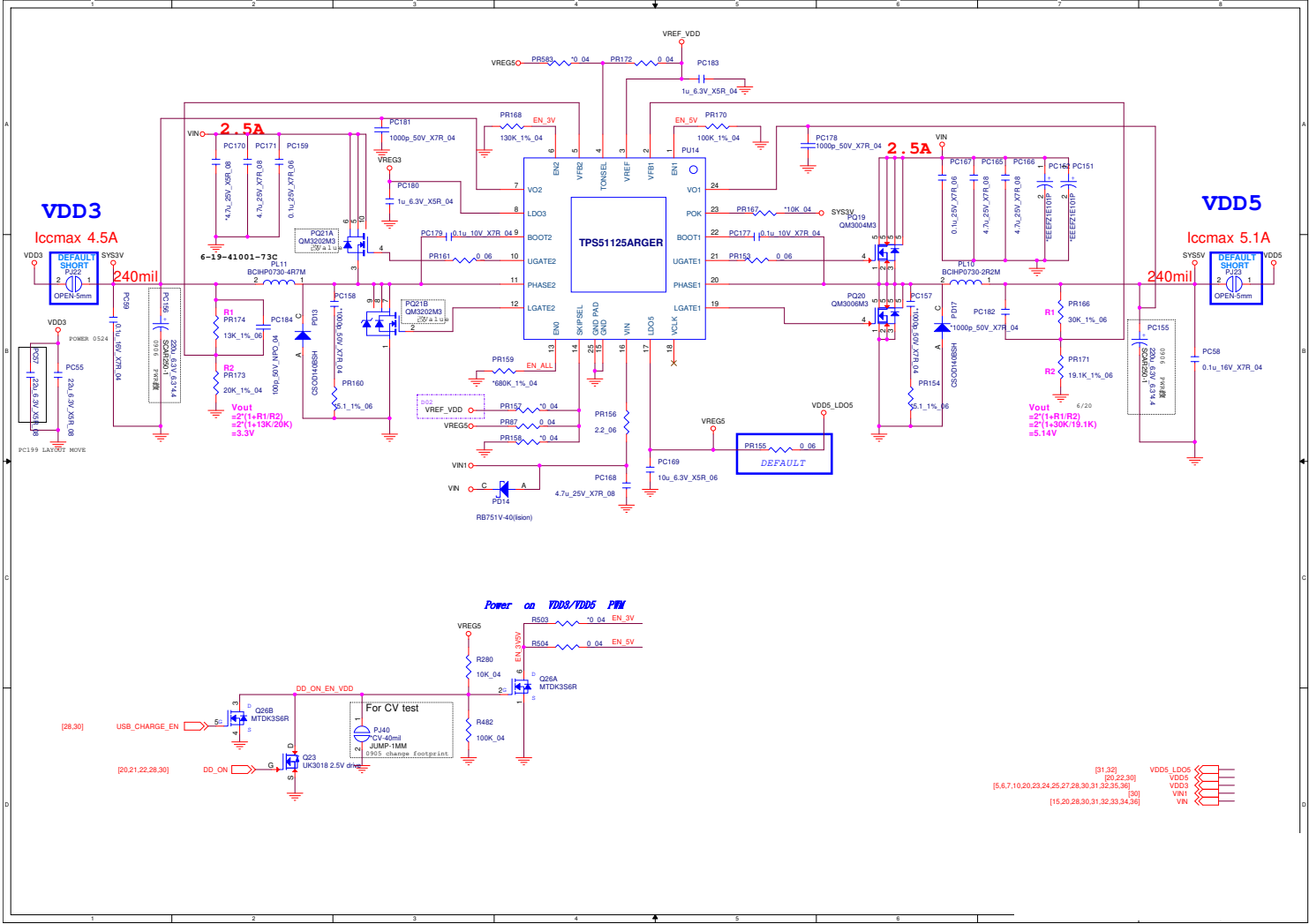
Sheet 27 of 40
CCD, MIC, LID, I/O
Connector



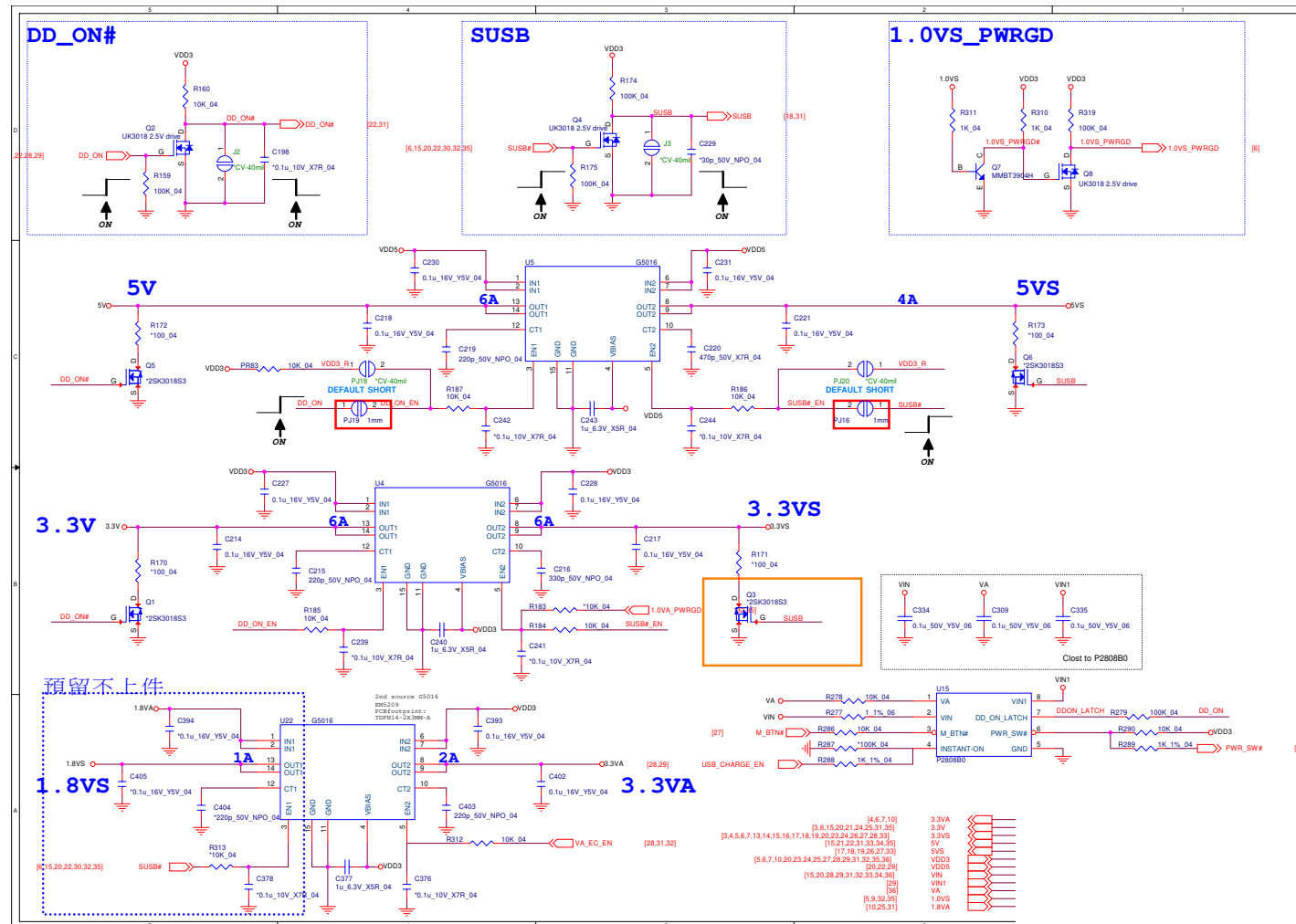
KBC ITE IT8587 B - 29



VDD3, VDD5



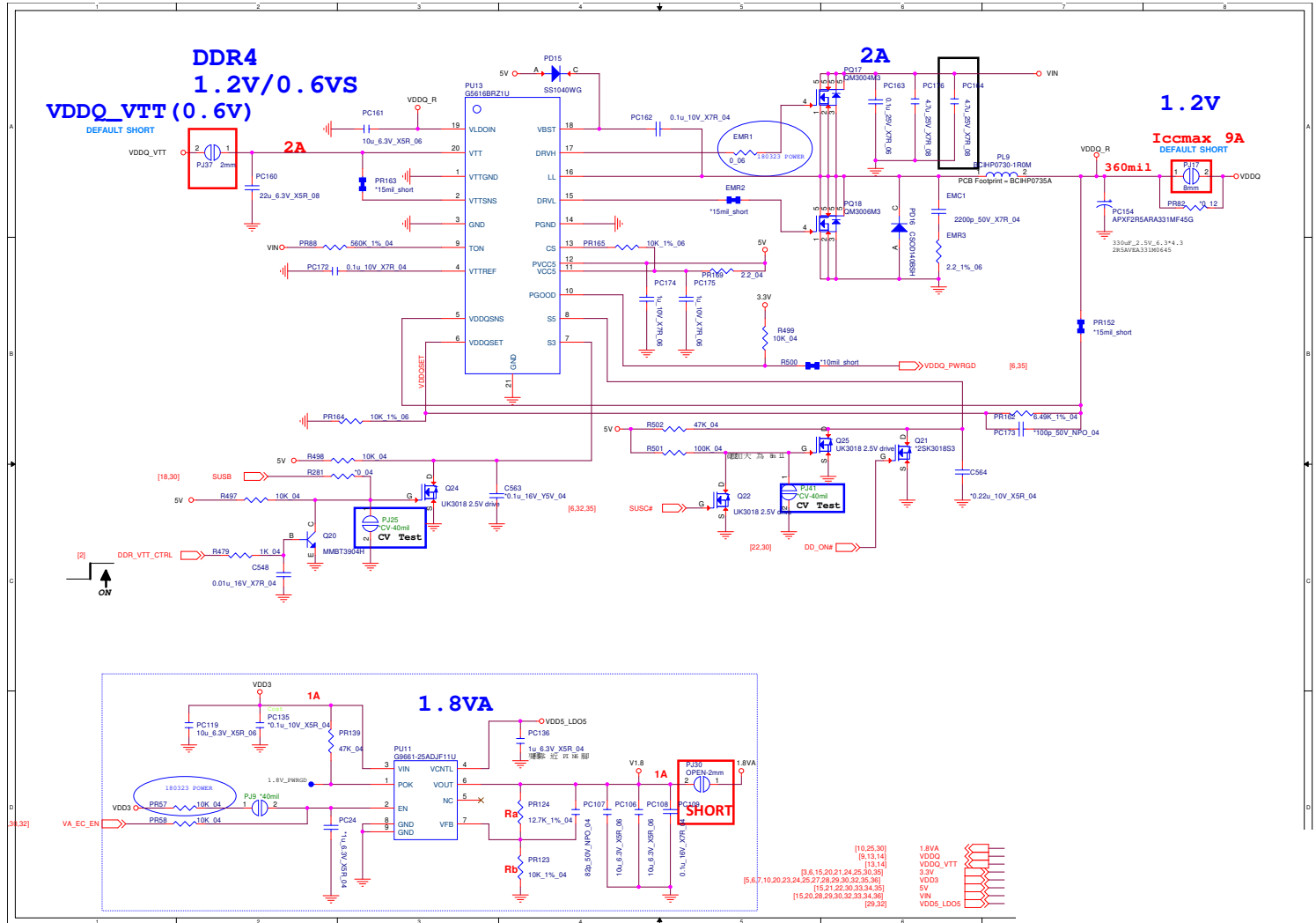
Sheet 30 of 40
5V, 5VS, 3V, 3VS,
1.8VS



Schematic Diagrams

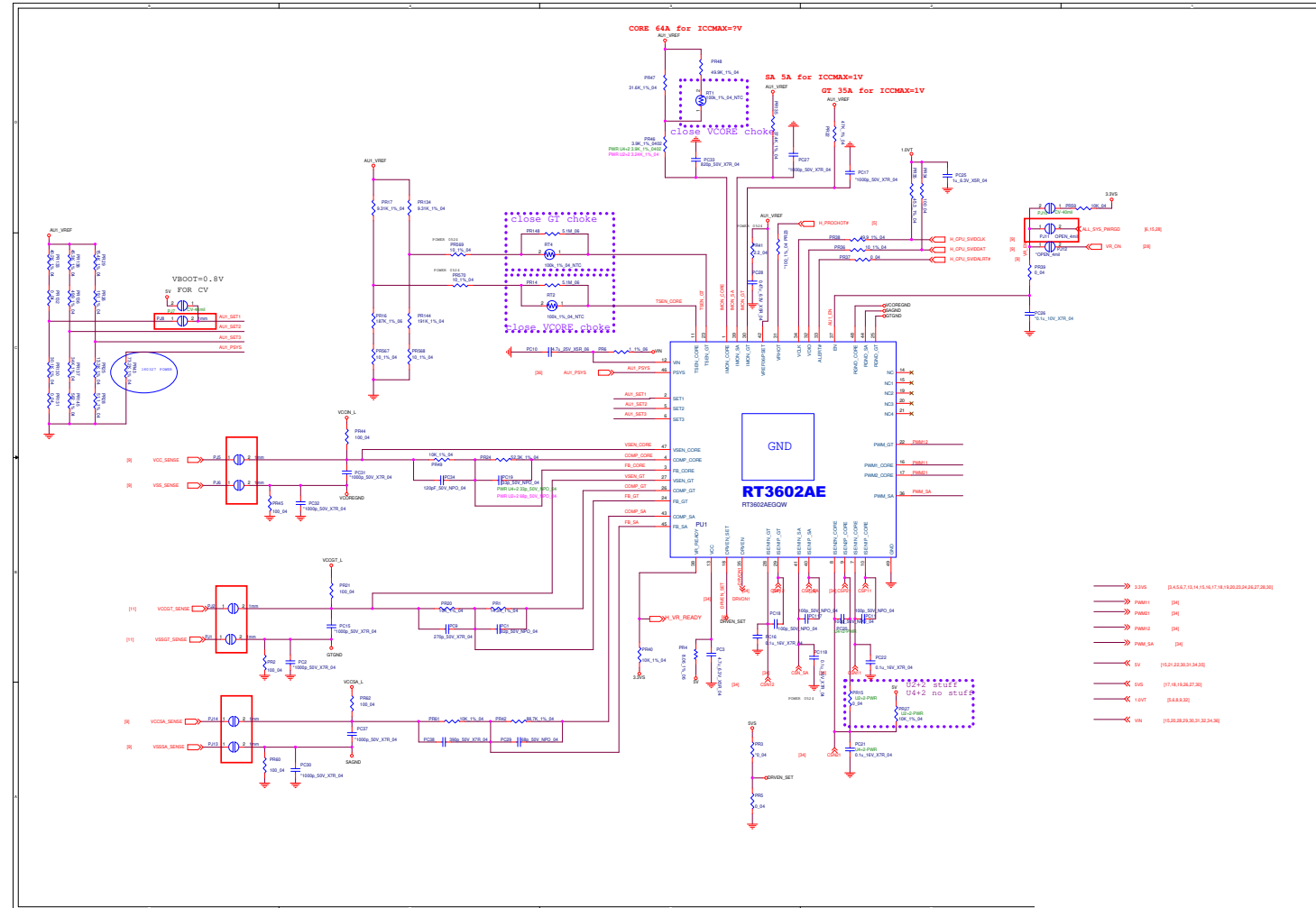
VDDQ, VDDQ_VTT, 1.5VS, 1.8VA

Sheet 31 of 40
VDDQ, VDDQ_VTT,
1.5VS, 1.8VA

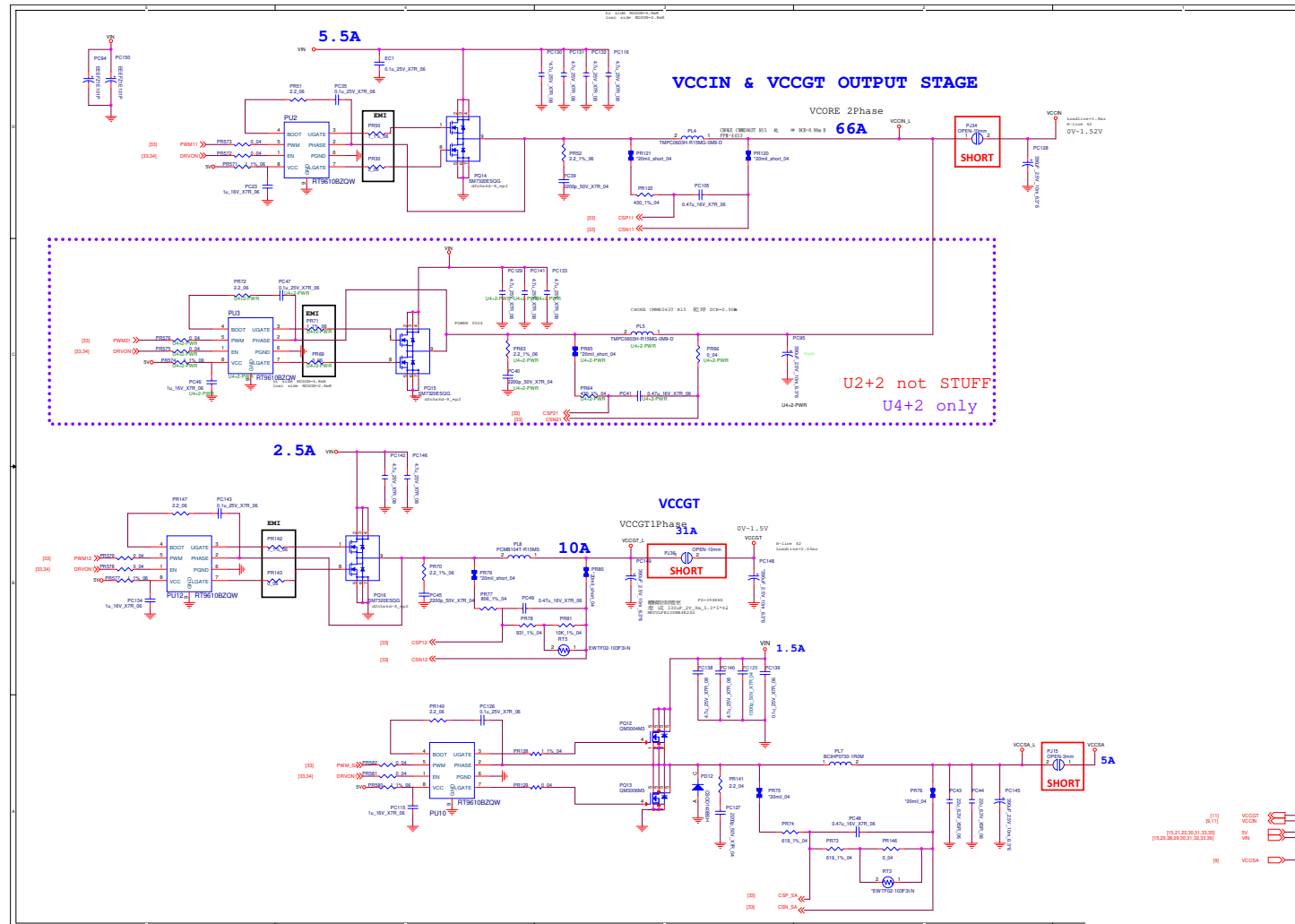


1.0V Series B - 33



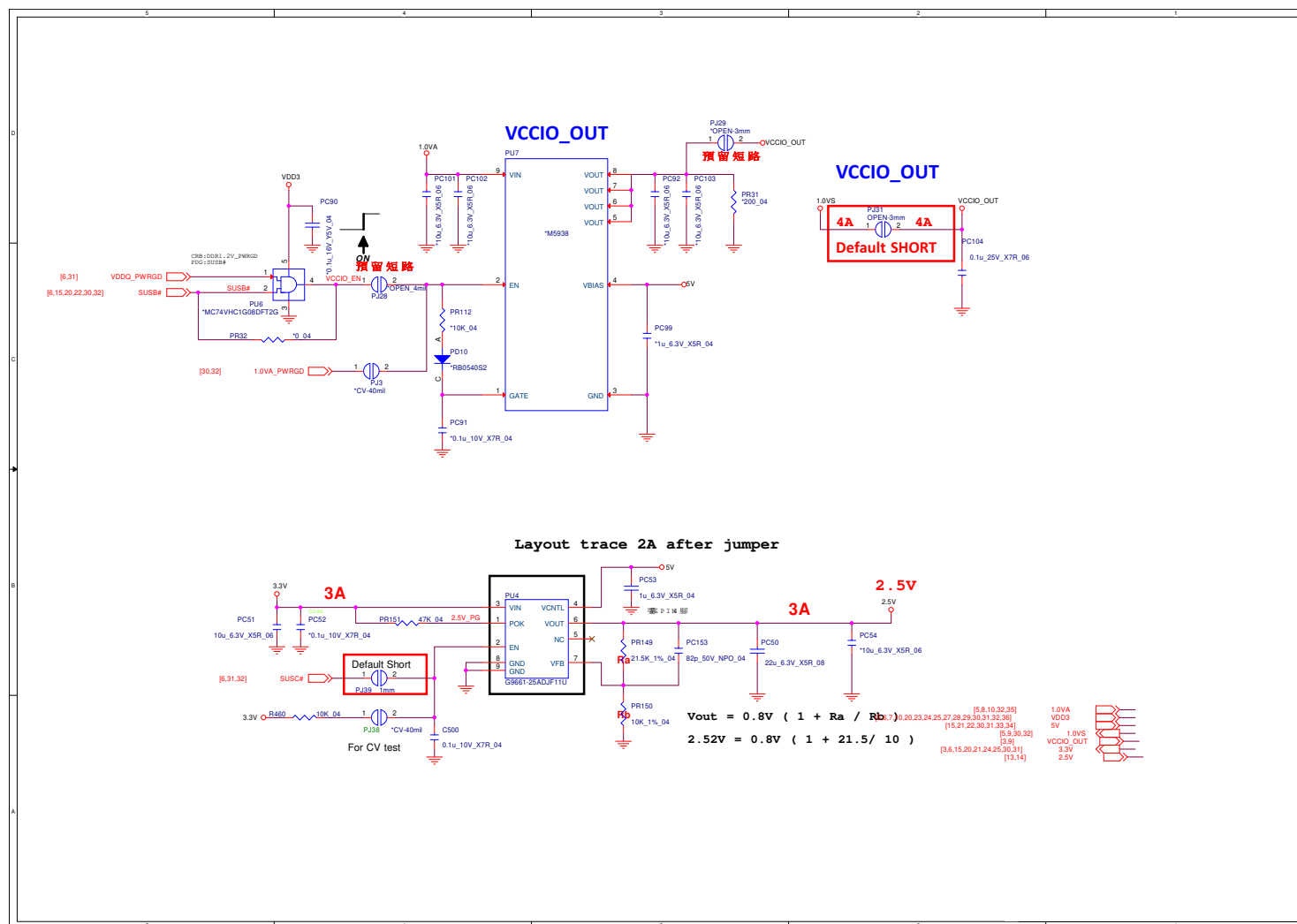


VCCIN, VCCGT, VCIO, 2.5V

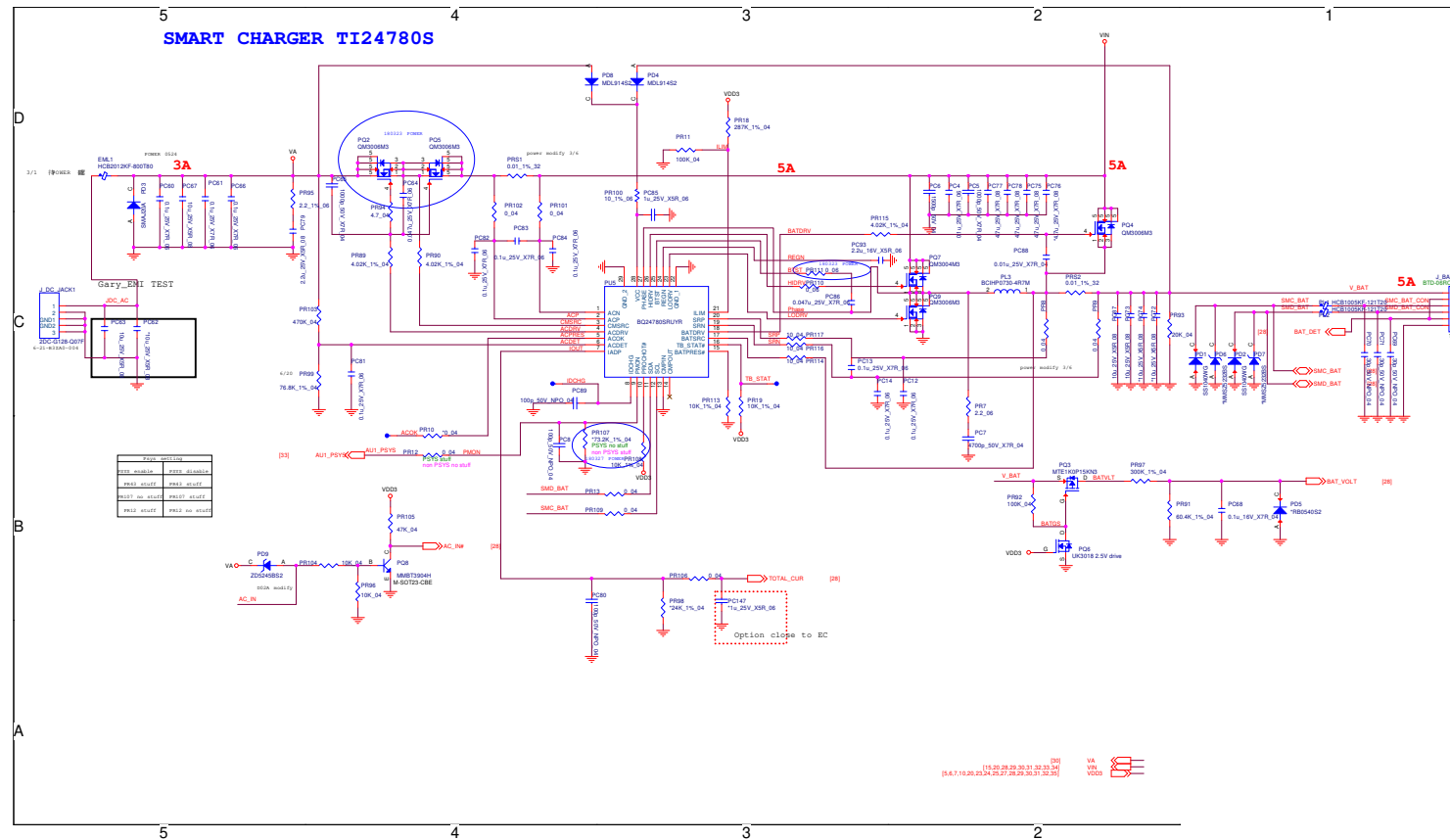


Sheet 34 of 40
VCCIN, VCCGT,
VCIO, 2.5V

Sheet 35 of 40
VCCIO, 2.5V

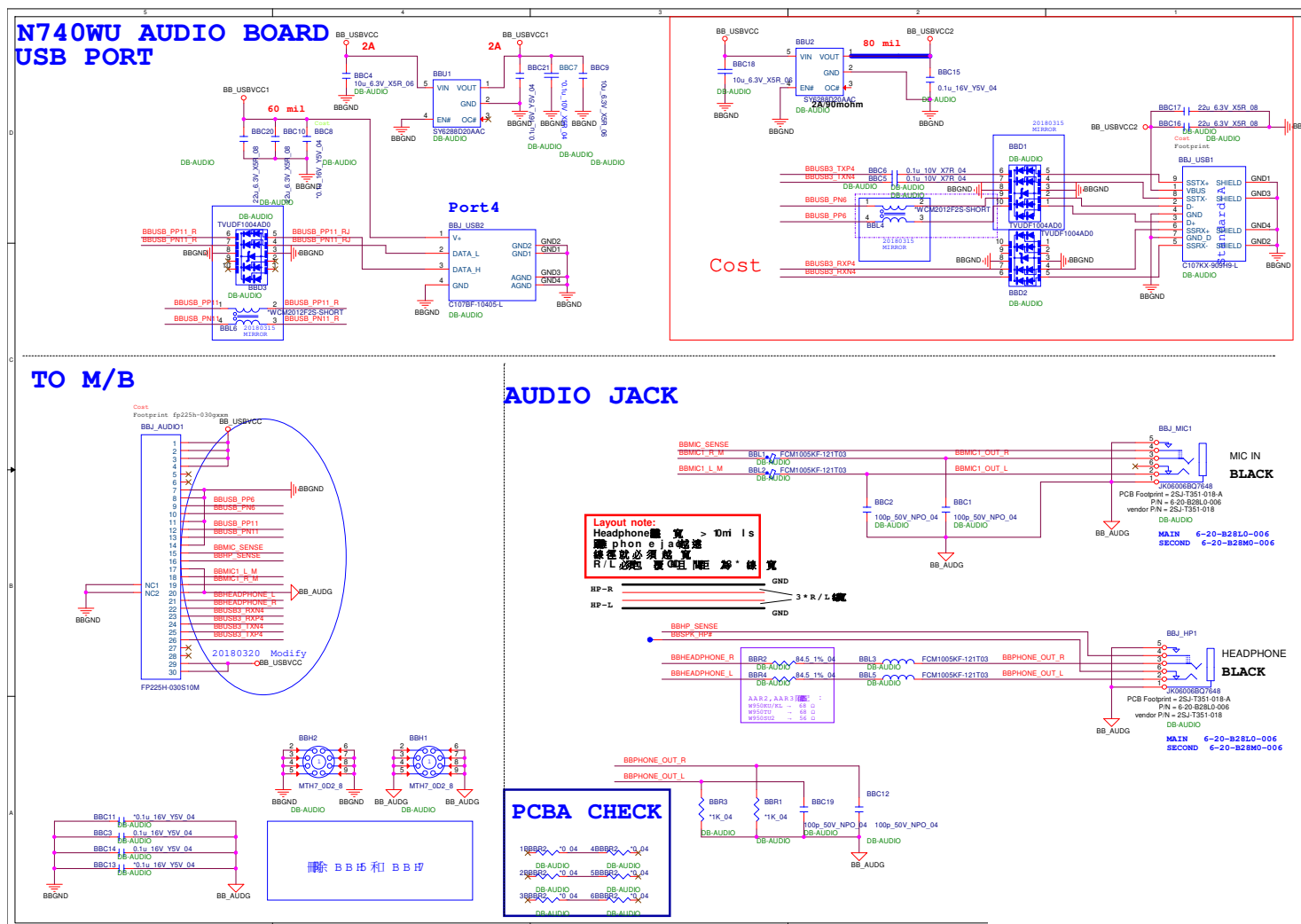


Charger, DC-In

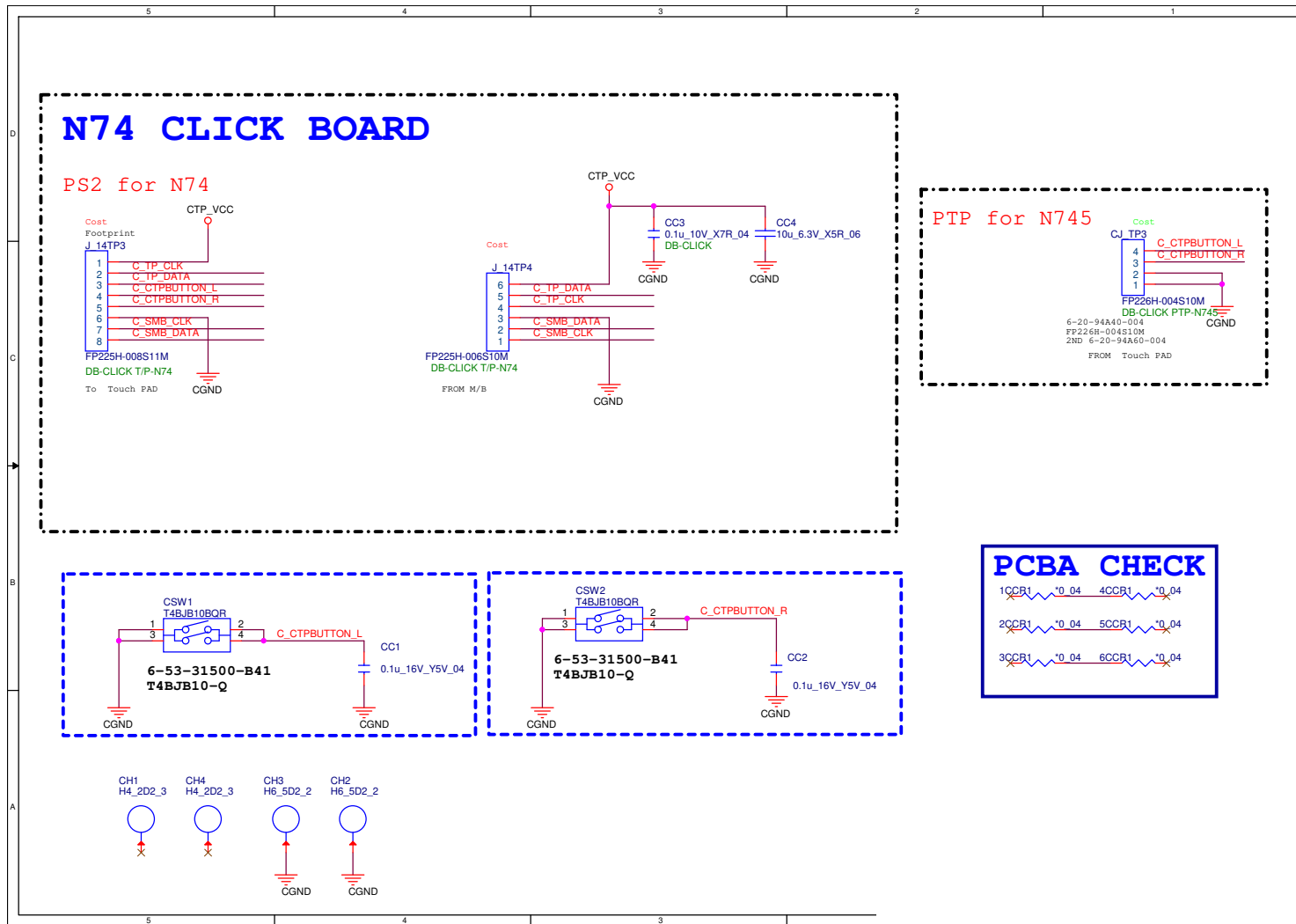
Sheet 36 of 40
Charger, DC-In

B. Schematic Diagrams

Sheet 37 of 40
Audio Board



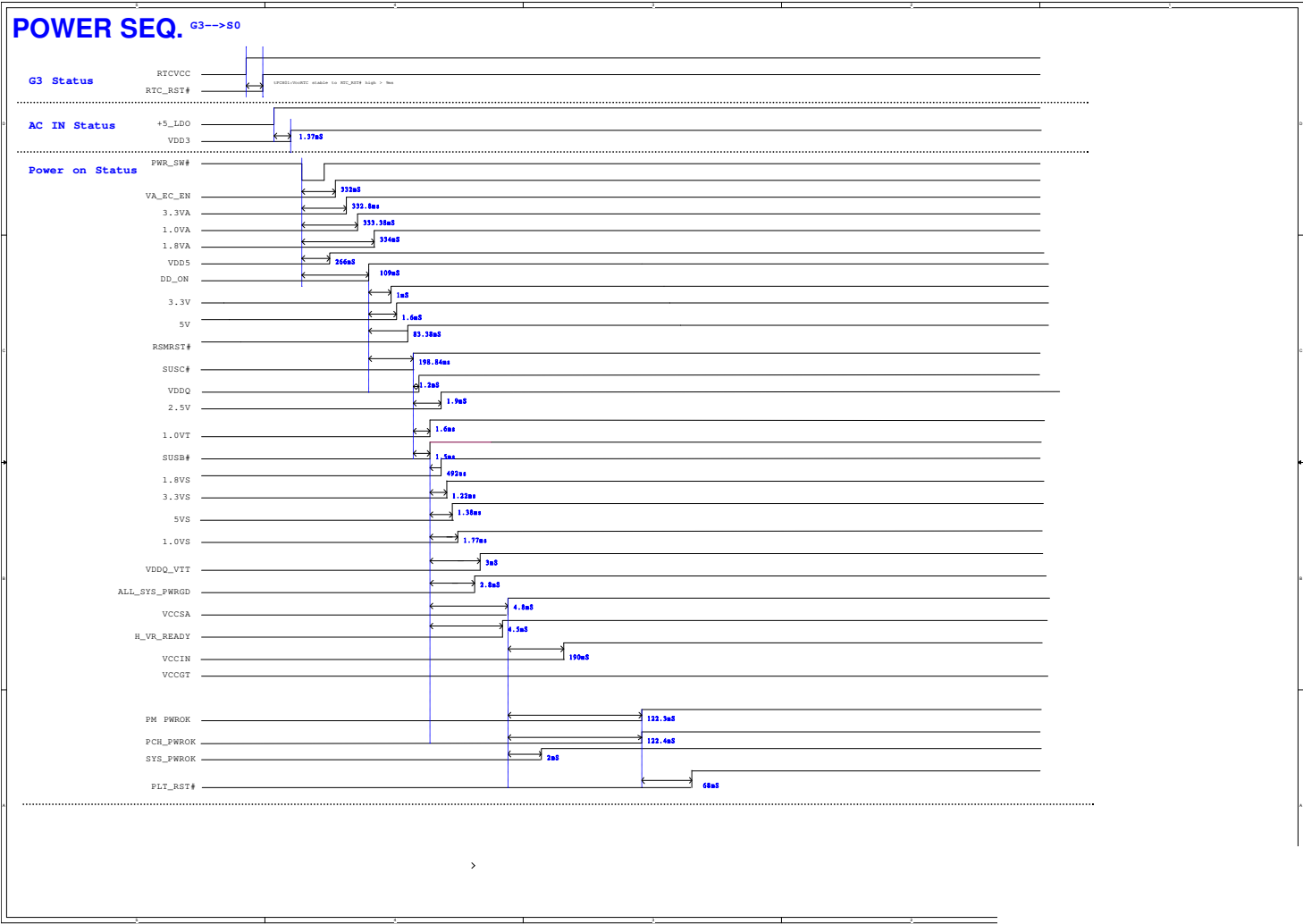
Click Board

Sheet 38 of 40
Click Board

Schematic Diagrams

Power Seq

Sheet 39 of 40
Power Seq



Option BOM

| W/ USB CHARGER 3.0 TYPEA | | W/O USB CHARGER 3.0 TYPEA | |
|-----------------------------------|-------------------|------------------------------------|------------------------|
| U14 | SLG55593VTR | R69 | 10K_04 |
| C332 | 0.1u_16V_Y5V_04 | R489 | 0_04 |
| R195 | 100K_04 | R490 | 0_04 |
| R265 | 10K_04 | R194 | 0_04 |
| R245 | 0_04 | | |
| W/ USB CHARGER 3.1 TYPEA (預 留) | | W/O USB CHARGER 3.1 TYPEA (預 留) | |
| U14 | SLG55593VTR | R69 | 10K_04 |
| C332 | 0.1u_16V_Y5V_04 | R489 | 0_04 |
| R195 | 100K_04 | R490 | 0_04 |
| R265 | 10K_04 | R242 | 0_04 |
| R243 | 0_04 | | |
| eDP | | LVDS | |
| C417 | 0.1u_10V_X7R_04 | C1 | 0.1u_10V_X7R_04 |
| C418 | 0.1u_10V_X7R_04 | C10 | 2.2u_6.3V_X5R_04 |
| C419 | 0.1u_10V_X7R_04 | C16 | 0.1u_10V_X7R_04 |
| C420 | 0.1u_10V_X7R_04 | C17 | 0.1u_10V_X7R_04 |
| C421 | 0.1u_10V_X7R_04 | C18 | 0.1u_10V_X7R_04 |
| C422 | 0.1u_10V_X7R_04 | C2 | 0.1u_10V_X7R_04 |
| C433 | 0.1u_10V_X7R_04 | C3 | 0.1u_10V_X7R_04 |
| C434 | 0.1u_10V_X7R_04 | C4 | 0.1u_10V_X7R_04 |
| C435 | 0.1u_10V_X7R_04 | C7 | 0.1u_10V_X7R_04 |
| C436 | 0.1u_10V_X7R_04 | C8 | 0.1u_10V_X7R_04 |
| R10 | 0_04 | C9 | 0.1u_10V_X7R_04 |
| R21 | 0_04 | C352 | 0.1u_10V_X7R_04 |
| R336 | 0_04 | C353 | 2.2u_6.3V_X5R_06 |
| R34 | 100K_04 | C361 | 2.2u_6.3V_X5R_04 |
| R35 | 1K_04 | C362 | 0.1u_10V_X7R_04 |
| R384 | 10K_04 | C363 | 0.1u_10V_X7R_04 |
| D26 | BAV99 RECTIFIER | C364 | 0.1u_10V_X7R_04 |
| J_LCD1 | lvdfh-03008-tp00+ | R1 | 10K_04 |
| | | R11 | 0_04 |
| | | R12 | 0_06 |
| | | R19 | 2.2K_04 |
| | | R20 | 2.2K_04 |
| | | R22 | 10K_04 |
| | | R23 | 4.7K_04 |
| | | R26 | 4.7K_04 |
| | | R27 | 100K_04 |
| | | R28 | 0_04 |
| | | R3 | 12K_1%_04 |
| | | R306 | 0_06 |
| | | R307 | 0_06 |
| | | R343 | 0_04 |
| | | R36 | 0_04 |
| | | R37 | 0_04 |
| | | R383 | 10K_04 |
| | | R39 | 0_04 |
| | | R40 | 0_04 |
| | | R41 | 0_04 |
| | | R42 | 0_04 |
| | | U2 | RTD2136N-CG |
| | | J_LCD2 | LVDFH-04008-TP00+ |
| USB3.1 | | | |
| C236 | 0.1u_16V_Y5V_04 | R182 | 4.7K_04 |
| C249 | 20p_50V_NPO_04 | R196 | 1K_04 |
| C250 | 22u_6.3V_X5R_08 | R197 | 4.7K_04 |
| C251 | 22u_6.3V_X5R_08 | R198 | 4.7K_04 |
| C260 | 0.1u_10V_X7R_04 | R199 | 4.7K_04 |
| C270 | 0.1u_16V_Y5V_04 | R200 | 4.7K_04 |
| C271 | 0.1u_16V_Y5V_04 | R215 | 4.7K_04 |
| C272 | 0.1u_16V_Y5V_04 | R222 | 10K_04 |
| C273 | 0.22u_10V_X5R_04 | R223 | 10_06 |
| C274 | 0.22u_10V_X5R_04 | R224 | 10K_04 |
| C275 | 0.22u_10V_X5R_04 | R235 | 0_04 |
| C276 | 1000p_50V_X7R_04 | R236 | 100K_1%_04 |
| C277 | 4.7u_25V_X5R_08 | R237 | 76.8K_1%_04 |
| C278 | 4.7u_25V_X5R_08 | R238 | 47K_1%_04 |
| C296 | 10u_6.3V_X5R_06 | R248 | 12.1K_1%_04 |
| C297 | 0.1u_16V_Y5V_04 | R250 | 0_04 |
| C298 | 0.1u_16V_Y5V_04 | R251 | 40.2K_1%_04 |
| C299 | 10u_6.3V_X5R_06 | R260 | 0_04 |
| C300 | 4.7u_6.3V_X5R_06 | R261 | 0_04 |
| C301 | 0.22u_10V_X5R_04 | R272 | 4.7K_04 |
| C302 | 0.22u_10V_X5R_04 | R487 | 0_04 |
| C303 | 0.22u_10V_X5R_04 | R488 | 0_04 |
| C304 | 0.22u_10V_X5R_04 | R506 | 0_04 |
| C305 | 0.22u_10V_X5R_04 | R507 | 0_04 |
| C306 | 22p_50V_NPO_04 | C553 | 10u_6.3V_X5R_06 |
| C307 | 15p_50V_NPO_04 | C554 | 0.1u_16V_Y5V_04 |
| C308 | 1u_6.3V_X5R_04 | C555 | 10u_6.3V_X5R_06 |
| C324 | 0.1u_16V_Y5V_04 | C556 | 4.7u_6.3V_X5R_06 |
| C325 | 0.1u_16V_Y5V_04 | C557 | 10u_6.3V_X5R_06 |
| C326 | 0.1u_16V_Y5V_04 | C558 | 0.1u_16V_Y5V_04 |
| C327 | 12p_50V_NPO_04 | C559 | 0.1u_16V_Y5V_04 |
| C328 | 0.22u_10V_X5R_04 | C560 | 0.1u_16V_Y5V_04 |
| C329 | 10u_6.3V_X5R_06 | C561 | 0.1u_16V_Y5V_04 |
| C331 | 0.1u_16V_Y5V_04 | U11 | MP2315GJ-Z |
| C332 | 0.1u_16V_Y5V_04 | U12 | ASM1142 |
| D7 | RB751V-40(11sion) | U13 | EMS209 |
| L22 | BC1HP0420TB-2R2M | U6 | GD25D10BTIGR |
| | | X2 | FSX3M 20.0000000M16FAO |
| USB3.1 TYPEA (預 留) | | USB3.0 TYPEA | |
| C292 | 0.22u_10V_X5R_04 | C290 | 0.22u_10V_X5R_04 |
| C293 | 0.22u_10V_X5R_04 | C291 | 0.22u_10V_X5R_04 |
| PQ1 | 28K3018S3 | R268 | 0_04 |
| PR84 | 10K_04 | R269 | 0_04 |
| PR85 | 10K_04 | R493 | 0_04 |
| PR86 | 100K_04 | R494 | 0_04 |
| R262 | 0_04 | | |
| R263 | 0_04 | | |
| R485 | 0_04 | | |
| R486 | 0_04 | | |
| W/ TPM | | W/O TPM | |
| U32 | SLB9665TT_5.51 | R396 | 100K_04 |
| C456 | 0.1u_16V_Y5V_04 | | |
| C460 | 0.1u_16V_Y5V_04 | | |
| C471 | 0.1u_16V_Y5V_04 | | |
| C472 | 0.1u_16V_Y5V_04 | | |
| R401 | 4.7K_04 | | |
| R392 | 10K_04 | | |
| R433 | 22_04 | | |
| W/ 3G LTE(14"/15") | | W/ 3G LTE(17") | |
| C12 | 22u_6.3V_X5R_06 | C12 | 22u_6.3V_X5R_06 |
| C13 | 22u_6.3V_X5R_06 | C13 | 22u_6.3V_X5R_06 |
| C14 | 0.1u_16V_Y5V_04 | C14 | 0.1u_16V_Y5V_04 |
| C24 | 22u_6.3V_X5R_06 | C24 | 22u_6.3V_X5R_06 |
| C25 | 22u_6.3V_X5R_06 | C25 | 22u_6.3V_X5R_06 |
| C26 | 0.1u_16V_Y5V_04 | C26 | 0.1u_16V_Y5V_04 |
| C379 | 22u_6.3V_X5R_06 | C379 | 22u_6.3V_X5R_06 |
| C380 | 0.1u_16V_Y5V_04 | C380 | 0.1u_16V_Y5V_04 |
| C395 | 1u_6.3V_X5R_04 | C395 | 1u_6.3V_X5R_04 |
| C396 | 0.1u_16V_Y5V_04 | C396 | 0.1u_16V_Y5V_04 |
| C406 | 0.1u_10V_X7R_04 | C406 | 0.1u_10V_X7R_04 |
| C407 | 0.1u_10V_X7R_04 | C407 | 0.1u_10V_X7R_04 |
| C412 | 470p_50V_X7R_04 | C412 | 470p_50V_X7R_04 |
| C413 | 6.3V_6.3*5.7MM | C413 | 6.3V_6.3*5.7MM |
| C6 | 22u_6.3V_X5R_06 | C6 | 22u_6.3V_X5R_06 |
| J_3G1 | NASB0-S6701-TS50 | J_3G1 | NASB0-S6701-TS50 |
| Q10 | MTS3572G6 | Q10 | MTS3572G6 |
| Q9 | 28K3018S3 | Q9 | 28K3018S3 |
| R17 | 10K_04 | R17 | 10K_04 |
| R32 | 330K_04 | R32 | 330K_04 |
| R329 | 10_06 | R329 | 10_06 |
| R33 | 100K_04 | R33 | 100K_04 |
| W/ 3G LTE(14"/17") | | W/ 3G LTE(17") | |
| C11 | 0.1u_16V_Y5V_04 | J_SIM2 | FP225H-006S10M |
| C20 | 0.01u_16V_X7R_04 | | |
| J_SIM1 | FLY-160429-02 | | |
| USB3.1_2142 (otpion) | | USB3.1_1142 (default) | |
| C340 | 0.1u_16V_Y5V_04 | L56 | HCB1608KF-121T30 |
| C341 | 4.7u_6.3V_X5R_06 | R247 | 0_04 |
| C342 | 1u_6.3V_X5R_04 | | |
| L57 | HCB1608KF-121T30 | | |
| R246 | 0_04 | | |
| R273 | 47K_1%_04 | | |
| R274 | 44.2K_1%_04 | | |
| R275 | 10K_1%_04 | | |
| U16 | NCT3705U-A | | |
| PWR U4+2 | | PWR U2+2 | |
| C444 | 12p_50V_NPO_04 | C451 | 12p_50V_NPO_04 |
| C450 | 12p_50V_NPO_04 | C452 | 12p_50V_NPO_04 |
| R103 | 0.2m_1%_08 | R370 | 1M_1%_04 |
| R364 | 1M_1%_04 | R86 | 0_04 |
| R88 | 0.2m_1%_08 | R87 | 0.2m_1%_08 |
| X4 | FSX3M_24MHZ | X3 | FSX3M_24MHZ |
| PR16 | 51K_1%_04 | PR16 | 270K_1%_04 |
| PR22 | 33.2K_1%_04 | PR22 | 29.4K_1%_04 |
| PR46 | 31.6K_1%_04 | PR46 | 3.9K_1%_0402 |
| PR47 | 46.4K_1%_04 | PR47 | 49.9K_1%_04 |
| PR48 | 34K_1%_04 | PR48 | 34K_1%_04 |
| PC19 | 33p_50V_NPO_04 | PC19 | 68p_50V_NPO_04 |
| PR17 | 10.5K_1%_04 | PR17 | 9.1K_1%_04 |
| C142 | 1u_6.3V_X5R_04 | C140 | 22u_6.3V_X5R_06 |
| C126 | 22u_6.3V_X5R_06 | C77 | 1u_6.3V_X5R_04 |
| C120 | 10u_6.3V_X5R_06 | C118 | 10u_6.3V_X5R_06 |
| C123 | 10u_6.3V_X5R_06 | | |
| C124 | 10u_6.3V_X5R_06 | | |

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Option BOM

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.