

SERVICE MANUAL

W550SU2 / W555SUY

notebook



Notebook Computer
W550SU2 / W555SUY
Service Manual

Notice

The company reserves the right to revise this publication or to change its contents without notice. Information contained herein is for reference only and does not constitute a commitment on the part of the manufacturer or any subsequent vendor. They assume no responsibility or liability for any errors or inaccuracies that may appear in this publication nor are they in anyway responsible for any loss or damage resulting from the use (or misuse) of this publication.

This publication and any accompanying software may not, in whole or in part, be reproduced, translated, transmitted or reduced to any machine readable form without prior consent from the vendor, manufacturer or creators of this publication, except for copies kept by the user for backup purposes.

Brand and product names mentioned in this publication may or may not be copyrights and/or registered trademarks of their respective companies. They are mentioned for identification purposes only and are not intended as an endorsement of that product or its manufacturer.

Version 1.0
November 2013

Trademarks

Intel, Pentium, Celeron and Intel Core are trademarks of Intel Corporation.

Windows® is a registered trademark of Microsoft Corporation.

Other brand and product names are trademarks and /or registered trademarks of their respective companies.

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 **W550SU2** / **W555SUY** 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, 2.10A (**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.

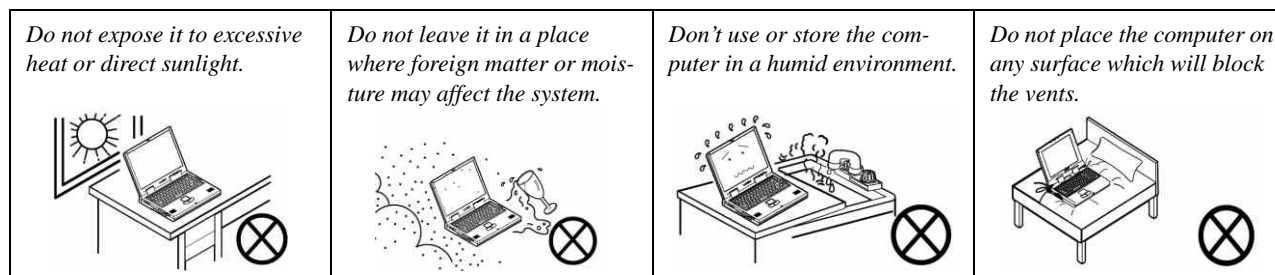
Instructions for Care and Operation

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

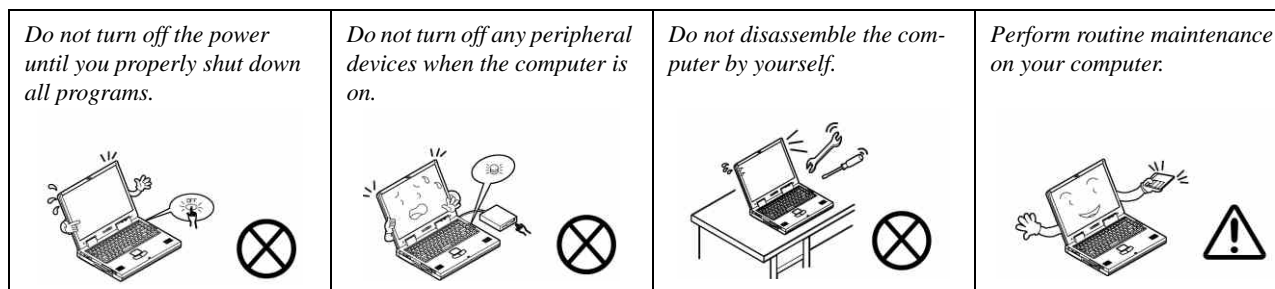
1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.



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.

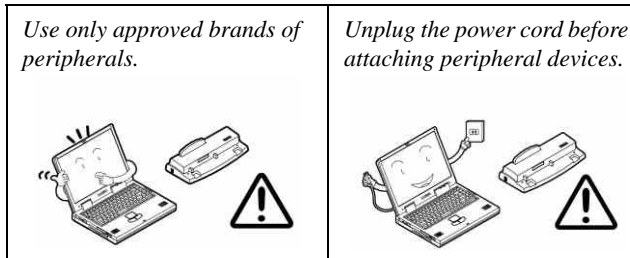


3. **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.



Preface

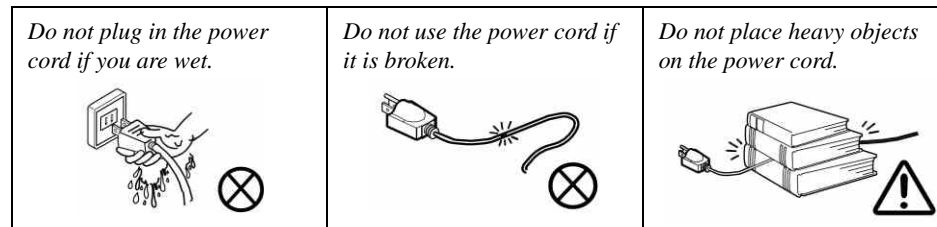
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



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.

Related Documents

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

User's Manual on CD/DVD

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

System Startup

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



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



Shut Down

Note that you should always shut your computer down by choosing the **Shut down** command in **Windows** (see below). This will help prevent hard disk or system problems.

Click **Settings** in the **Charms Bar** (use the **Windows Logo Key** + **C** key combination to access the Charms Bar) and choose **Shut down** from the **Power** menu.

Or

Choose **Shut down or sign out > Shut down** from the context menu (use the **Windows Logo Key** + **X** key combination to access the context menu).

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 Hard Disk Drive	2-6
Removing the Optical (CD/DVD) Device	2-9
Removing the System Memory (RAM)	2-11
Removing the Heatsink	2-13
Removing the Wireless LAN Module and Keyboard	2-14
Wireless LAN, Combo, 3G & LTE Module Cables	2-17
Removing the 3.75G Module	2-18
Removing the Front Cover	2-19

Part ListsA-1

Part List Illustration Location	A-2
Top (W550SU2)	A-3

Top (W555SUY)	A-4
Bottom (W550SU2)	A-5
Bottom (W555SUY)	A-6
DVD DUAL	A-7
Dummy ODD	A-8
LCD (W550SU2)	A-9
LCD (W555SUY)	A-10

Schematic Diagrams.....B-1

System Block Diagram	B-2
Processor 1/7	B-3
Processor 2/7	B-4
Processor 3/7	B-5
Processor 4/7	B-6
Processor 5/7	B-7
Processor 6/7	B-8
Processor 7/7	B-9
Power 1	B-10
Power 2	B-11
Power VSS	B-12
RSVD	B-13
DDR3 SO-DIMM A	B-14
DDR3 SO-DIMM B	B-15
Panel, Inverter	B-16
VGA PS8613	B-17
LVDS PS8625	B-18
USB Hub AU6259-JGF	B-19
Card Reader & LAN RTL8411B	B-20
HDMI, RJ45, Fan	B-21
WLAN, 3G, MSATA	B-22
Audio Codec ALC269	B-23

Preface

USB 3.0, G-Sensor, TPM	B-24
HDD, CCD, TPM, Power Con	B-25
CCD, MIC, LID, I/O Connector	B-26
HDD, ODD, LED	B-27
System Power	B-28
VDD3, VDD5	B-29
ALC269Q, VT1802S	B-30
1.05V Series	B-31
VCore	B-32
Charger, DC In	B-33
Audio Board	B-34
Audio Board	B-35
LID Switch Board	B-36
Power Switch Board	B-37
Power Switch Board	B-38
Touch Panel Board	B-39
Power On Sequence	B-40

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 **W550SU2 / W555SUY** 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. *Windows 8*, 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 **W550SU2 / W555SUY** 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™ i5 Processor

i5-4200U (1.60GHz)

3MB L3 Cache, 22nm, DDR3L-1600MHz, TDP 15W

Intel® Core™ i3 Processor

i3-4005U (1.70GHz)

3MB L3 Cache, 22nm, DDR3L-1600MHz, TDP 15W

Intel® Pentium® Processor

3556U (1.70GHz)

2MB L3 Cache, 22nm, DDR3L-1600MHz, TDP 15W

Intel® Celeron® Processor

2955U (1.40GHz)

2MB L3 Cache, 22nm, DDR3L-1600MHz, TDP 15W

BIOS

48Mb SPI Flash ROM

AMI BIOS

Memory

Two 204 Pin SO-DIMM Sockets Supporting **DDR3L 1600MHz** Memory

Memory Expandable up to 16GB

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

Storage

(**Factory Option**) One 12.7mm(h) Optical Device Type Drive (Super Multi Drive/Blu-Ray Combo Drive/Blu-Ray Writer Drive)

(**Factory Option**) Dummy ODD

One Changeable 2.5" 9.5mm/7mm (h) SATA HDD

(**Factory Option**) One mSATA Solid State Drive (SSD)*

*This function is only supported by the i5-4200U processor.

LCD

15.6" (39.62cm) HD/ FHD

Audio

High Definition Audio Compliant Interface

2 * Built-In Speakers

Built-In Microphone

Security

Security (Kensington® Type) Lock Slot

BIOS Password

(**Factory Option**) TPM 1.2

Video Adapter

Intel GPU (CPU integrated)

Intel HD Graphics 4400 (Core i5/i3 CPU)

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

Microsoft DirectX®11 Compatible

Or

Intel HD Graphics (Pentium/Celeron CPU)

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

Microsoft DirectX®11 Compatible

Keyboard

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

Pointing Device

Built-in Touchpad

Mini Card Slots

Slot 1 for **WLAN** Module or **WLAN and Bluetooth** Combo Module

(**Factory Option**) Slot 2 for **3G** Module or mSATA **SSD**

Interface

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

Card Reader

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

Communication

Built-In Gigabit Ethernet LAN
1.0M HD PC Camera Module
(Factory Option) 3G Mini-Card Module

WLAN/ Bluetooth Half Mini-Card Modules:

(Factory Option) Intel® Wireless-N 7260 Wireless LAN
(802.11b/g/n) + Bluetooth 4.0
(Factory Option) Third-Party Wireless LAN (802.11b/g/n)
(Factory Option) Third-Party Wireless LAN (802.11b/g/n)
+ Bluetooth 4.0

Environmental Spec

Temperature

Operating: 5°C - 35°C
Non-Operating: -20°C - 60°C

Relative Humidity

Operating: 20% - 80%
Non-Operating: 10% - 90%

Power

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

Full Range AC/DC Adapter
AC Input: 100 - 240V, 50 - 60Hz
DC Output: 19V, 2.10A (40W)

Dimensions & Weight

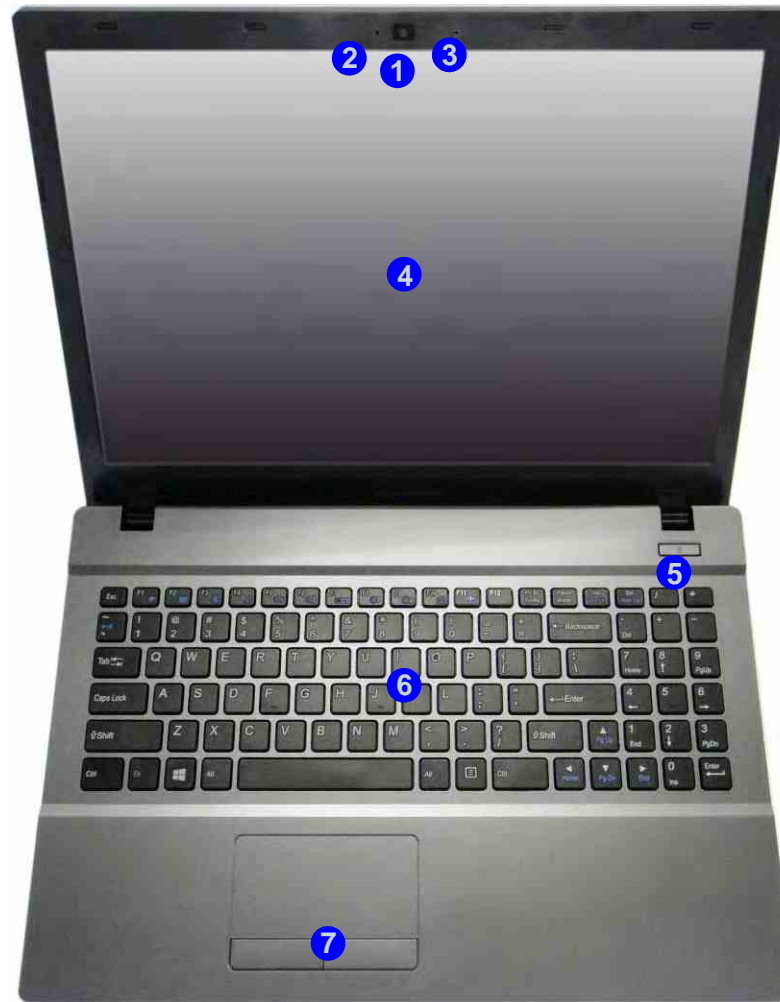
374mm (w) * 252mm (d) * 14 - 25.4mm (h) (Height Exclud-
ing Battery Area)
2.2kg (with 48.84WH Battery and ODD)

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 Power Indicator
2. Multi-in-1 Card Reader

RIGHT SIDE VIEW



Figure 3
Right Side View

1. Microphone-In Jack
2. Headphone-Out Jack
3. USB 2.0 Ports
4. Optical Device Drive 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. RJ-45 LAN Jack
3. External Monitor Port
4. Vent
5. HDMI-Out Port
6. USB 3.0 Ports

LEFT SIDE VIEW



Figure 5
Rear View

1. Battery

REAR VIEW



External Locator - Bottom View

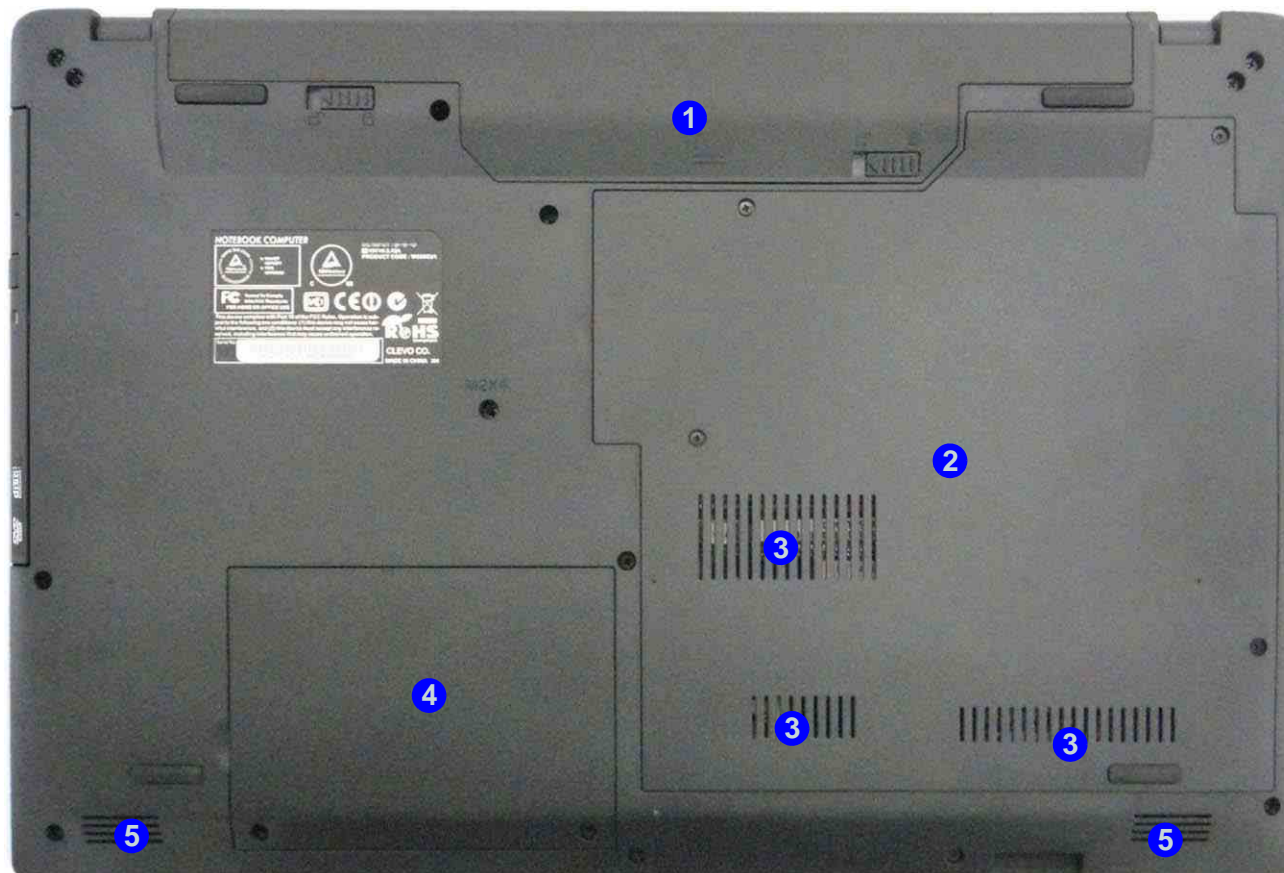


Figure 6
Bottom View

1. Battery
2. Component Bay Cover
3. Vent
4. Hard Disk Bay Cover
5. Speakers



Overheating

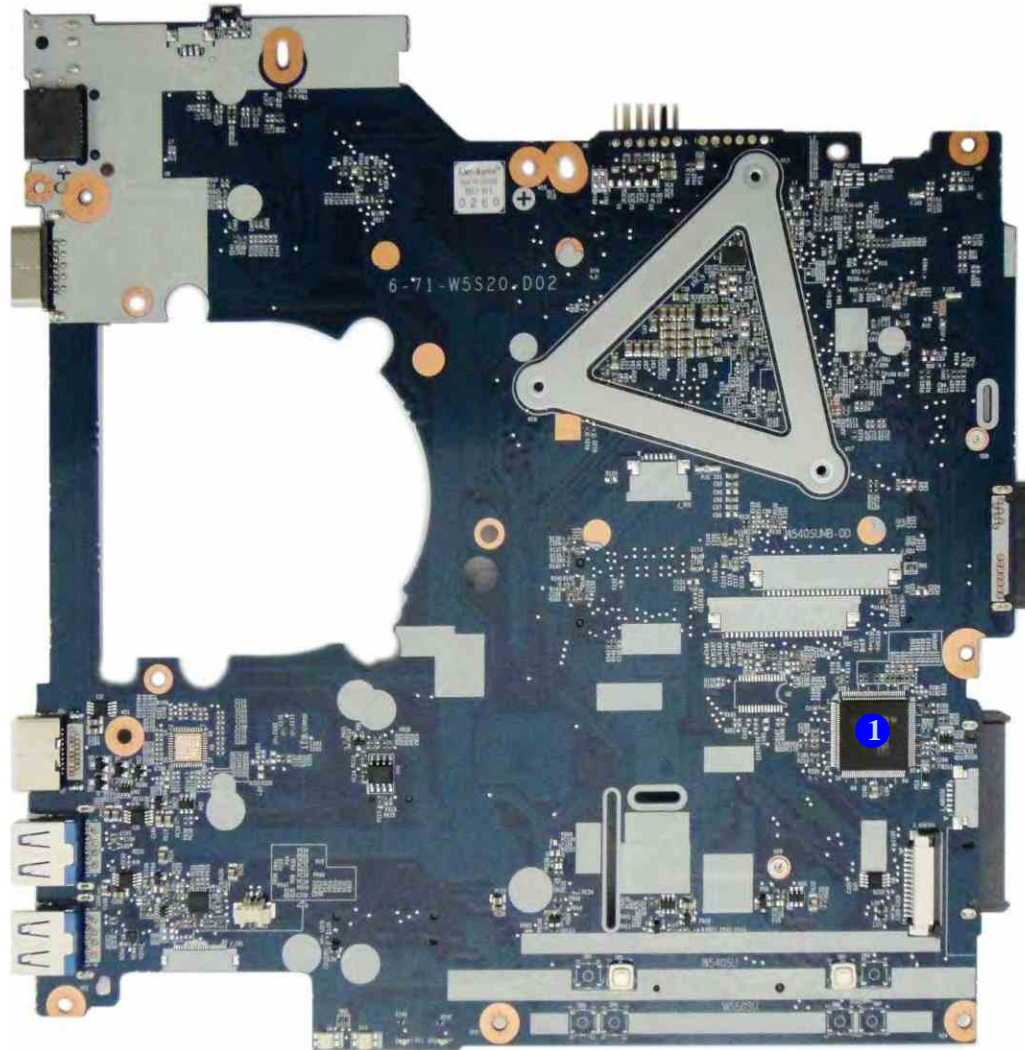
To prevent your computer from overheating, make sure nothing blocks any vent while the computer is in use.

Introduction

Figure 7
**Mainboard Top
Key Parts**

1. KBC-ITE IT8587

Mainboard Overview - Top (Key Parts)



Mainboard Overview - Bottom (Key Parts)

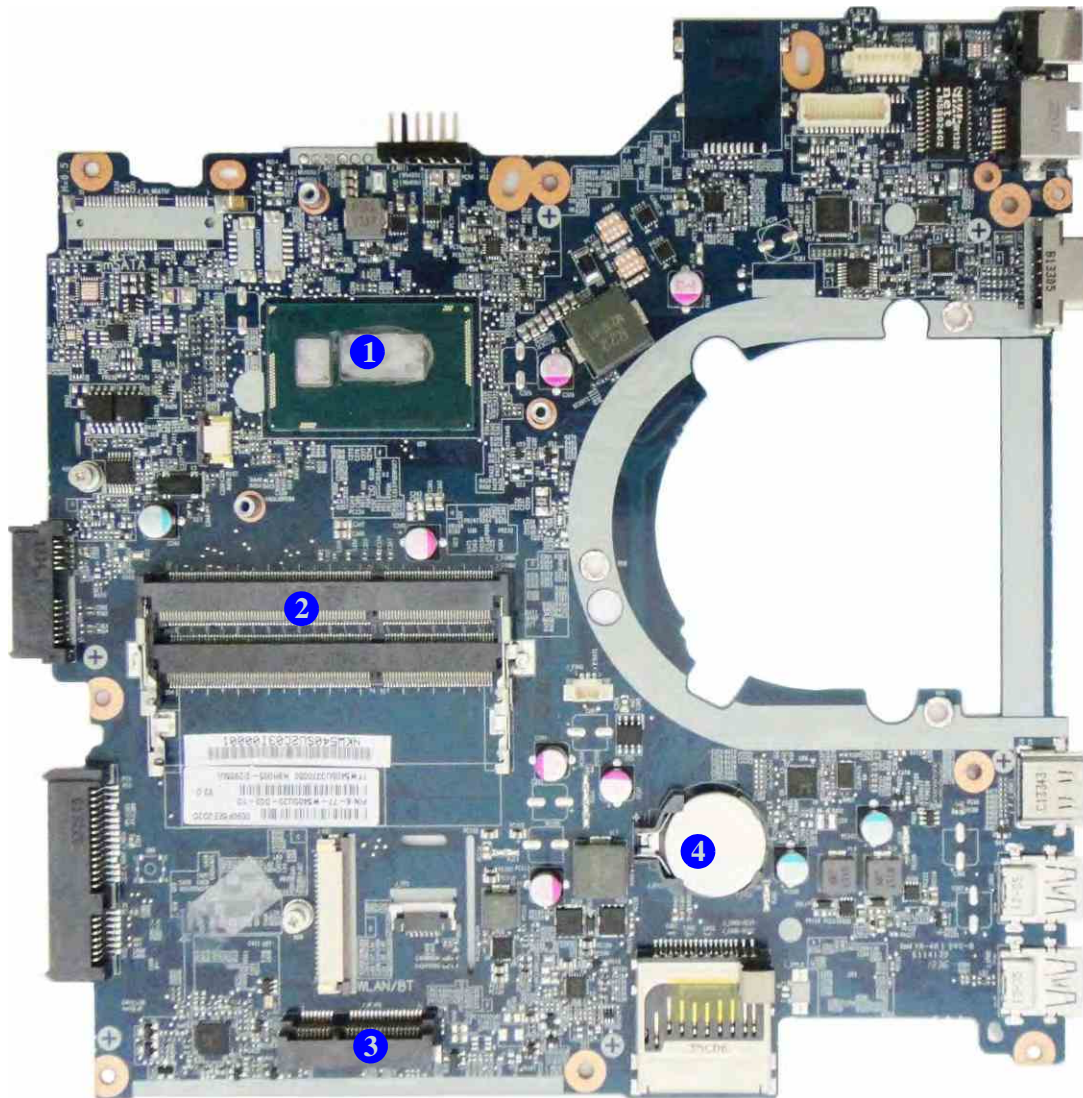


Figure 8
**Mainboard Bottom
Key Parts**

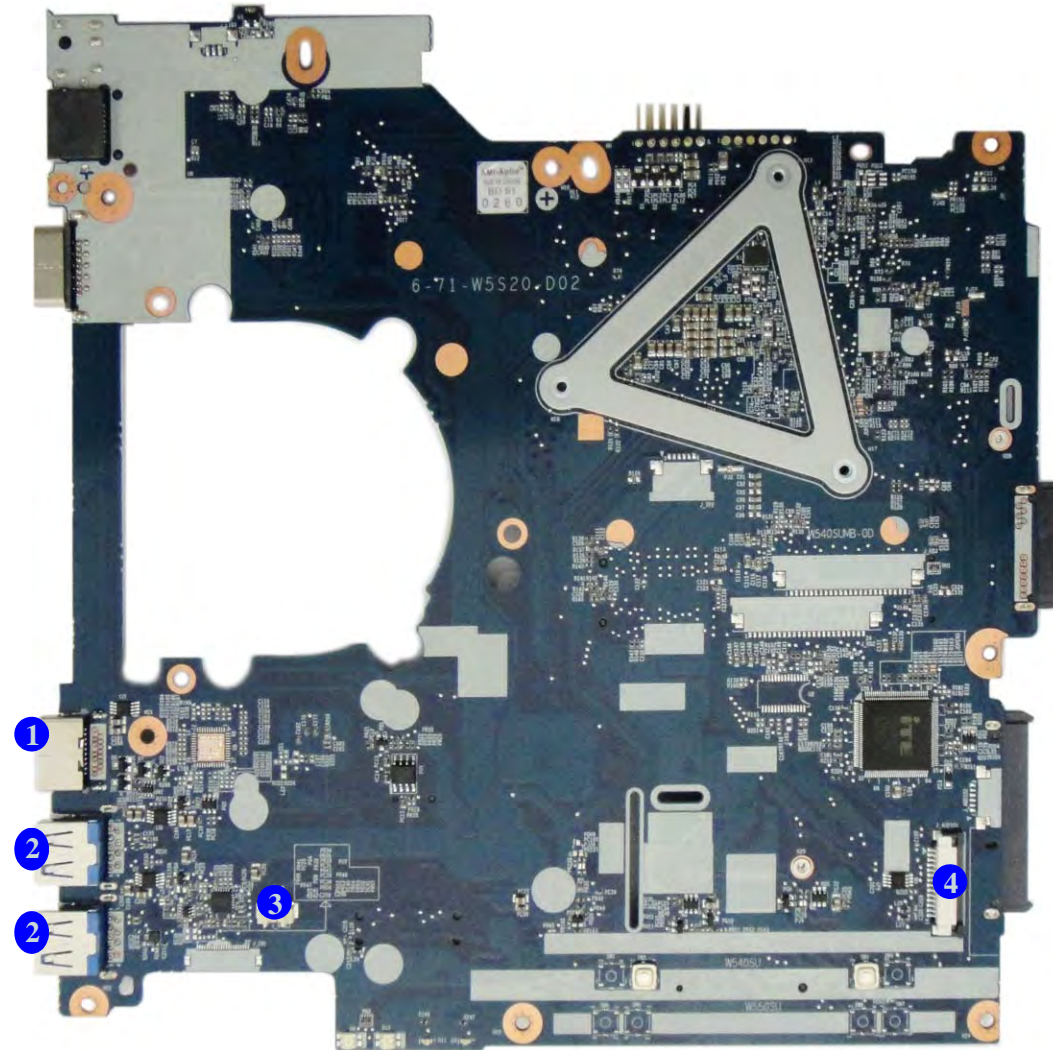
1. Processor
2. Memory Slots
DDR3L SO-DIMM
3. Mini-Card
Connector
4. CMOS Battery

Introduction

Figure 9
**Mainboard Top
Connectors**

1. HDMI-Out Port
2. USB Port 3.0
3. Speaker Cable Connector
4. Audio Board Cable Connector

Mainboard Overview - Top (Connectors)



Mainboard Overview - Bottom (Connectors)

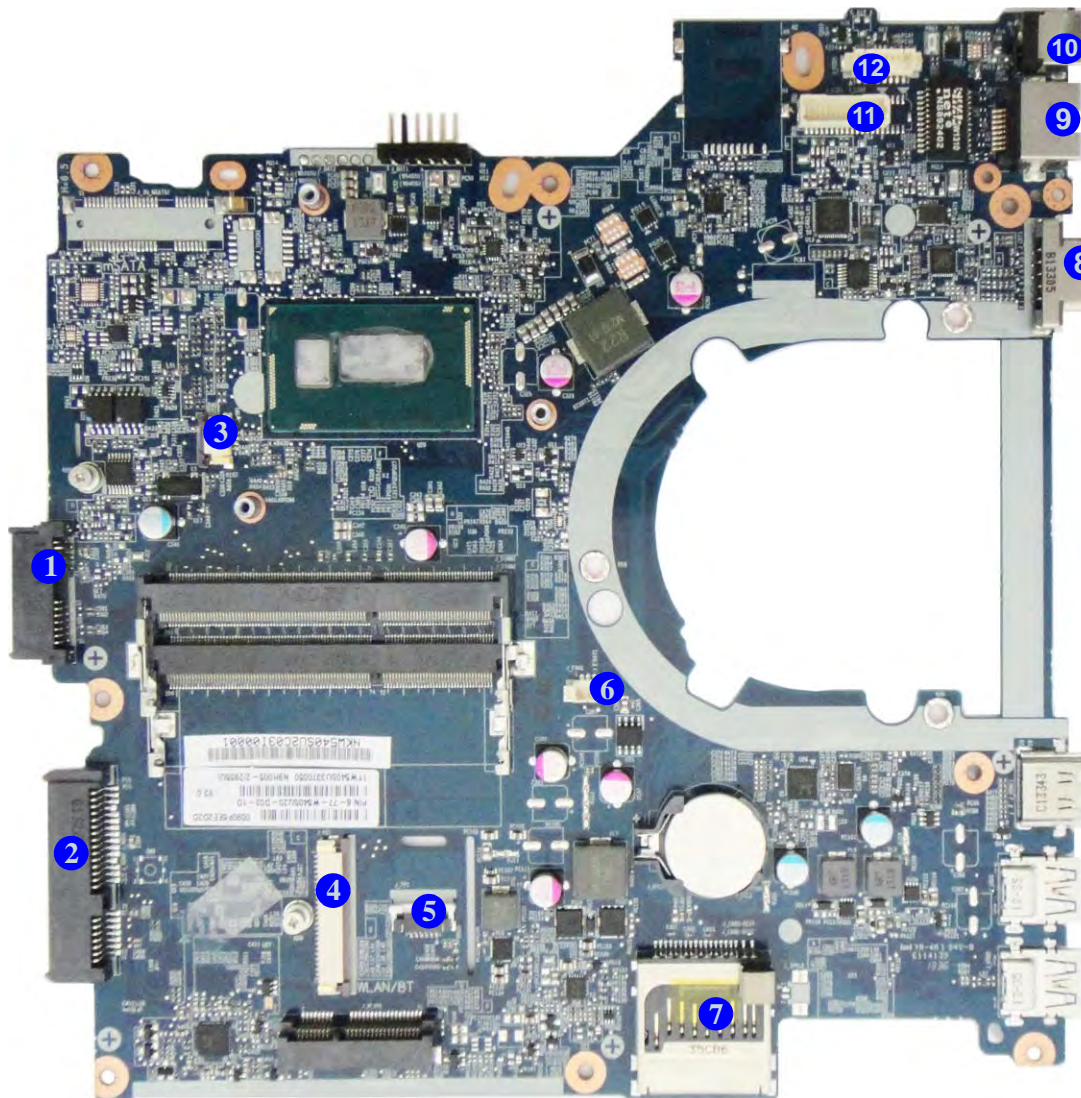


Figure 10
**Mainboard Bottom
Connectors**

1. ODD Connector
2. HDD Connector
3. Power Button
Cable Connector
4. Keyboard Cable
Connector
5. TouchPad Cable
Connector
6. Fan Cable
Connector
7. Multi-in-1 Card
Reader
8. External Monitor
Port
9. RJ-45 LAN Jack
10. DC-In Jack
11. LCD Cable
Connector
12. CCD Cable
Connector


Chapter 2: Disassembly

Overview

This chapter provides step-by-step instructions for disassembling the *W550SU2 / W555SUY* series notebook's parts and subsystems. When it comes to reassembly, reverse the procedures (unless otherwise indicated).

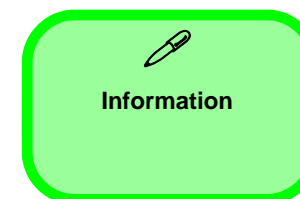
We suggest you completely review any procedure before you take the computer apart.

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

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

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

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



Disassembly

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

Maintenance Tools

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

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

Connections

Connections within the computer are one of four types:

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

Maintenance Precautions

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

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

Cleaning

Do not apply cleaner directly to the computer, use a soft clean cloth.

Do not use volatile (petroleum distillates) or abrasive cleaners on any part of the computer.



Power Safety Warning

Before you undertake any upgrade procedures, make sure that you have turned off the power, and disconnected all peripherals and cables (including telephone lines 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 HDD:

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

To remove the Optical Device:

1. Remove the battery *page 2 - 5*
2. Remove the Optical device *page 2 - 9*

To remove the System Memory:

1. Remove the battery *page 2 - 5*
2. Remove the system memory *page 2 - 11*

To remove the CPU Fan:

1. Remove the battery *page 2 - 5*
2. Remove the CPU fan *page 2 - 13*

To remove the Wireless LAN Module & Keyboard:

1. Remove the battery *page 2 - 5*
2. Remove the WLAN & keyboard *page 2 - 14*

To remove the 3.75G Module:

1. Remove the battery *page 2 - 5*
2. Remove the 3.75G module *page 2 - 18*

To remove the Front Cover:

1. Remove the battery *page 2 - 5*
2. Remove the front cover *page 2 - 19*

Removing the Battery

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

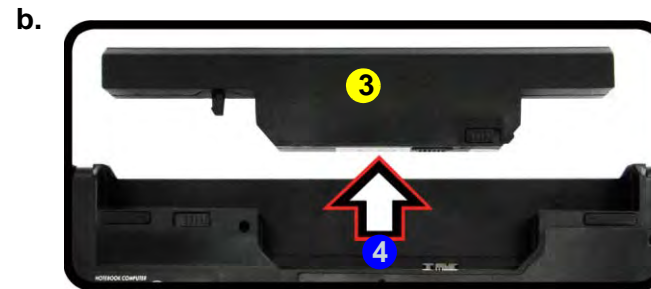
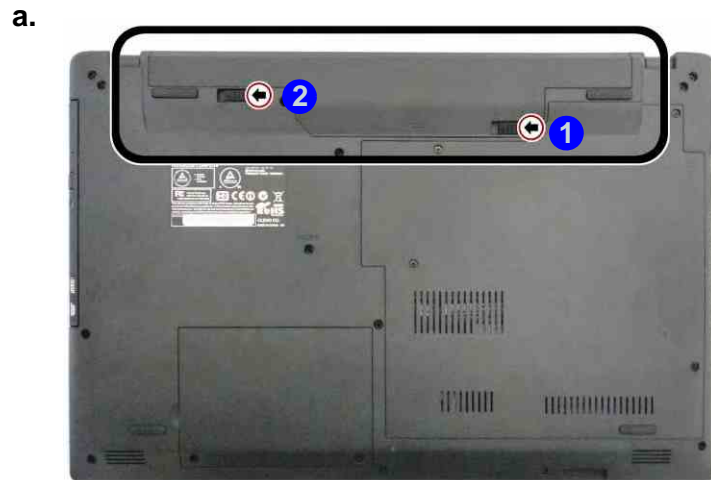
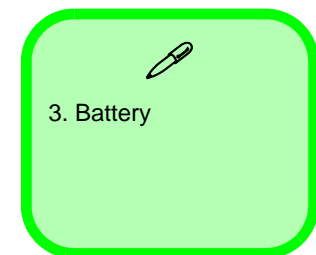


Figure 1
Battery Removal

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



Disassembly

Figure 2
**HDD Assembly
Removal**

Removing the Hard Disk Drive

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

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

Hard Disk Upgrade Process

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



- 2 Screws



HDD System Warning

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

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

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

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

3. Lift the hard disk bay cover from point **3** (*Figure 3b*).
4. Remove the hard disk bay cover **4** (*Figure 3b*).
5. Grip the tab and slide the hard disk assembly in the direction of arrow **5** (*Figure 3c*).
6. Lift the hard disk assembly **6** out of the bay **7** (*Figure 3d*).
7. Remove the screws **8** - **9** and the adhesive cover **10** from the hard disk **11** (*Figure 3e*).
8. Reverse the process to install a new hard disk (do not forget to replace all the screws and bay cover).

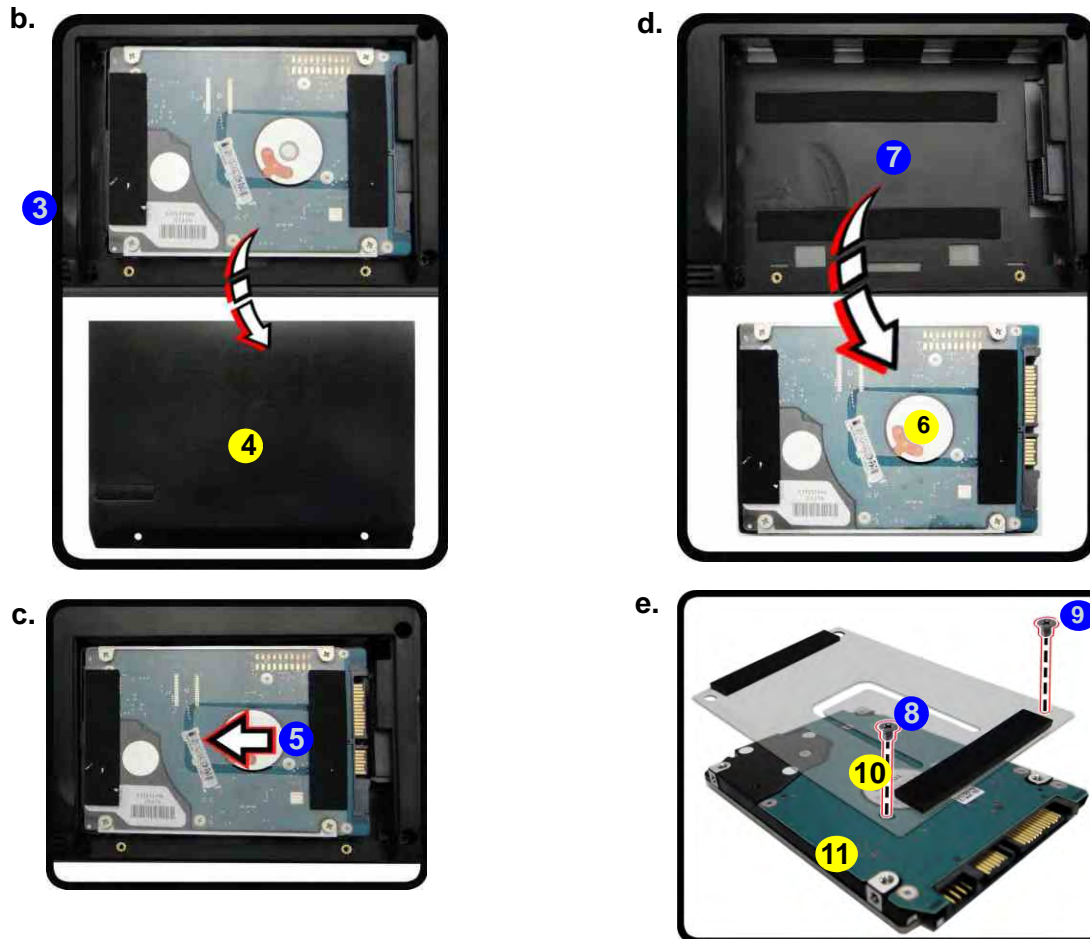


Figure 3
**HDD Assembly
Removal (cont'd.)**

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

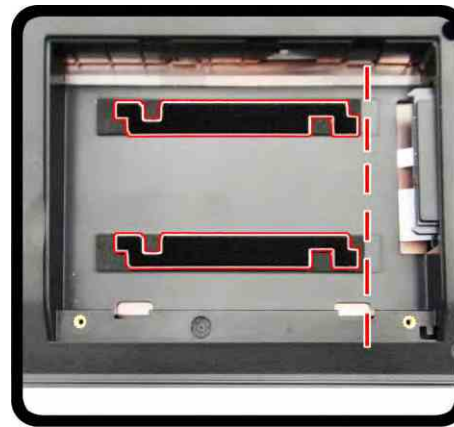


Disassembly

Hard Disk Size Note (Foam Rubber Insert)

Note that the hard disks pictured on the following pages are all 9.5mm(H) hard disk drives. In some cases 7mm(H) hard disk drives will be installed. For more information contact your distributor/supplier, and bear in mind your warranty terms.

Figure 4
**Foam Rubber
Insert for 7mm(H)
HDDs**

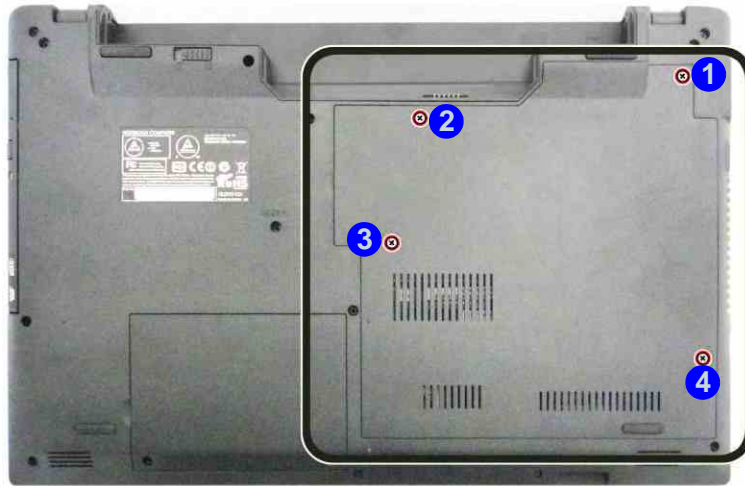


- If you are replacing a 9.5mm(H) HDD with a 7mm(H) HDD then insert the foam rubber insert (as shown above).
- If you are replacing a 7mm(H) HDD with a 9.5mm(H) HDD then remove the foam rubber insert.

Removing the Optical (CD/DVD) Device

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. Locate the component bay cover and remove screws **1** - **4** ([Figure 5a](#)).
3. Remove the component bay cover **5** ([Figure 5b](#)).

a.



b.

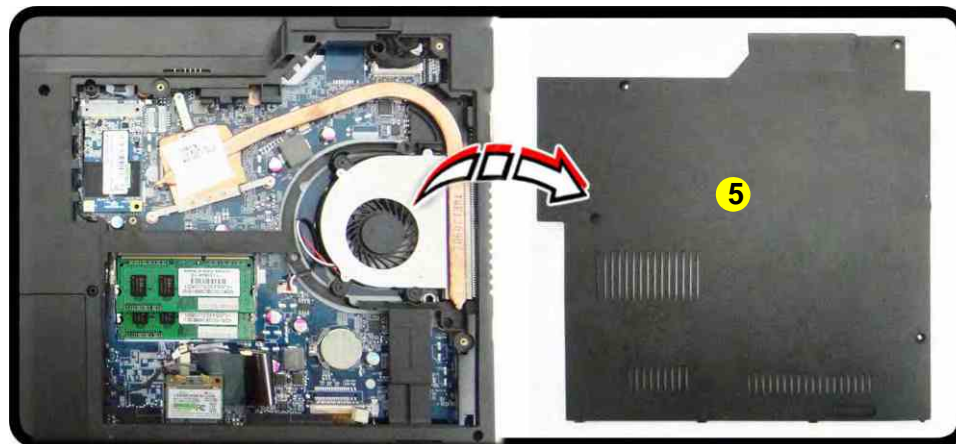


Figure 5
**Optical Device
Removal**

- a. Remove the screws.
- b. Remove the component bay cover.



5. Component Bay Cover

- 4 Screws

Disassembly

Figure 6
**Optical Device
Removal (cont'd.)**

- c. Remove the screw at point **6**.
d. Use a screwdriver to carefully push out the optical device at point **7**.

4. Remove the screw at point **6** (*Figure 6c*).
5. Use a screwdriver to carefully push out the optical device **8** at point **7** (*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).
7. Replace the component bay cover and screws.
8. Restart the computer to allow it to automatically detect the new device.



8. Optical Device

- 1 Screw

Removing the System Memory (RAM)

The computer has two memory sockets for 204 pin Small Outline Dual In-line Memory Modules (SO-DIMM) supporting DDR3L Up to 1600 MHz. The main memory can be expanded up to 16GB. The total memory size is automatically detected by the POST routine once you turn on your computer.

Memory Upgrade Process

1. Turn **off** the computer, turn it over, and remove the battery ([page 2 - 5](#)).
2. Remove screws **1** - **4** from the component bay cover ([Figure 7a](#)).
3. Carefully lift up the bay cover **5**.
4. The RAM modules will be visible at point **6** on the mainboard ([Figure 7b](#)).

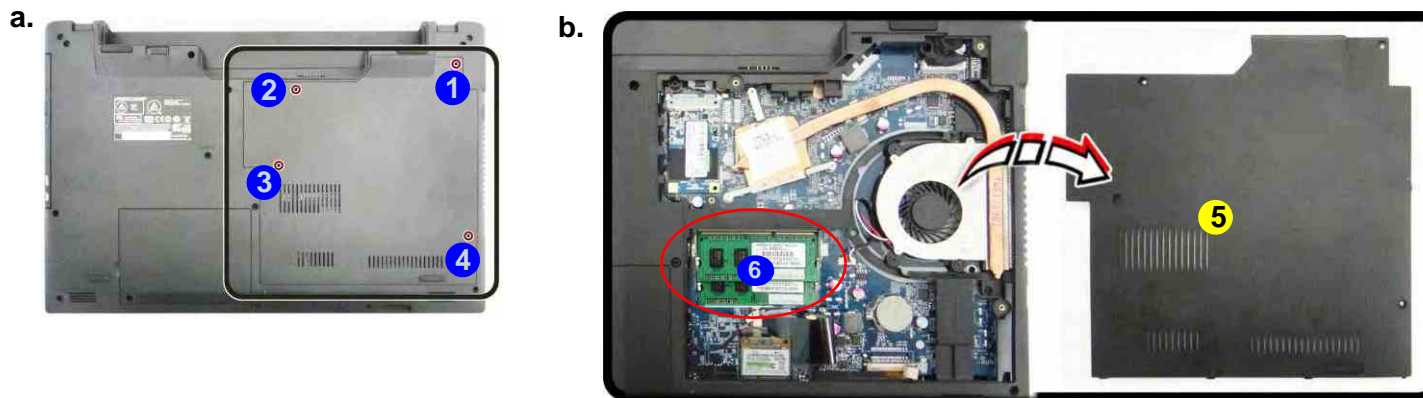


Figure 7
RAM Module Removal

- a. Remove the screws from the component bay cover.
- b. Remove the component bay cover. The RAM modules will be visible at point **6** on the mainboard.



Contact Warning

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



5. Component Bay Cover

- 4 Screws

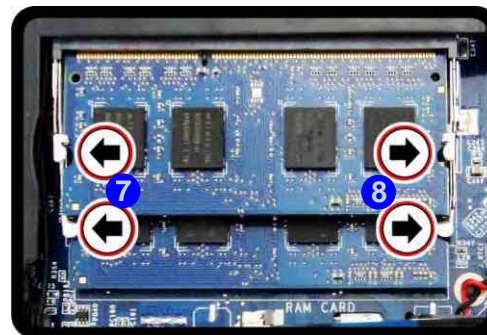
Disassembly

Figure 8
**RAM Module
Removal (cont'd)**

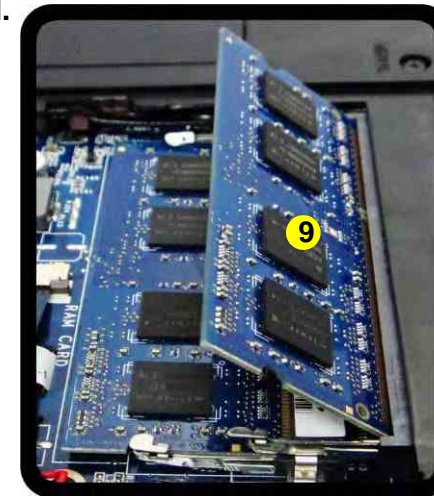
- c. Pull the release latches.
- d. Remove the module.

5. Gently pull the two release latches (7 & 8) on the sides of the memory socket in the direction indicated by the arrows (*Figure 8c*). The RAM module 9 will pop-up (*Figure 8d*), and you can then remove it.
6. Pull the latches to release the second module if necessary.
7. Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
8. 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.
9. Press the module in and down towards the mainboard until the slot levers click into place to secure the module.
10. Replace the component bay cover and the screws (see [page 2 - 11](#)).
11. Restart the computer to allow the BIOS to register the new memory configuration as it starts up.

c.



d.



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.



9. RAM Module



Single Memory Module Installation

If your computer has a single memory module, then insert the module into the **Channel 0 (JDIMM1)** socket. In this case this is the **lower memory socket** (the socket closest to the mainboard).

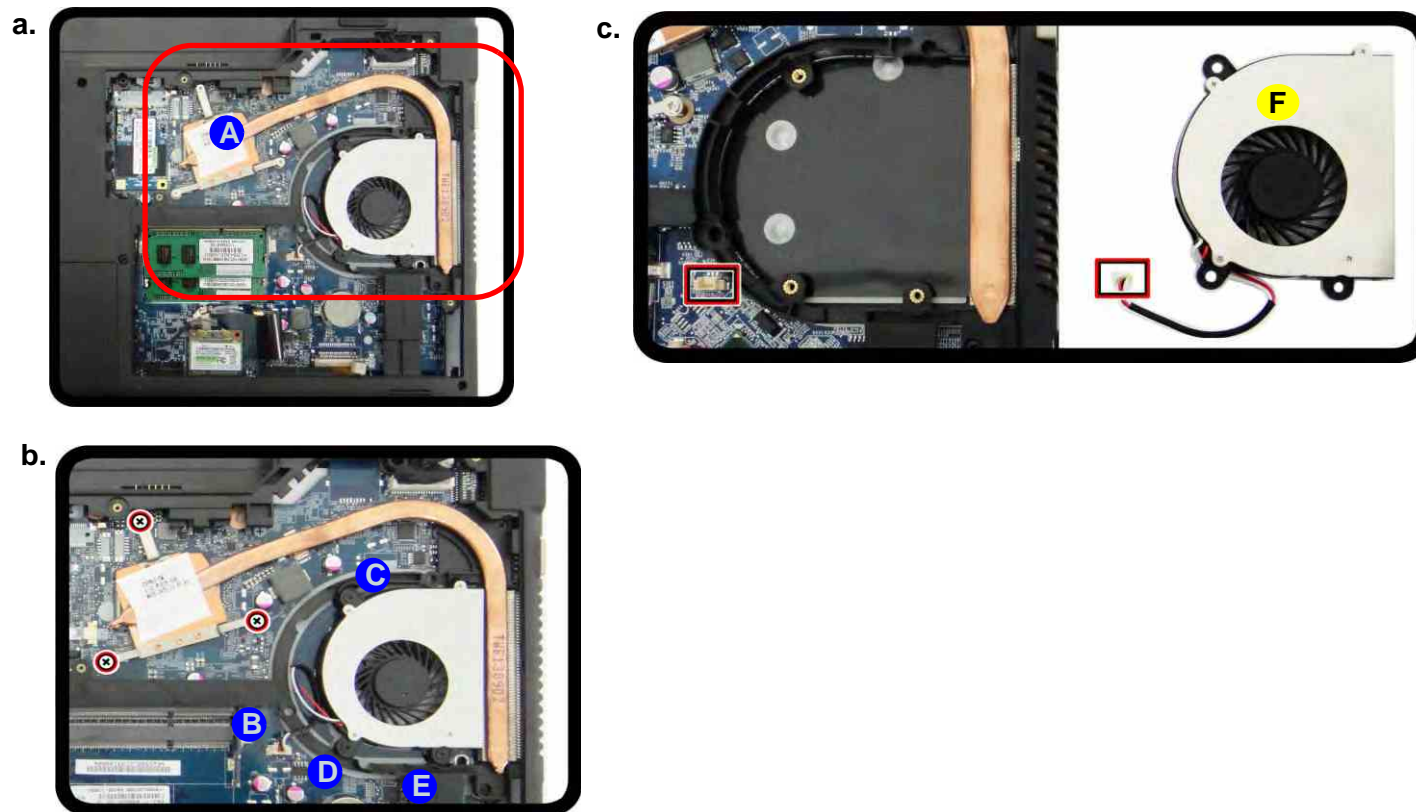
Removing the Heatsink

Processor Removal Procedure

1. Turn **off** the computer, turn it over, remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 9](#)).
2. The CPU heat sink will be visible at point **A** ([Figure 9a](#)).
3. Carefully disconnect the fan cable **B**, and then remove the screws **C** - **E** ([Figure 9b](#)).
4. Lift the fan **F** out of the bay ([Figure 9c](#)).
5. Reverse the process to install a new CPU fan.

Figure 9
Heatsink Removal

- a. Locate the CPU heat sink.
- b. Disconnect the cable and remove the screws.
- c. Remove the fan.



- F. Fan
- 3 Screws

Disassembly

Figure 10
Wireless LAN Module and Keyboard Removal

- Locate the WLAN.
- Disconnect the cable and remove the screw.
- The WLAN module will pop up.
- Disconnect the keyboard ribbon cable from the locking collar socket.

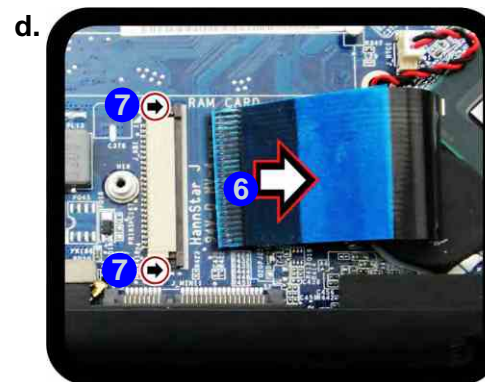
Note: Make sure you reconnect the antenna cable to the “1 + 2” socket (Figure 10b).

4. Wireless LAN Module

- 1 Screw

Removing the Wireless LAN Module and Keyboard

- Turn **off** the computer, turn it over, remove the battery (page 2 - 5) and the component bay cover (page 2 - 9).
- The Wireless LAN module will be visible at point ① on the mainboard and keyboard ribbon cable under the Wireless LAN module (Figure 10a).
- Carefully disconnect the cable ②, and then remove the screw ③ (Figure 10b).
- The Wireless LAN module ④ (Figure 10c) will pop-up, and you can remove it from the computer and the keyboard ribbon cable will be visible at point ⑤.
- Careful not to bend the keyboard ribbon cable ⑥. Disconnect the keyboard ribbon cable from the locking collar socket ⑦ (Figure 10d).



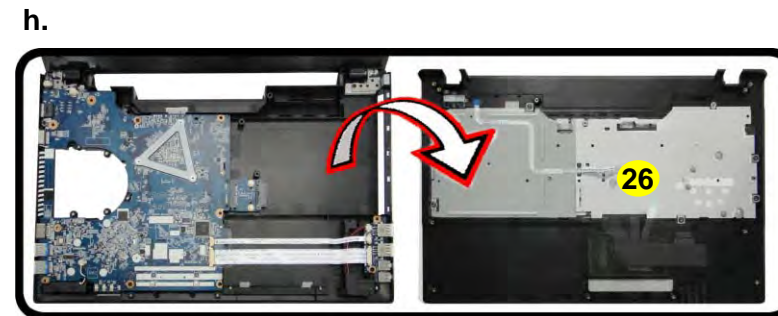
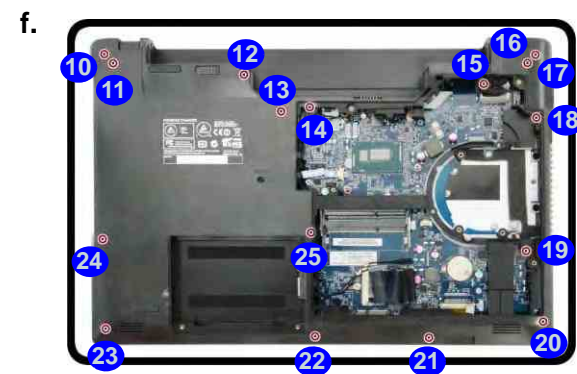
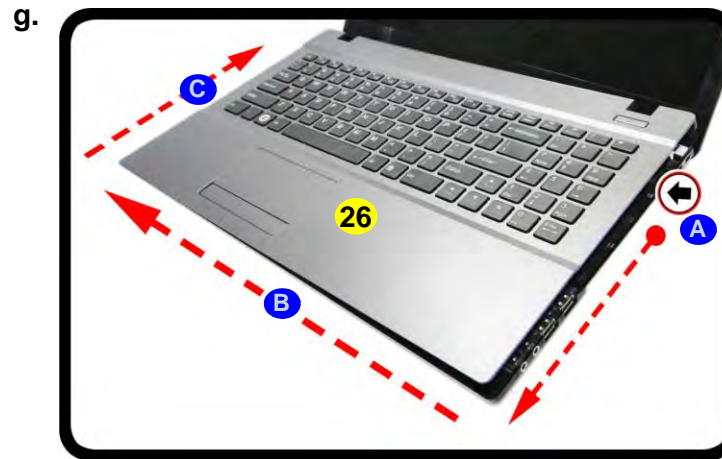
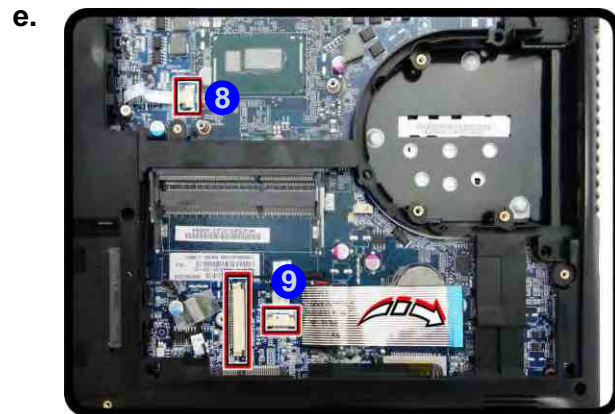
Touchpad Cable

The touchpad cable is underneath the keyboard cable. When disassembling the mainboard, the touchpad cable must be disconnected.

Figure 11
Keyboard Removal

- e. Disconnect the cables.
- f. Remove the screws.
- g. Pry the top case off the bottom case.
- h. Separate the top and bottom case.

- 6. Disconnect cables 8 - 9 (Figure 11e).
- 7. Remove screws 10 - 25 from the bottom case.
- 8. Turn the computer over, carefully pry the top case 26 off the bottom case at points A - C (Figure 11g).
- 9. Separate the top case 26 up and off the bottom case (Figure 11h)




26. Top Case

- 16 Screws

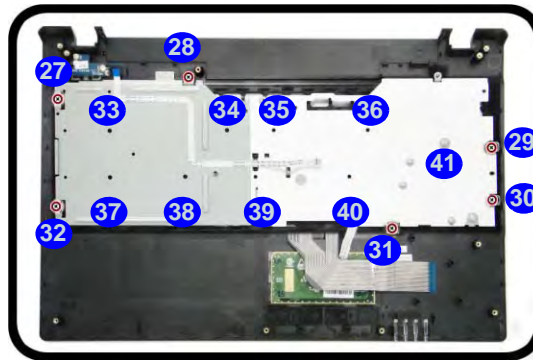
Disassembly

Figure 12
Keyboard Removal
(cont'd)

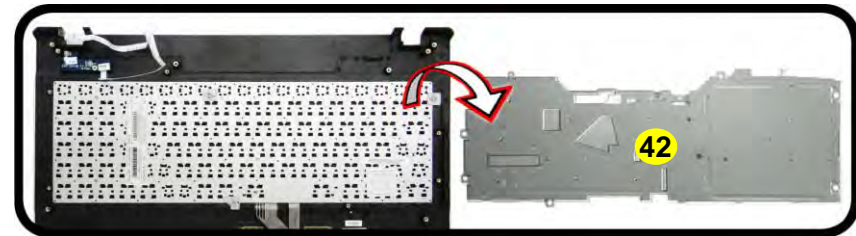
- i. Remove the screws.
- j. Lift the keyboard shielding plate.
- k. Separate the keyboard from the top case.

- 10. Remove screws 27 - 32 from the top case.
- 11. Remove screws 33 - 41 from the keyboard shielding plate (**Note:** when removing special screws 33 - 41, you'll need to use an (#0 head) electric screwdriver - set to a low spin of 300r.p.m. and low torque at 0.1~1.5kgf.cm. The Lock torque should be set to 0.35~0.45kgf.cm, and should not be exceeded or it may cause screw damage).
- 12. Carefully lift the keyboard shielding plate 42.
- 13. Carefully separate the keyboard 43 from the top case (*Figure 12k*).

i.



j.



k.



42.Keyboard Shielding Plate
43.Keyboard

- 15 Screws

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	Gray	
	WM 3	White	
LTE Broadband	LTE 1	Black	Black
	LTE 2	Gray	
3G Broadband	3G 1	Black	Black
	3G 2	Gray	

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

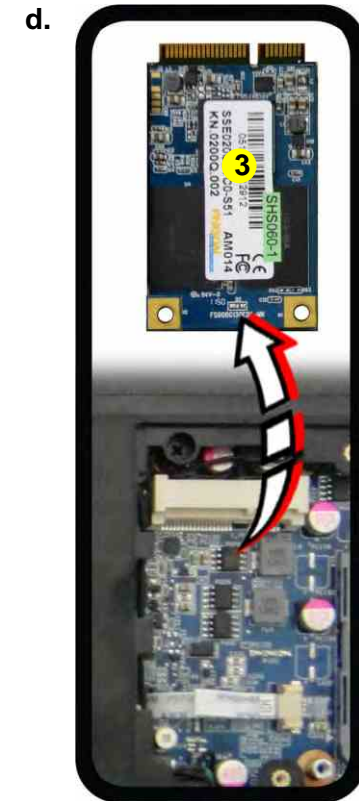
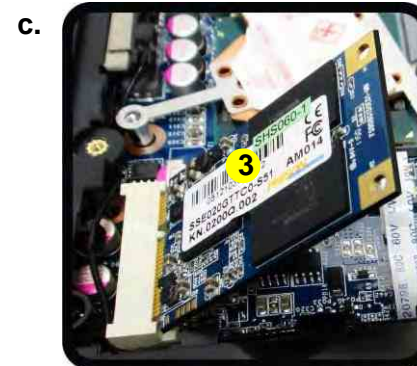
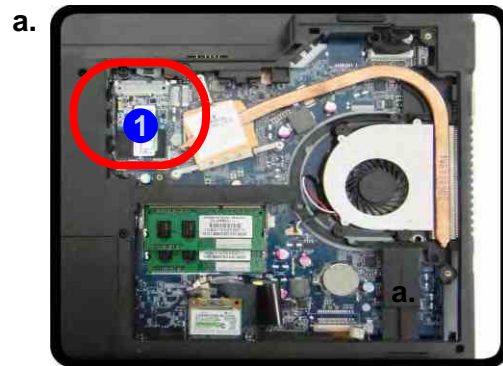
Disassembly


Figure 13
3G Module Removal

- Locate the 3.75G module.
- Remove the screw.
- The module will pop-up.
- Remove the 3.75G module.

Removing the 3.75G Module

- Turn **off** the computer, turn it over, remove the battery ([page 2 - 13](#)) and the component bay cover ([page 2 - 11](#)).
- The 3.75G module will be visible at point **1** on the mainboard ([Figure 13a](#)).
- Carefully remove the screw **2** ([Figure 13b](#)).
- The 3.75G module **3** ([Figure 13c](#)) will pop-up, and you can remove it from the computer ([Figure 13d](#)).



- 
3. 3.75G Module
- 1 Screw



Power Button Cable

The power button cable is underneath the 3G module. When disassembling the mainboard, the power button cable must be disconnected.

Removing the Front Cover

1. Turn **off** the computer, turn it over, and remove the battery ([page 2 - 13](#)).
2. Carefully remove the rubber screw covers **1** - **4** and screws **5** - **8** from the front cover ([Figure 14a](#)).
3. Run your fingers around the inner frame of the LCD panel at the points as indicated by the arrows **9** - **12**.
4. Lay the computer down on a flat surface with the top case up forming a 90 degree angle. Push the LCD front cover **13** upwards before carefully lifting it up.
5. Remove the LCD front cover **13** ([Figure 14c](#)).
6. Reverse the process to install a new front cover.

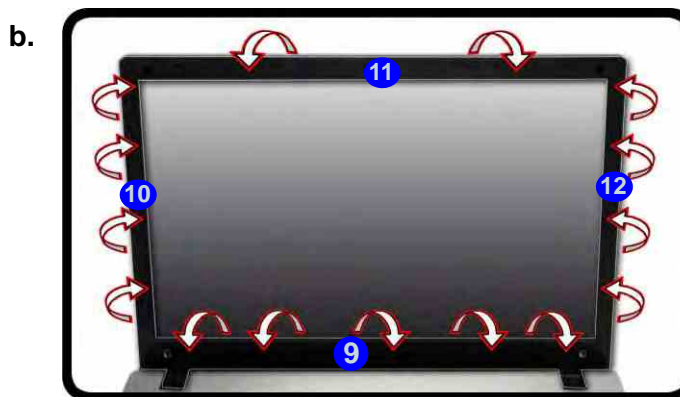
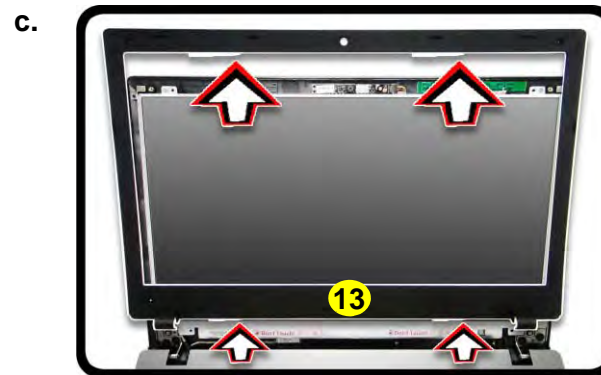
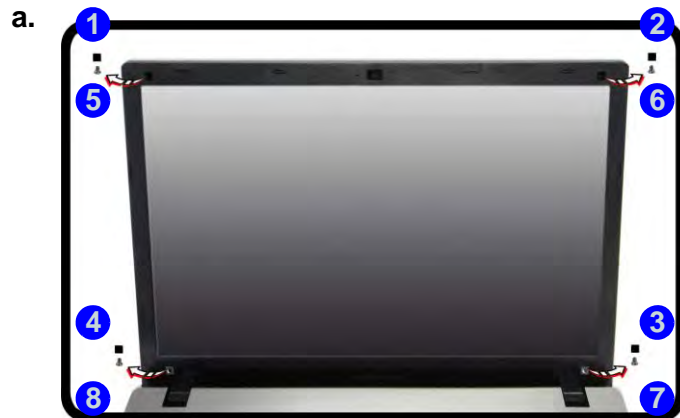


Figure 14
**Front Cover
Removal**

- a. Carefully remove the rubber screw covers and screws from the front cover.
- k. Run your fingers around the inner frame of the LCD panel at the points indicated by the arrows.
- l. 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.
- d. Remove the LCD front cover.



13. LCD Front Cover

- 4 Screws

Appendix A:Part Lists

This appendix breaks down the *W550SU2* / *W555SUY* 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	W550SU2	W555SU7
Top	<i>page A - 3</i>	<i>page A - 4</i>
Bottom	<i>page A - 5</i>	<i>page A - 6</i>
DVD Dual Drive	<i>page A - 7</i>	
Dummy ODD	<i>page A - 8</i>	
LCD	<i>page A - 9</i>	<i>page A - 10</i>

Top (W550SU2)

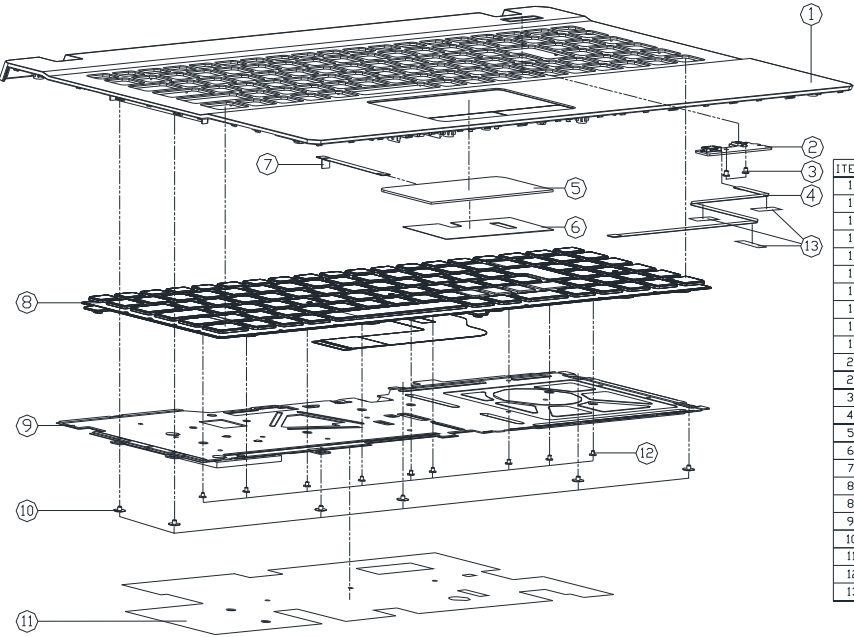
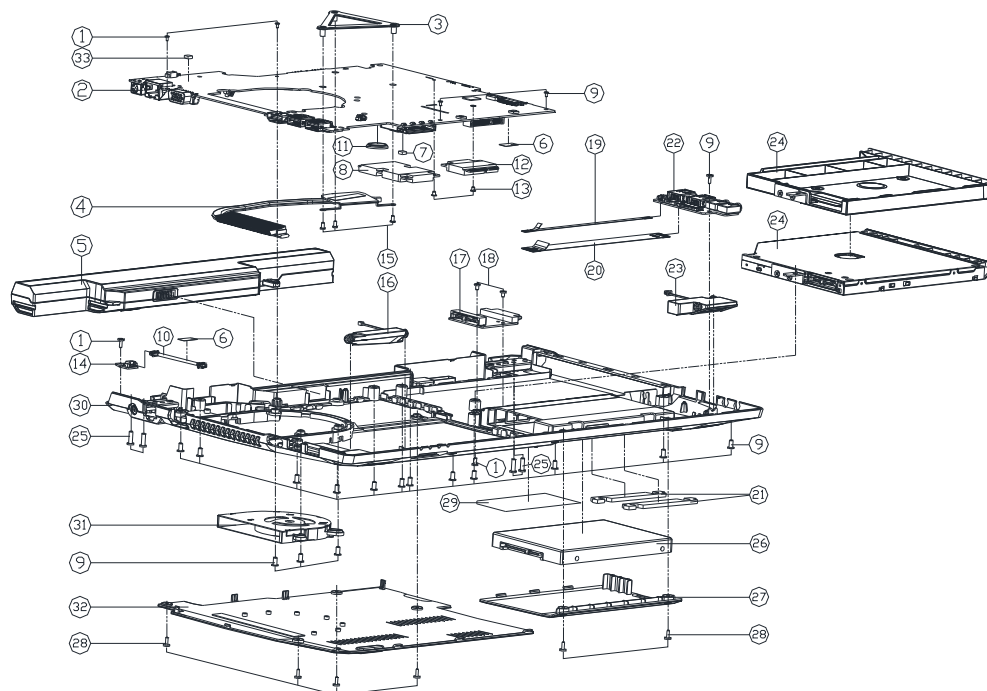


Figure A - 1
Top (W550SU2)

ITEM	PART NAME	PART NO	REMARK
1	TOP CASE (W550SU2) - THE MAIN TOP COVER	6-39-W5502-024	
1	TOP CASE (W550SU2) - THE MAIN TOP COVER	6-39-W5502-024-C	
1	TOP CASE (W550SU2) - THE MAIN TOP COVER	6-39-W5502-044	
1	TOP CASE (W550SU2) - THE MAIN TOP COVER	6-39-W5502-044-C	
1	TOP CASE (W550SU2) - THE MAIN TOP COVER	6-39-W5502-014	
1	TOP CASE (W550SU2) - THE MAIN TOP COVER	6-39-W5502-014-C	
1	TOP CASE (W550SU2) - THE MAIN TOP COVER	6-39-W5502-034	
1	TOP CASE (W550SU2) - THE MAIN TOP COVER	6-39-W5502-034-C	
1	TOP CASE (W550SU2) - THE MAIN TOP COVER	6-39-W5512-032	
1	TOP CASE (W550SU2) - THE MAIN TOP COVER	6-39-W5512-022	
2	POWER SWITCH BOARD V2.0 W550EU	6-77-W540S-D02-A	FOR W550EU/EAU/EL
2	POWER SWITCH BOARD V2.0 W540SUT	6-77-W54SS-D02	FOR W550SUT/SUR
3	SCREW M2x3.5 KI NY (CT NY (00-#4.5,01-0.4)	6-35-B1120-3RE	
4	FFC CABLE FOR POWER BD TO M/B (PIN 40) W550EU	6-43-W5500-011	
5	TOUCH PAD SIMPLIFIED (M-0046-00) MULTI-TOUCH CABLE	6-49-C4802-010	
6	TP TAPE MYLAR PET W540EU	6-40-W5401-010	
7	FFC CABLE FOR TOUCH PAD (PIN 40) W550EU	6-43-W5502-010	
8	K/B US-INTERNATIONAL (M-125304-42W) W550EU	6-80-W5501-011-1	FOR W550EU/EAU/EL
8	K/B US-INTERNATIONAL (M-125304-42W) W550EU	6-80-W5501-011-1	FOR W550EU/EAU/EL
9	K/B SHIELDING MODULE W550EU	6-33-W5502-101	
10	SCREW M2x2.5 KI BK/Z (CT NY (06,7-0.5)	6-35-B6120-2RC	
11	K/B SUPPORT MYLAR W550EU	6-40-W5502-020	
12	SCREW ITS M2x2.5 KI BK/Z (CT NY (00-#4.5,01-0.4)	6-35-26714-2R0	
13	TAPE MYLAR (C) MYLAR M550J	6-40-M55J2-030	

A.Part Lists

ITEM	PART	NAME	PART	NO	REMARK
1	PLAN	REST PROTECTION WALL RESS VSS000	6-40-W5558-010		
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-089	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-089	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-089-1	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-089-1C	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-040	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-040-1	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-040-1	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-040-1C	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-040	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-001	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-010	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-010	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-010C	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-030	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-030	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-030-1	F	W5558UG
2	ONE-PIESSED TOP CASE P	WALLBLEND REST VSS000	6-78-V5558-002-030-1C	F	W5558UG
3	ELECTRIC CONDUCTION CLOTH	GRAND VSS000	6-47-W5552-030		
4	FTC CABLE FOR TOUCH PAD	SPINNO VSS000	6-43-W5502-010		
5	CONDUCTIVE CLOTH FOR BOTTOM CASE	CHAMALLOY VSS00	6-47-W5543-002		
6	TOUCH PAD SWITCHES IN-INK-NO-RED-THICKNESS		6-49-W5402-010		
7	TP TAPE MYLAR PET W540UE		6-40-W5401-000		
8	POWER SWITCH BOARD V28	W540UJ	6-77-W5453-002		
9	SCREW NEXCEL NI PLI NCT	101-00-445J-014	6-35-B1120-390		
10	FTC CABLE FOR TOUCH PAD TO MP	W540 VSS00	6-43-W5502-011		
11	TAPE MYLAR (C) MYLAR	M550J	6-40-W555J-030		
12	KA 04 0-REPAIR-REPAIR-REPAIR-REPAIR-REPAIR-REPAIR		6-80-W5550-010		
13	KB SHIELDING SCRE W5550UE		6-33-W5552-011		
14	SCREW NEXCEL NI BRZ ICT N1925	1-103	6-35-B1120-2R8		
15	KB SHIELDING SCREW PET MYLAR W5550UE		6-40-W5552-020		
16	SCREW IS W542T (B) TP	101-00-445J-049	6-35-26714-2R0		
17	KB SHIELDING FPC PET MYLAR W5550UE		6-40-W5552-040		
18	SPRING FOR CARBONIZER COVER	ZN540UJ000 W550UJ	6-47-W019A-275		



ITEM	PART	NAME	PART	NO	REMARK
1	SCREW M2x4.1	8Z BZ ICT NY	6-33-86120-AR		
2	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-C		
3	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-10		
4	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-2K		
5	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-3		
6	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-4		
7	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-5		
8	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-6		
9	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-7		
10	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-8		
11	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-9		
12	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-10		
13	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-11		
14	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-12		
15	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-13		
16	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-14		
17	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-15		
18	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-16		
19	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-17		
20	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-18		
21	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-19		
22	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-20		
23	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-21		
24	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-22		
25	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-23		
26	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-24		
27	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-25		
28	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-26		
29	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-27		
30	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-28		
31	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-29		
32	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-30		
33	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-31		
34	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-32		
35	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-33		
36	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-34		
37	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-35		
38	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-36		
39	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-37		
40	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-38		
41	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-39		
42	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-40		
43	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-41		
44	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-42		
45	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-43		
46	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-44		
47	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-45		
48	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-46		
49	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-47		
50	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-48		
51	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-49		
52	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-50		
53	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-51		
54	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-52		
55	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-53		
56	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-54		
57	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-55		
58	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-56		
59	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-57		
60	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-58		
61	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-59		
62	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-60		
63	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-61		
64	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-62		
65	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-63		
66	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-64		
67	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-65		
68	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-66		
69	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-67		
70	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-68		
71	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-69		
72	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-70		
73	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-71		
74	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-72		
75	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-73		
76	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-74		
77	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-75		
78	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-76		
79	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-77		
80	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-78		
81	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-79		
82	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-80		
83	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-81		
84	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-82		
85	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-83		
86	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-84		
87	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-85		
88	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-86		
89	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-87		
90	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-88		
91	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-89		
92	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-90		
93	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-91		
94	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-92		
95	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-93		
96	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-94		
97	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-95		
98	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-96		
99	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-97		
100	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-98		
101	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-99		
102	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-100		
103	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-101		
104	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-102		
105	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-103		
106	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-104		
107	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-105		
108	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-106		
109	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-107		
110	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-108		
111	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-109		
112	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-110		
113	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-111		
114	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-112		
115	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-113		
116	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-114		
117	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-115		
118	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-116		
119	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-117		
120	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-118		
121	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-119		
122	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-120		
123	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-121		
124	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-122		
125	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-123		
126	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-124		
127	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-125		
128	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-126		
129	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-127		
130	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-128		
131	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-129		
132	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-130		
133	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-131		
134	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-132		
135	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-133		
136	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-134		
137	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-135		
138	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-136		
139	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-137		
140	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-138		
141	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-139		
142	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-140		
143	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-141		
144	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-142		
145	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-143		
146	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-144		
147	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-145		
148	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-146		
149	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-147		
150	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-148		
151	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-149		
152	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-150		
153	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-151		
154	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-152		
155	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-153		
156	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-154		
157	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-155		
158	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-156		
159	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-157		
160	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-158		
161	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-159		
162	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-160		
163	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-161		
164	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-162		
165	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-163		
166	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-164		
167	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-165		
168	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-166		
169	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-167		
170	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-168		
171	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-169		
172	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-170		
173	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-171		
174	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-172		
175	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-173		
176	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-174		
177	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-175		
178	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-176		
179	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-177		
180	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-178		
181	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-179		
182	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-180		
183	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-181		
184	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-182		
185	W/HD COVER M2x4.1	8Z BZ ICT NY	6-77-VSS500-00A-1		

Figure A - 2
Bottom (W550SU2)

A.Part Lists

This exploded view diagram illustrates the assembly of the HP Z440 G2 SFF PC chassis. The components are numbered as follows:

- 1:** Screws for the front bezel and internal components.
- 2:** Front bezel assembly.
- 3:** Top cover/screw.
- 4:** Front bezel/screw.
- 5:** Front bezel/screw.
- 6:** Screws for the front bezel.
- 7:** Internal component/screw.
- 8:** Internal component/screw.
- 9:** Screws for the front bezel and internal components.
- 10:** Internal component/screw.
- 11:** Internal component/screw.
- 12:** Internal component/screw.
- 13:** Internal component/screw.
- 14:** Internal component/screw.
- 15:** Internal component/screw.
- 16:** Internal component/screw.
- 17:** Internal component/screw.
- 18:** Internal component/screw.
- 19:** Internal component/screw.
- 20:** Internal component/screw.
- 21:** Internal component/screw.
- 22:** Internal component/screw.
- 23:** Internal component/screw.
- 24:** Internal component/screw.
- 25:** Screws for the front bezel and internal components.
- 26:** Internal component/screw.
- 27:** Internal component/screw.
- 28:** Internal component/screw.
- 29:** Internal component/screw.
- 30:** Internal component/screw.
- 31:** Internal component/screw.
- 32:** Internal component/screw.
- 33:** Internal component/screw.

[illegible]

DVD DUAL

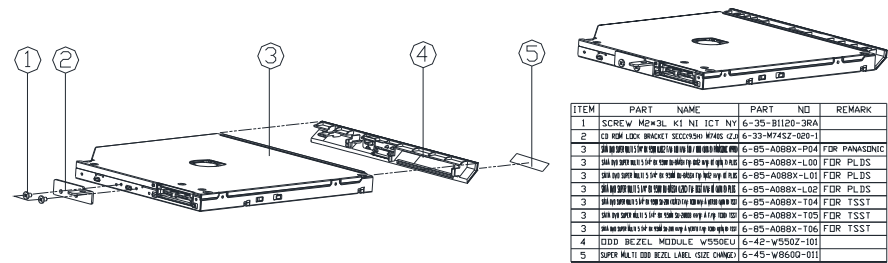
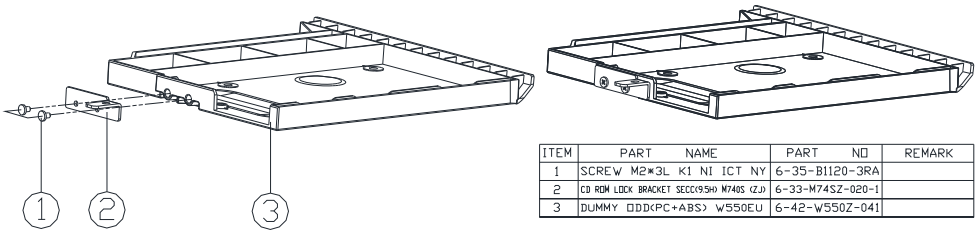


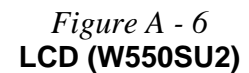
Figure A - 4
DVD DUAL

Dummy ODD

Figure A - 5
Dummy ODD



A.Part Lists



LCD (W550SU2) A - 9

A.Part Lists

This exploded view diagram illustrates the assembly of the Kampa Kube 200 tent. The components are numbered as follows:

- 1**: Top flysheet
- 2**: Top flysheet clips
- 3**: Top flysheet clips (multiple locations)
- 4**: Top flysheet clips (multiple locations)
- 5**: Top flysheet clips (multiple locations)
- 6**: Top flysheet clips (multiple locations)
- 7**: Top flysheet clips (multiple locations)
- 8**: Top flysheet clips (multiple locations)
- 9**: Top flysheet clips (multiple locations)
- 10**: Top flysheet clips (multiple locations)
- 11**: Top flysheet clips (multiple locations)
- 12**: Top flysheet clips (multiple locations)
- 13**: Top flysheet clips (multiple locations)
- 14**: Top flysheet clips (multiple locations)
- 15**: Top flysheet clips (multiple locations)
- 16**: Top flysheet clips (multiple locations)
- 17**: Top flysheet clips (multiple locations)
- 18**: Bottom flysheet
- 19**: Bottom flysheet clips
- 20**: Bottom flysheet clips (multiple locations)
- 21**: Bottom flysheet clips (multiple locations)
- 22**: Bottom flysheet clips (multiple locations)
- 23**: Bottom flysheet clips (multiple locations)
- 24**: Bottom flysheet clips (multiple locations)
- 25**: Bottom flysheet clips (multiple locations)

ITEM	PART	NAME	PART NO	REMARK
1	LED FRONT COVER PROJECTION SLIM 4000K 10000000000000000000		6-40-E3501-030-I	
2	FRONT COVER SCREEN RUBBER W540EU		6-37-51400-001	
3	SCREEN MONOL X1 10.1" BT NY 00-045-031-040		6-45-W1820-3RE	
4	CCD LENS MMIA W540EU		6-42-W5540-010	OPTION
5	LCD FRONT COVER MODULE W5500EU		6-39-W5551-011	
6	LED T567 FHD LG UPP5540-F-H11 LG 38" MM		6-50-L1834-100	OPTION
7	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-100	OPTION
8	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-101	OPTION
9	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-102	OPTION
10	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-103	OPTION
11	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-104	OPTION
12	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-105	OPTION
13	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-106	OPTION
14	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-107	OPTION
15	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-108	OPTION
16	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-109	OPTION
17	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-110	OPTION
18	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-111	OPTION
19	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-112	OPTION
20	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-113	OPTION
21	LED T567 HD LG UPP5540-F-H11 LG 38" MM		6-50-L1838-114	OPTION
22	LCD BKT L (SECC) W550EU		6-33-W5501-020	ONLY FOR 6-39-W5551-010
23	LCD BKT R (SECC) W550EU		6-33-W5501-020	ONLY FOR 6-39-W5551-010
24	GASKET ORANGEAD FOR CPU COVER W445-0		6-47-00190-050	ONLY FOR 6-39-W5551-010
25	LCD PROIN (180x540x9) W550EU		6-47-W5501-020	ONLY FOR 6-39-W5551-010

Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the **W550SU2 / W555SUY** 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 PS8613 - Page B - 17</i>	<i>VCore - Page B - 32</i>
<i>Processor 1/7 - Page B - 3</i>	<i>LVDS PS8625 - Page B - 18</i>	<i>Charger, DC In - Page B - 33</i>
<i>Processor 2/7 - Page B - 4</i>	<i>USB Hub AU6259-JGF - Page B - 19</i>	<i>Audio Board - Page B - 34</i>
<i>Processor 3/7 - Page B - 5</i>	<i>Card Reader & LAN RTL8411B - Page B - 20</i>	<i>Audio Board - Page B - 35</i>
<i>Processor 4/7 - Page B - 6</i>	<i>HDMI, RJ45, Fan - Page B - 21</i>	<i>LID Switch Board - Page B - 36</i>
<i>Processor 5/7 - Page B - 7</i>	<i>WLAN, 3G, MSATA - Page B - 22</i>	<i>Power Switch Board - Page B - 37</i>
<i>Processor 6/7 - Page B - 8</i>	<i>Audio Codec ALC269 - Page B - 23</i>	<i>Power Switch Board - Page B - 38</i>
<i>Processor 7/7 - Page B - 9</i>	<i>USB 3.0, G-Sensor, TPM - Page B - 24</i>	<i>Touch Panel Board - Page B - 39</i>
<i>Power 1 - Page B - 10</i>	<i>HDD, CCD, TPM, Power Con - Page B - 25</i>	<i>Power On Sequence - Page B - 40</i>
<i>Power 2 - Page B - 11</i>	<i>CCD, MIC, LID, I/O Connector - Page B - 26</i>	
<i>Power VSS - Page B - 12</i>	<i>HDD, ODD, LED - Page B - 27</i>	
<i>RSVD - Page B - 13</i>	<i>System Power - Page B - 28</i>	
<i>DDR3 SO-DIMM A - Page B - 14</i>	<i>VDD3, VDD5 - Page B - 29</i>	
<i>DDR3 SO-DIMM B - Page B - 15</i>	<i>ALC269Q, VT1802S - Page B - 30</i>	
<i>Panel, Inverter - Page B - 16</i>	<i>1.05V Series - Page B - 31</i>	

Table B - 1
**SCHEMATIC
DIAGRAMS**

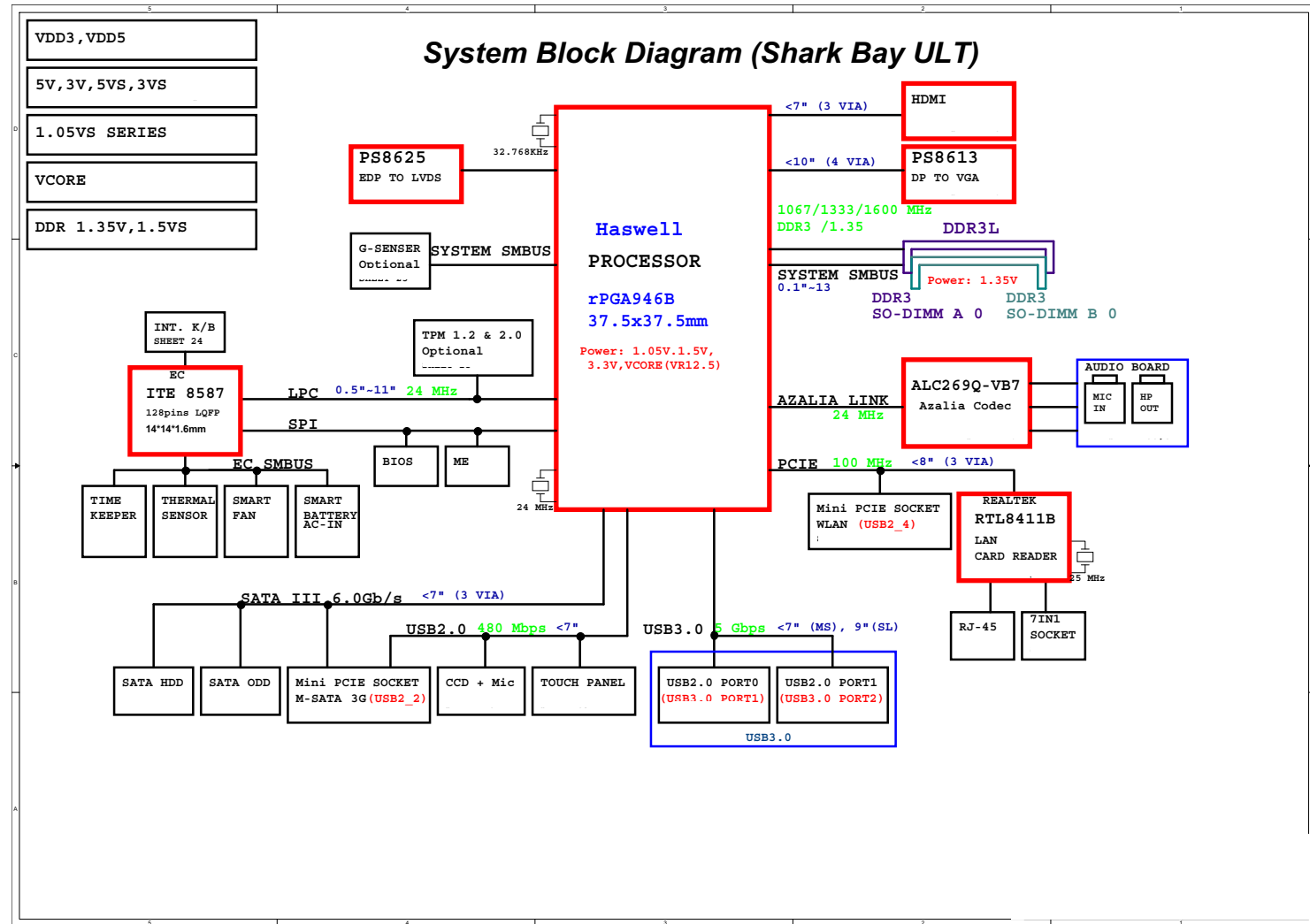


Version Note

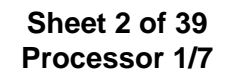
The schematic diagrams in this chapter are based upon version 6-7P-W5S27-002. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

System Block Diagram

Sheet 1 of 39
System Block
Diagram

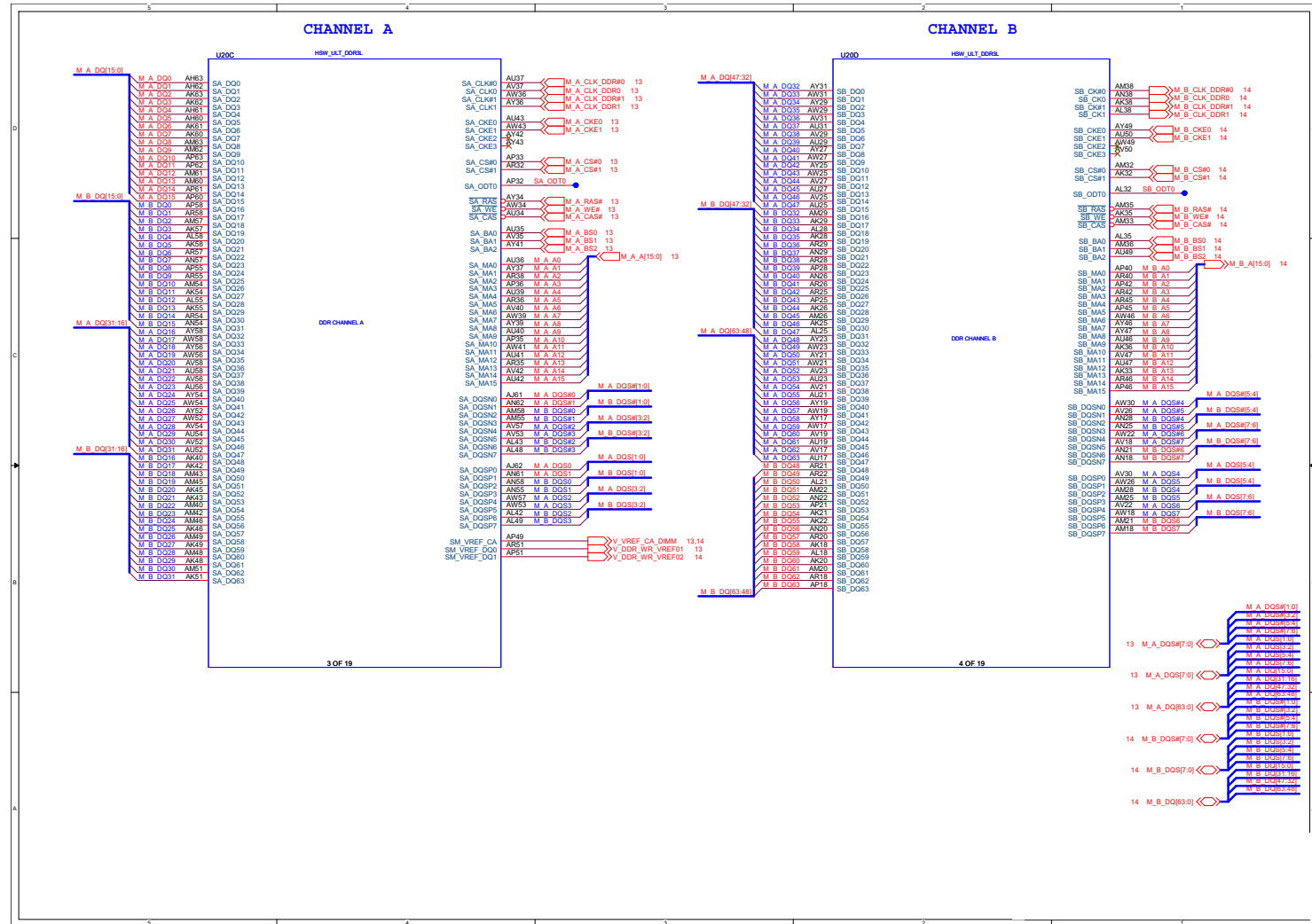


Processor 1/7 B - 3

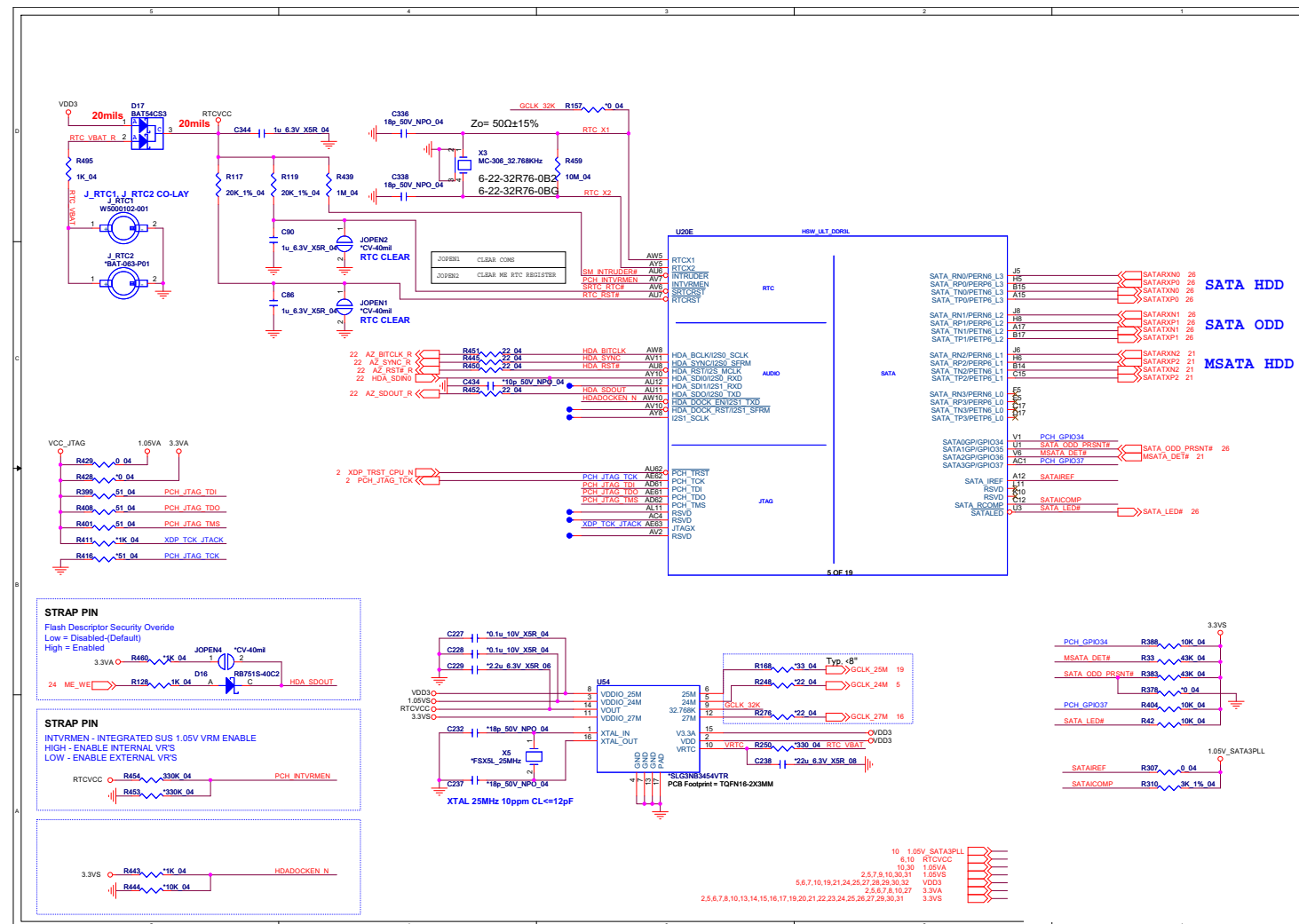


Schematic Diagrams

Processor 2/7

Sheet 3 of 39
Processor 2/7

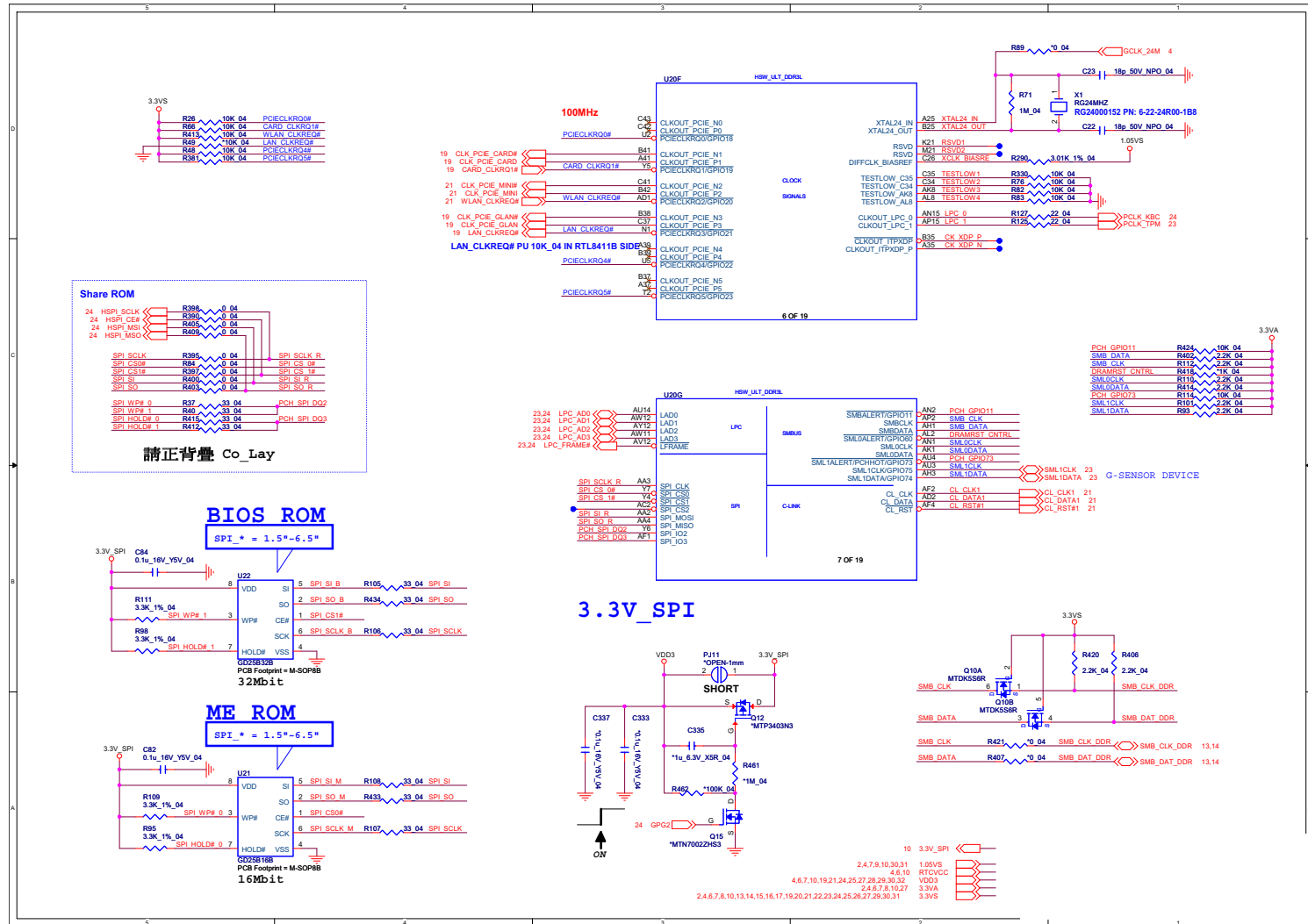
Processor 3/7 B - 5



Schematic Diagrams

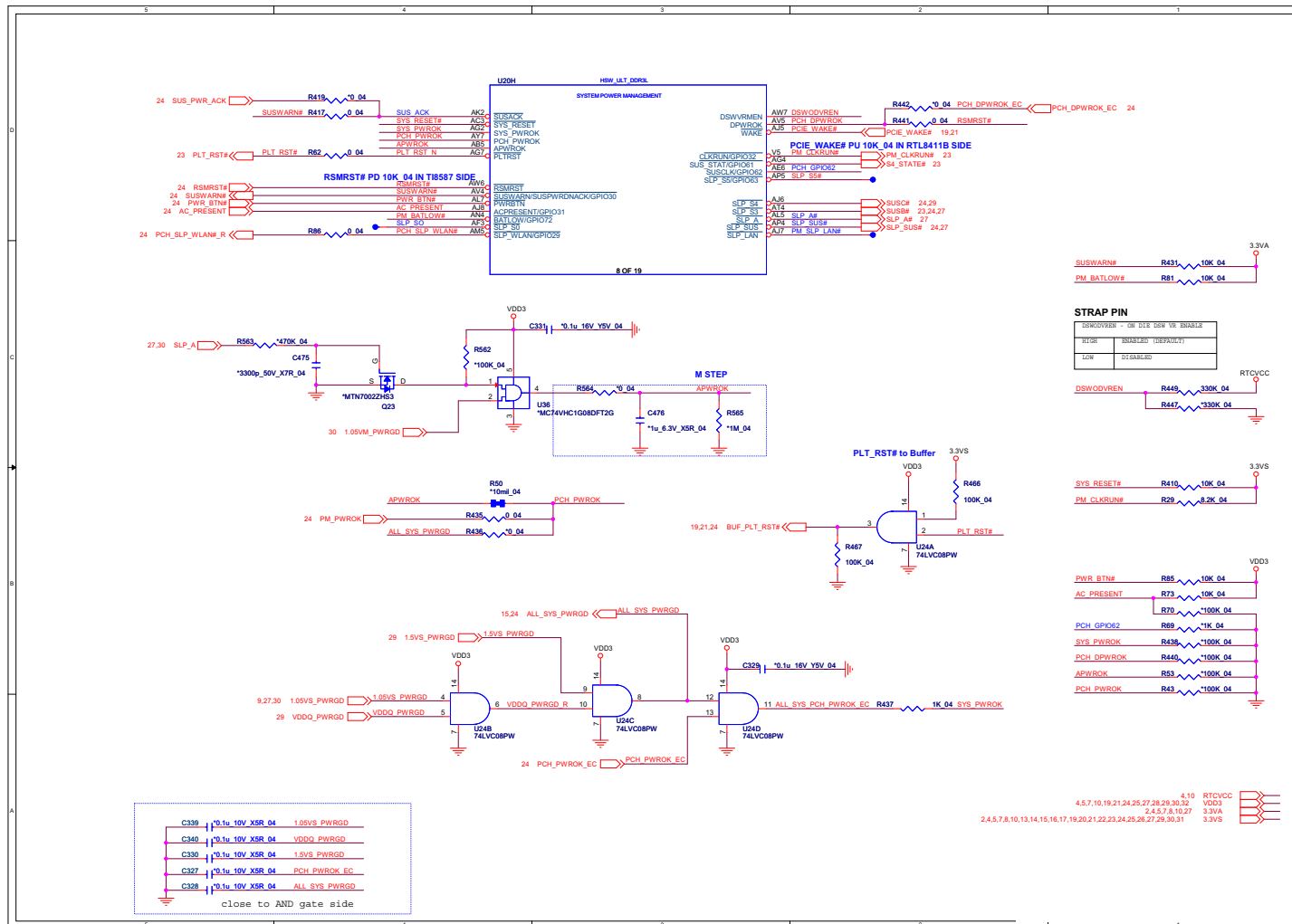
Processor 4/7

Sheet 5 of 39
Processor 4/7



Processor 5/7

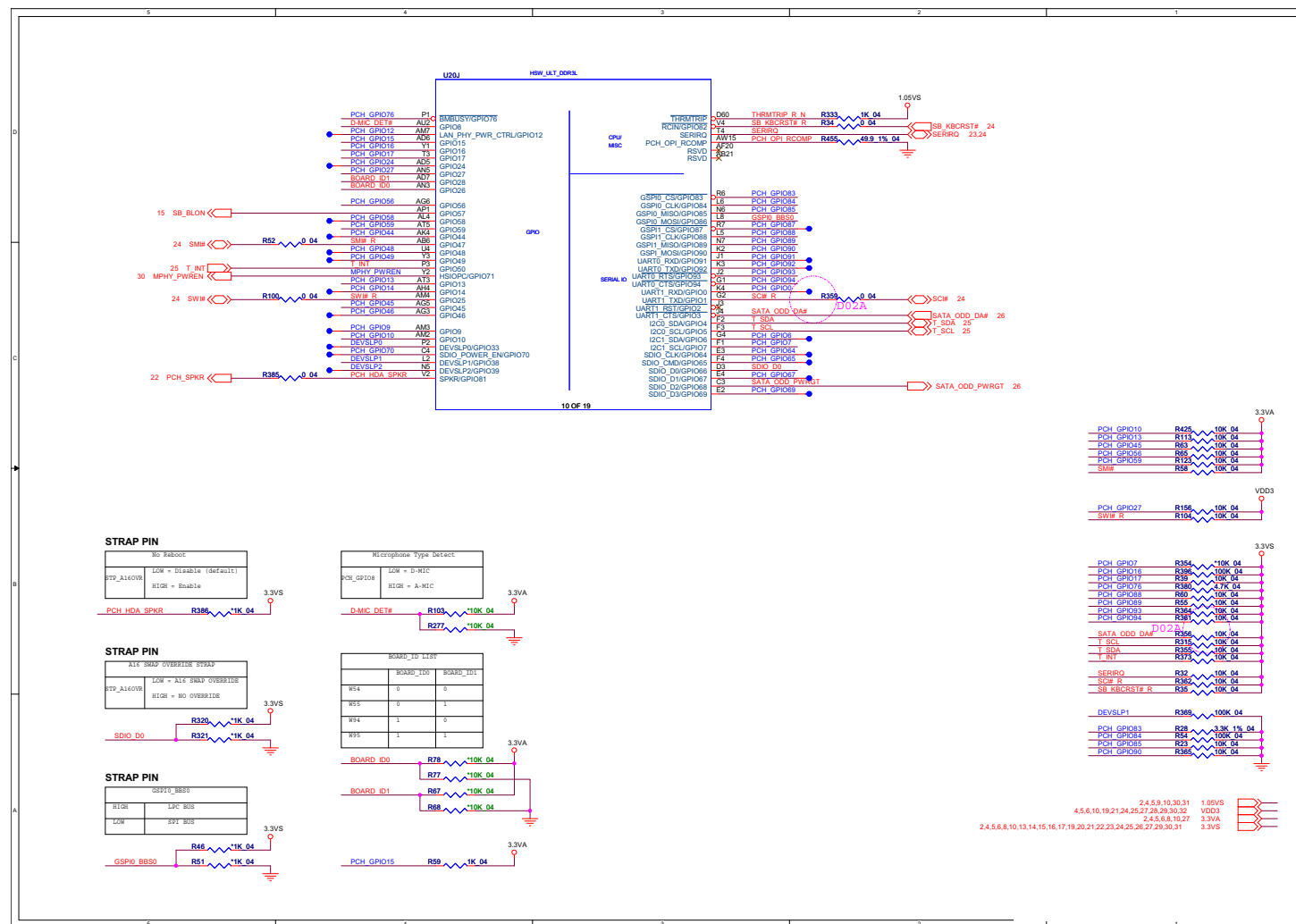
Sheet 6 of 39
Processor 5/7



Processor 6/7

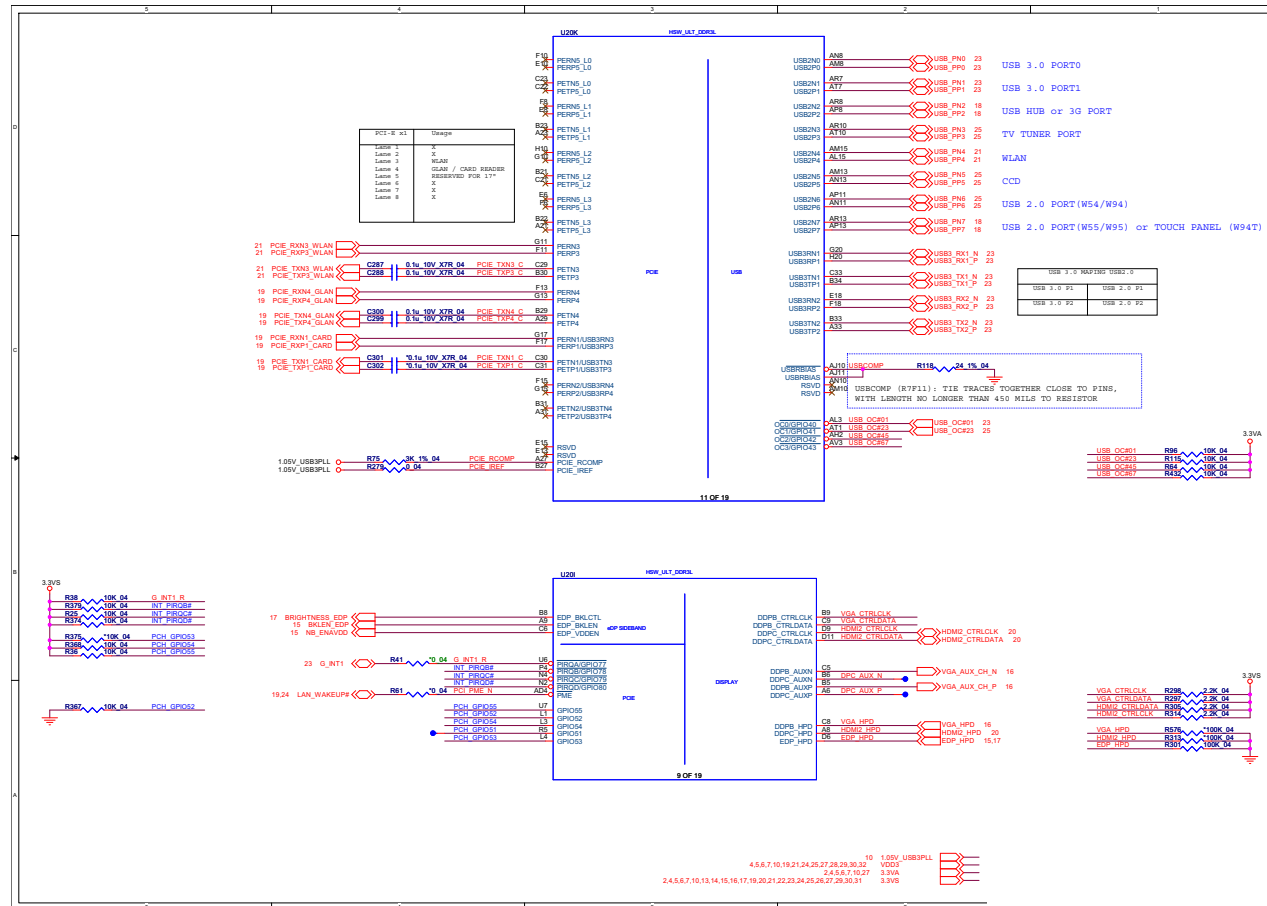
B. Schematic Diagrams

Sheet 7 of 39
Processor 6/7



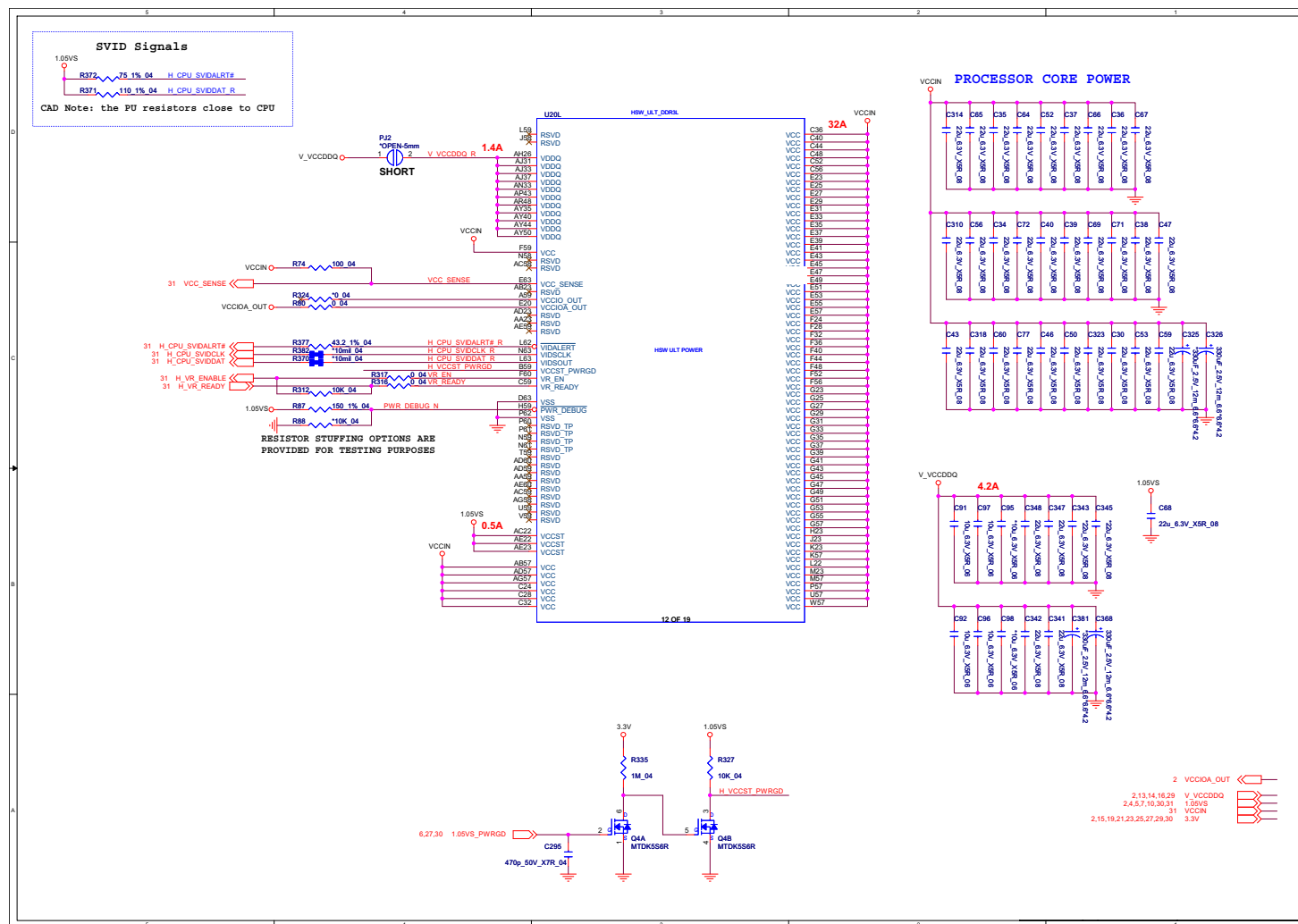
Processor 7/7 B - 9

B.Schematic Diagrams

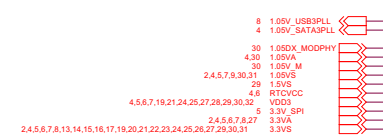


Power 1

Sheet 9 of 39
Power 1

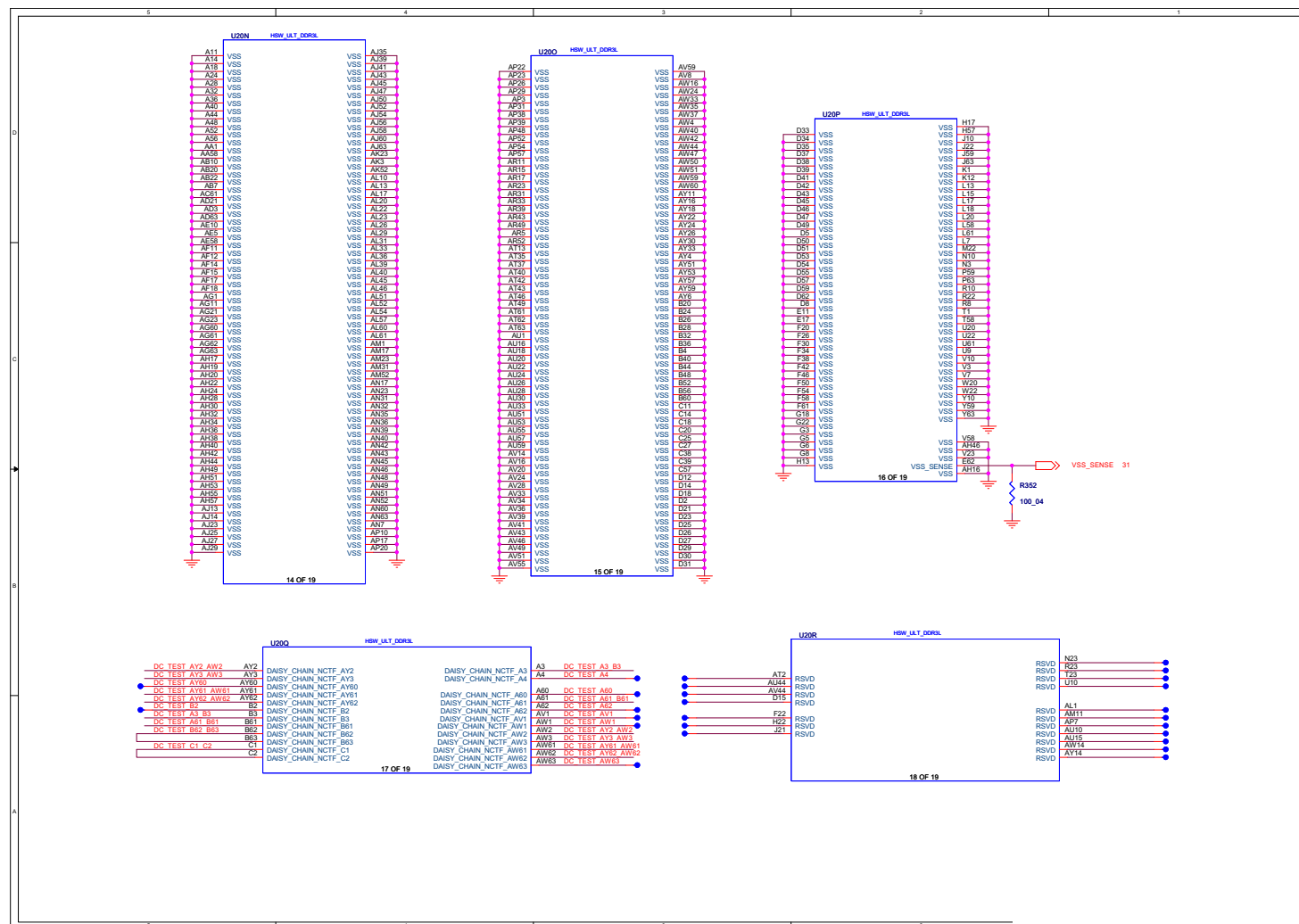


Sheet 10 of 39
Power 2

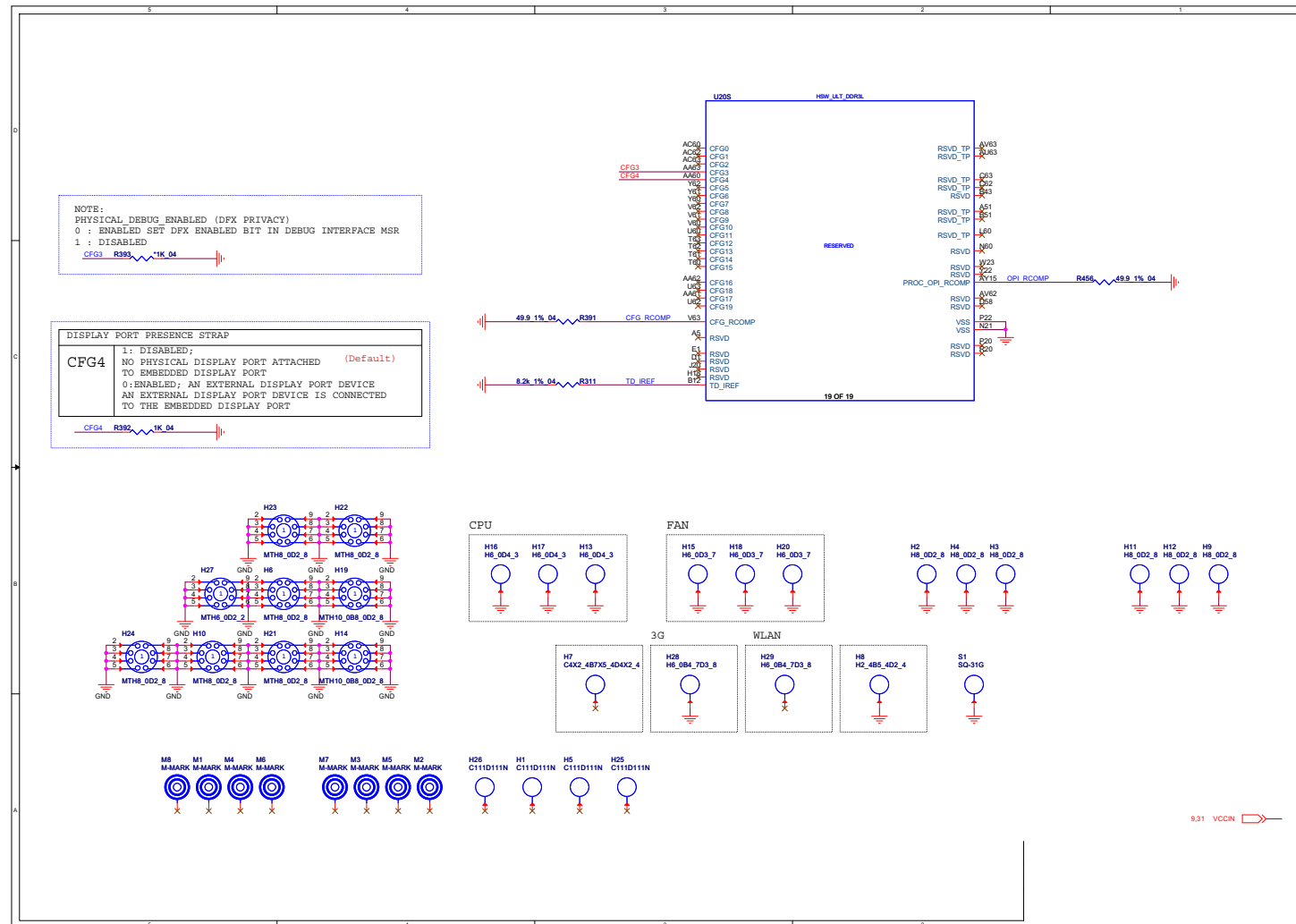


Power VSS

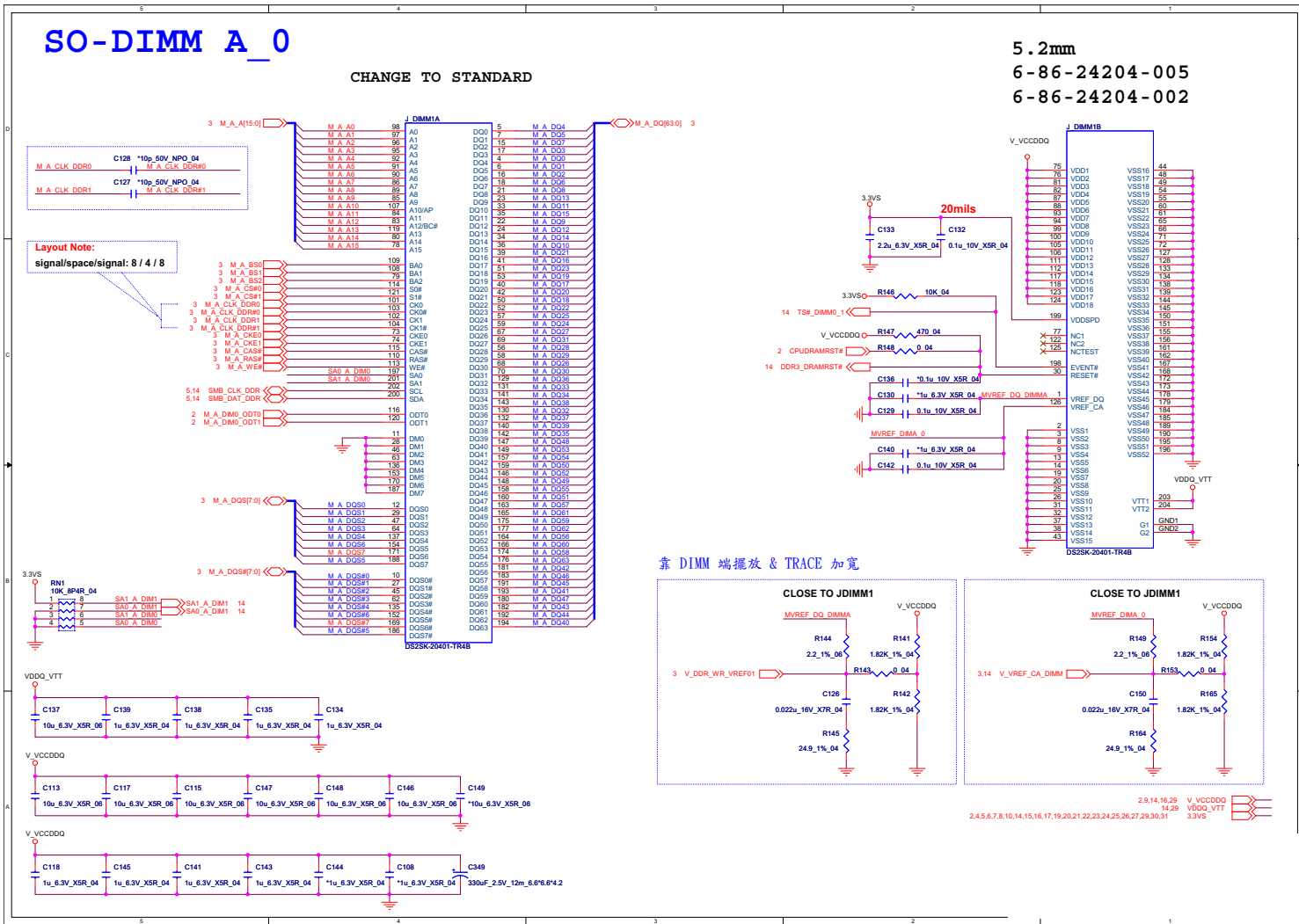
B. Schematic Diagrams



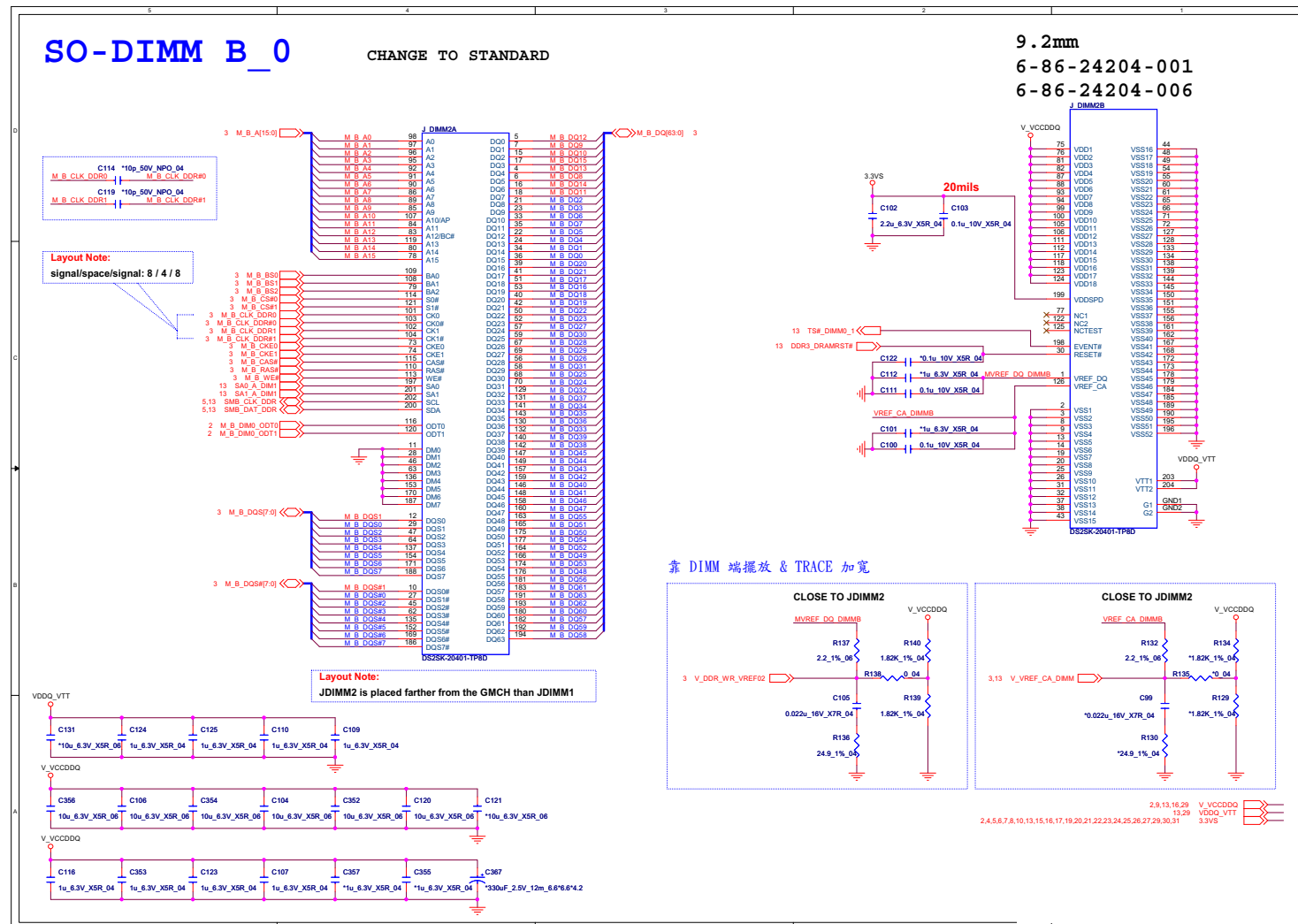
RSVD



DDR3 SO-DIMM A



DDR3 SO-DIMM B B - 15

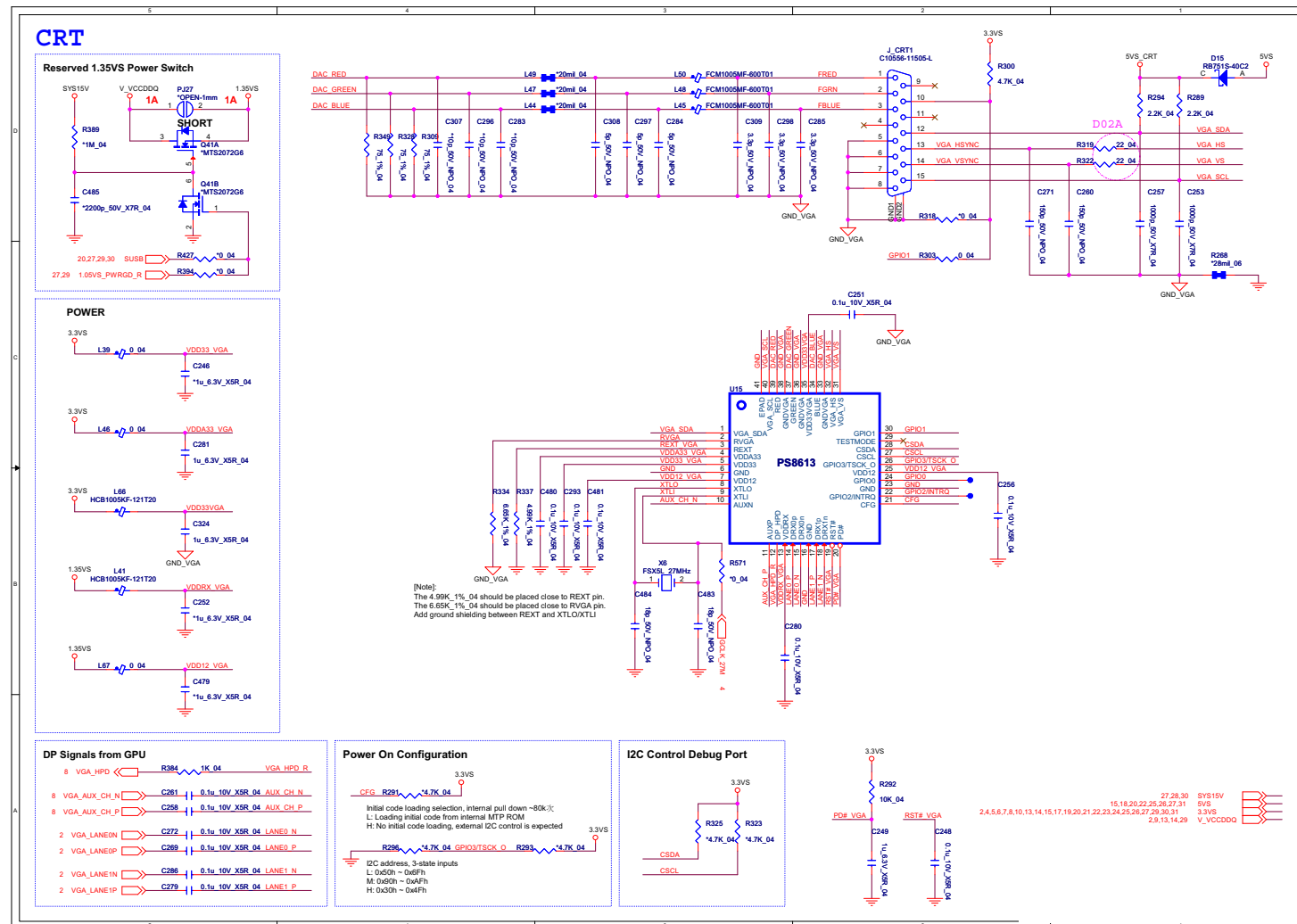


Panel, Inverter

B.Schematic Diagrams



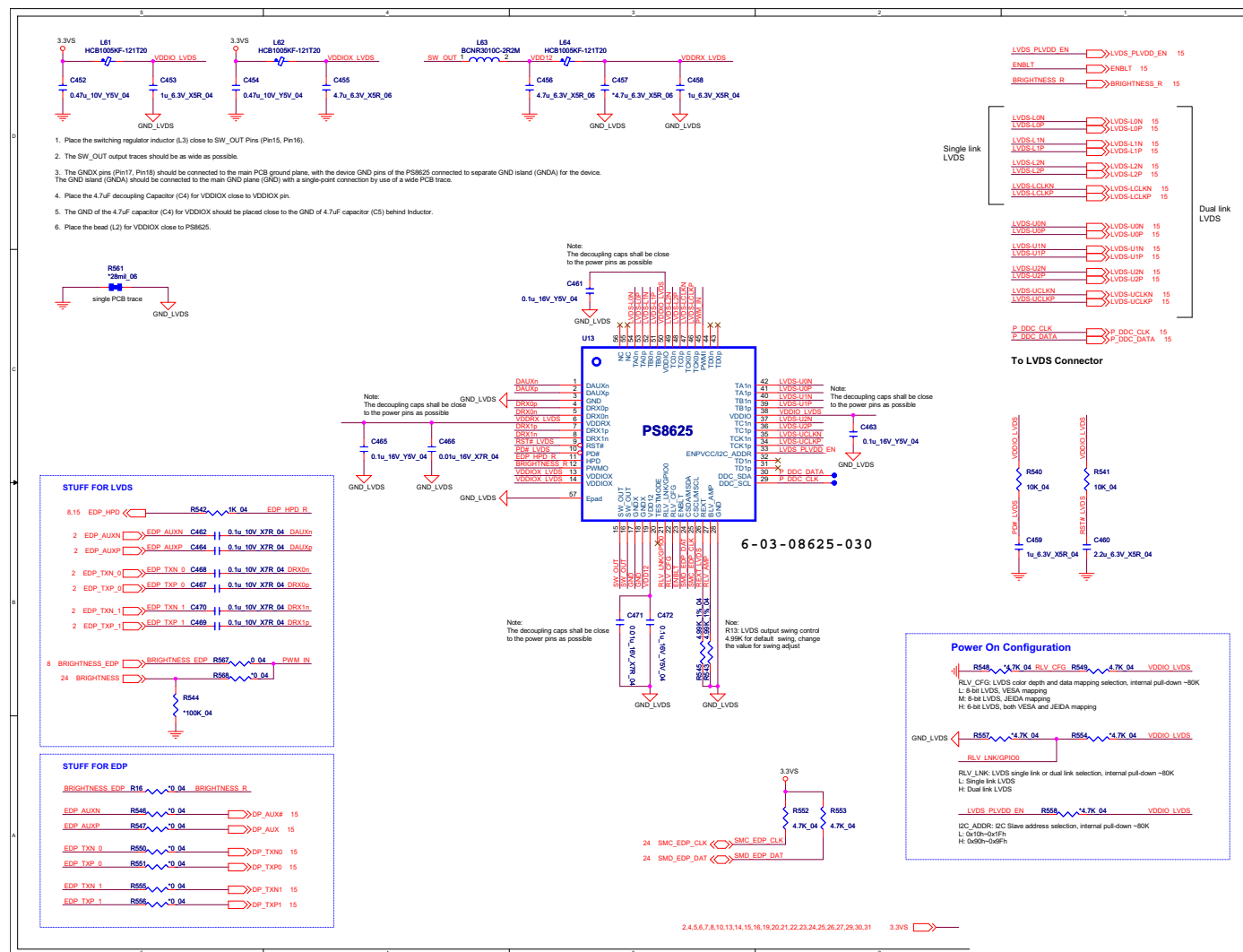
VGA PS8613

Sheet 16 of 39
VGA PS8613

LVDS PS8625

Sheet 17 of 39
LVDS PS8625

B. Schematic Diagrams



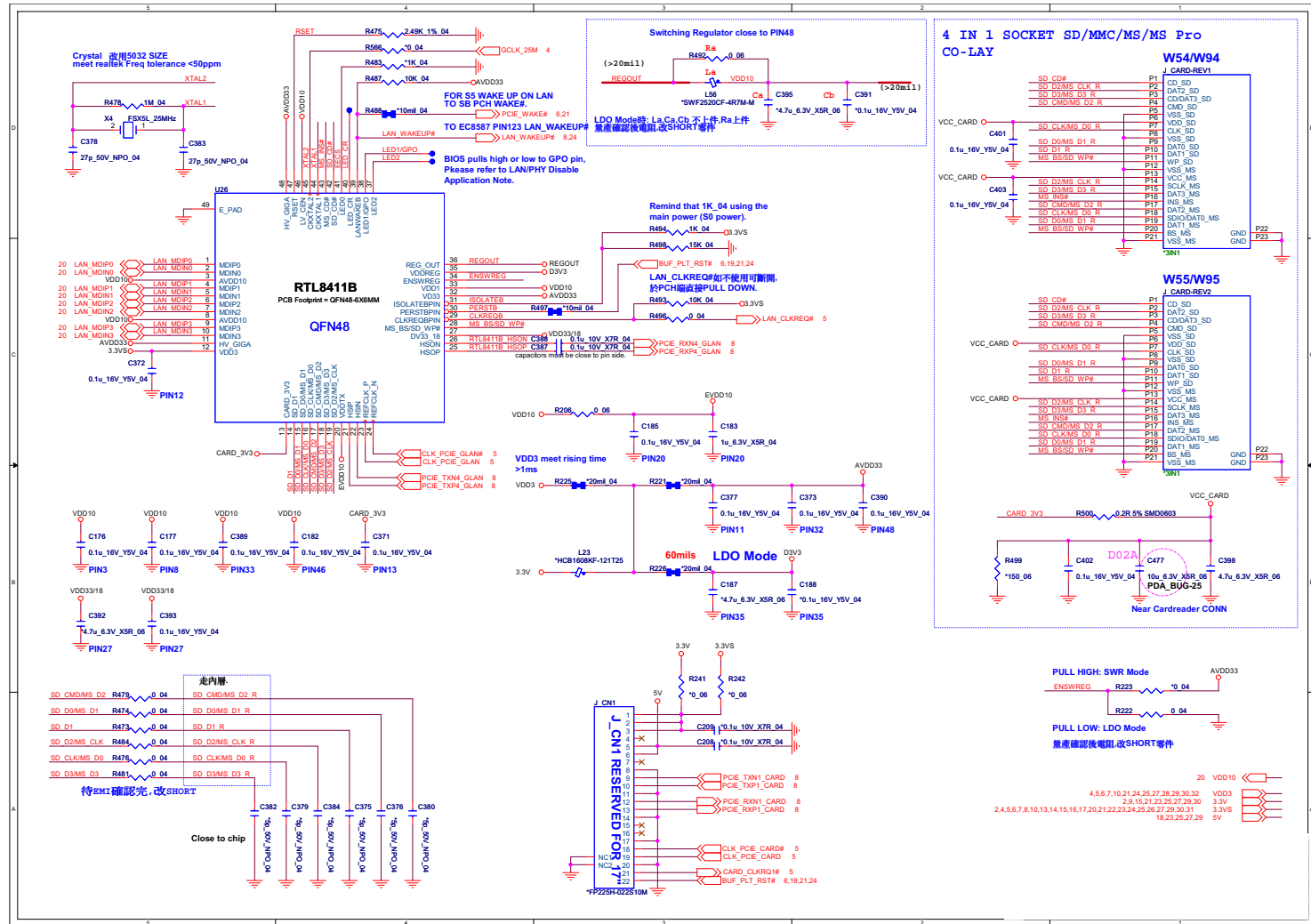
USB HUB AU6259-JGF



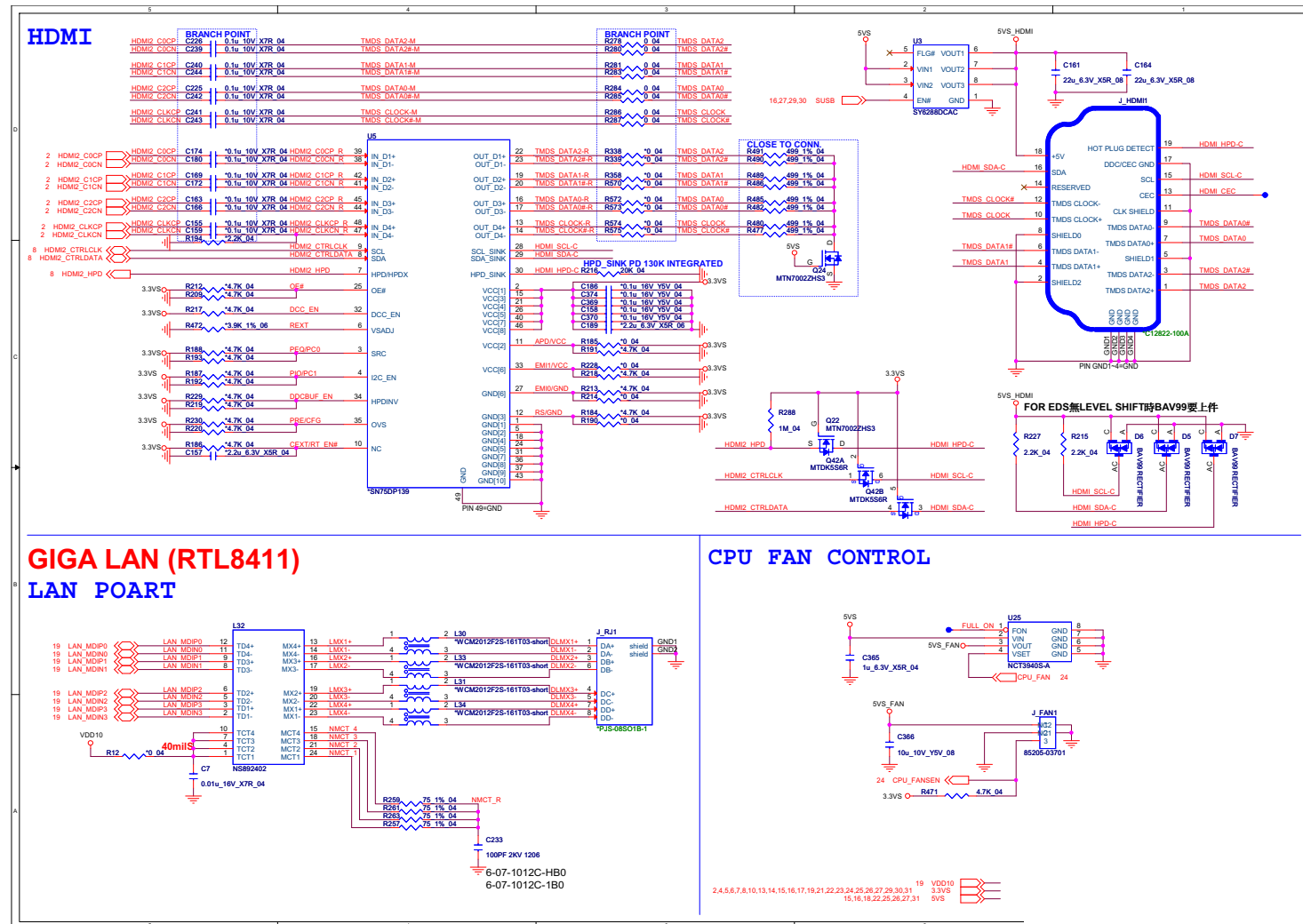
Schematic Diagrams

Card Reader & LAN RTL8411B

Sheet 19 of 39
Card Reader & LAN
RTL8411B



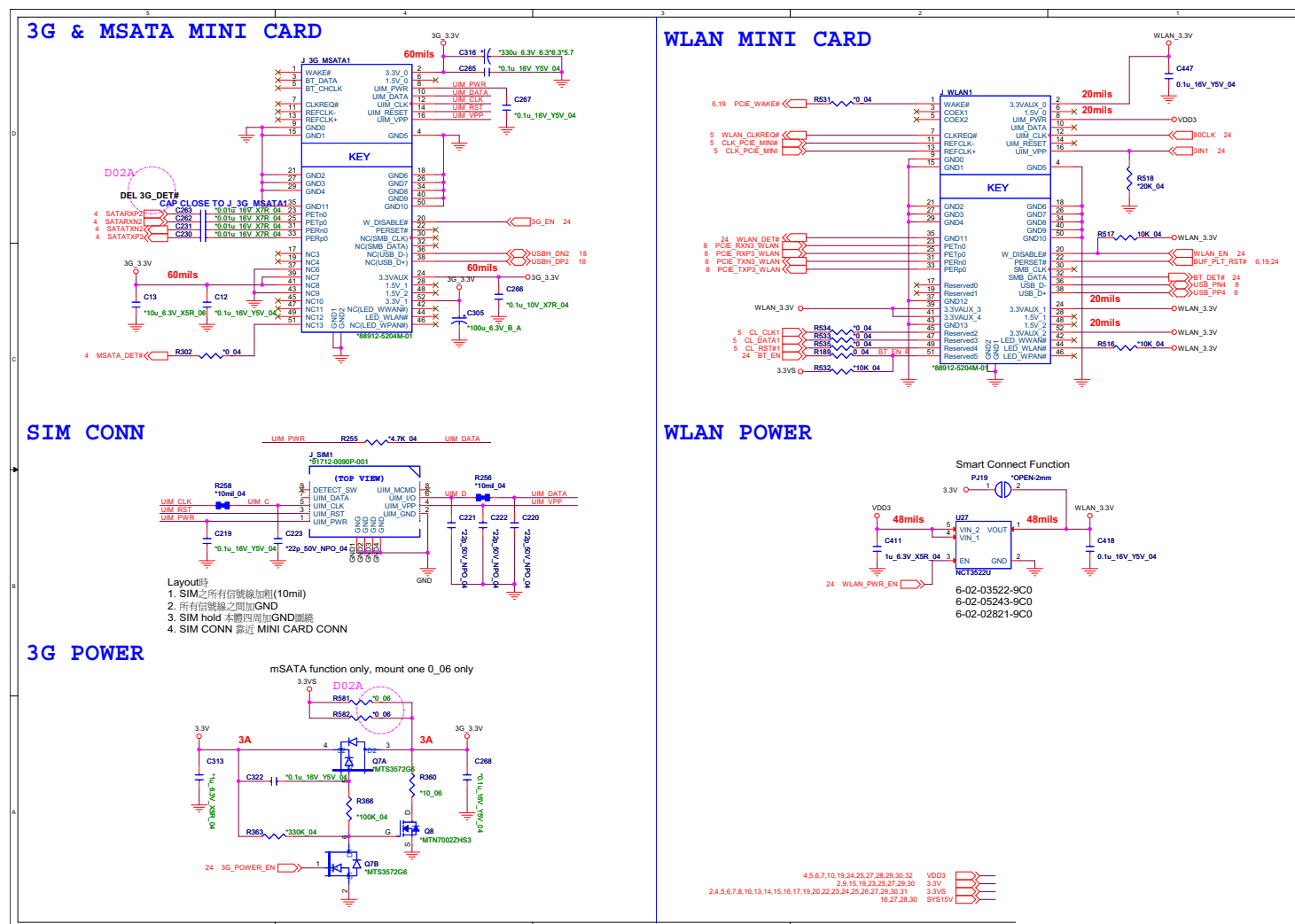
HDMI, RJ45, Fan



Sheet 20 of 39
HDMI, RJ45, Fan

WLAN, 3G, MSATA

Sheet 21 of 39
WLAN, 3G, MSATA



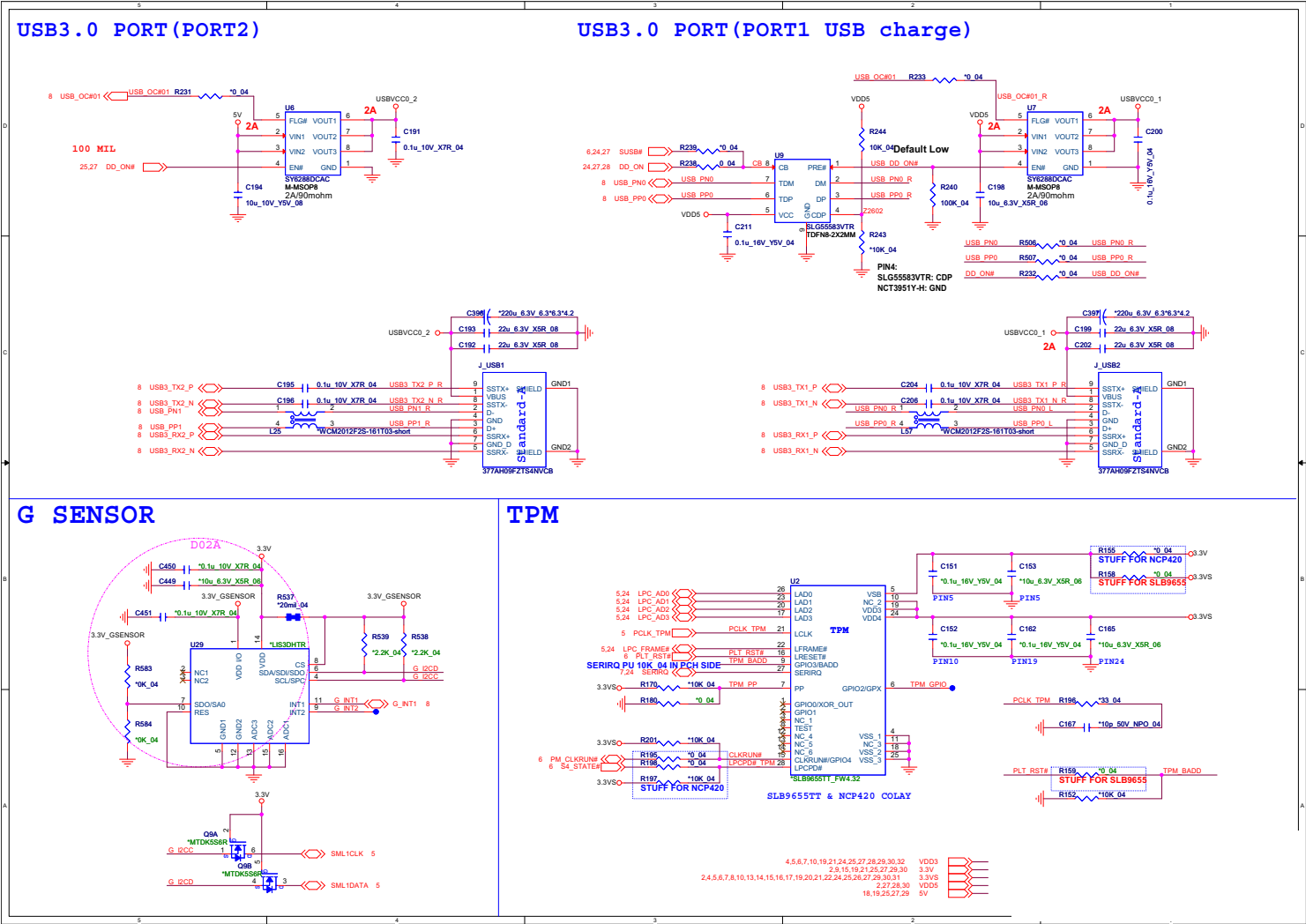
Sheet 22 of 39
Audio Codec
ALC269



Schematic Diagrams

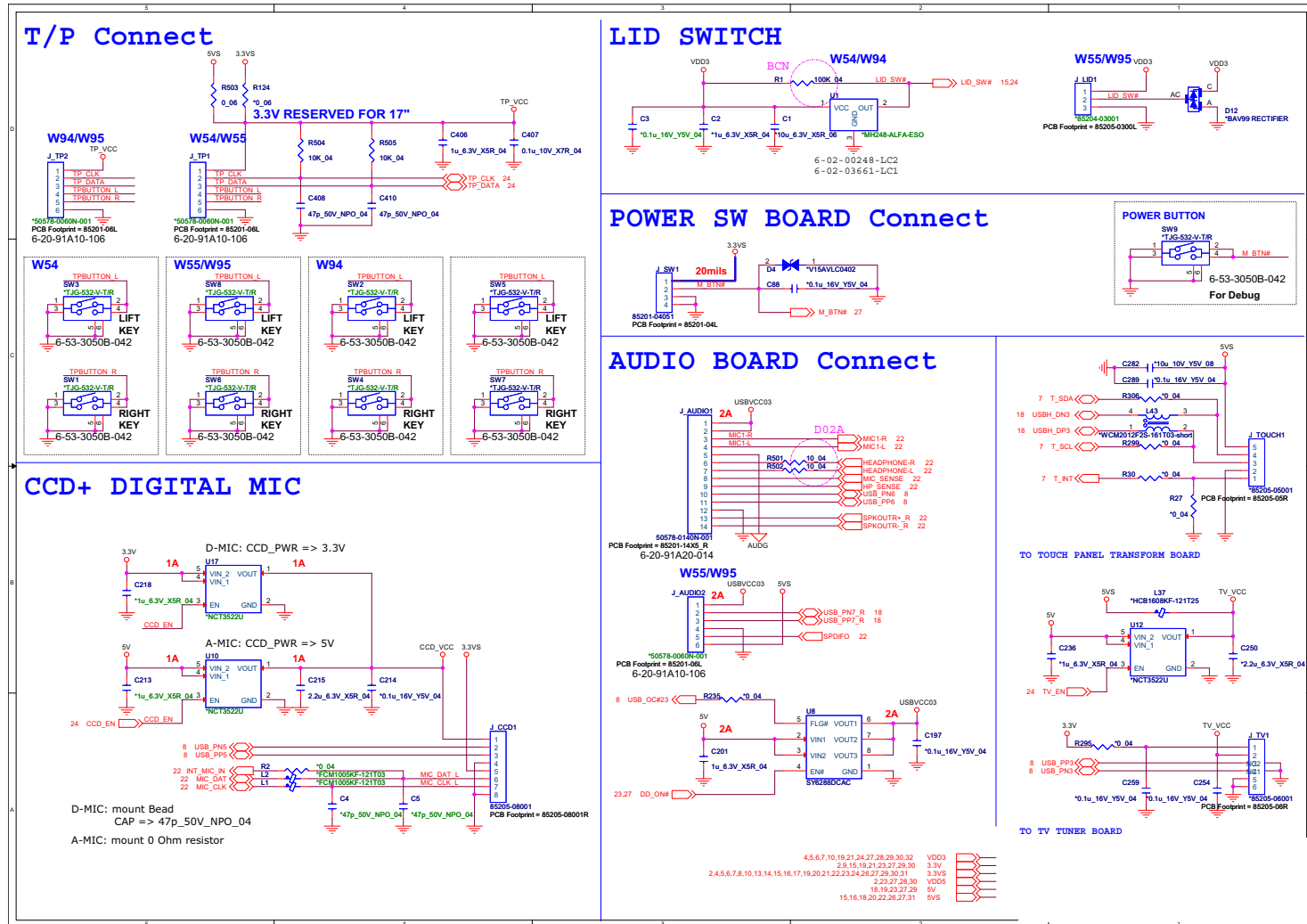
USB 3.0, G-Sensor, TPM

Sheet 23 of 39
USB 3.0, G-Sensor,
TPM



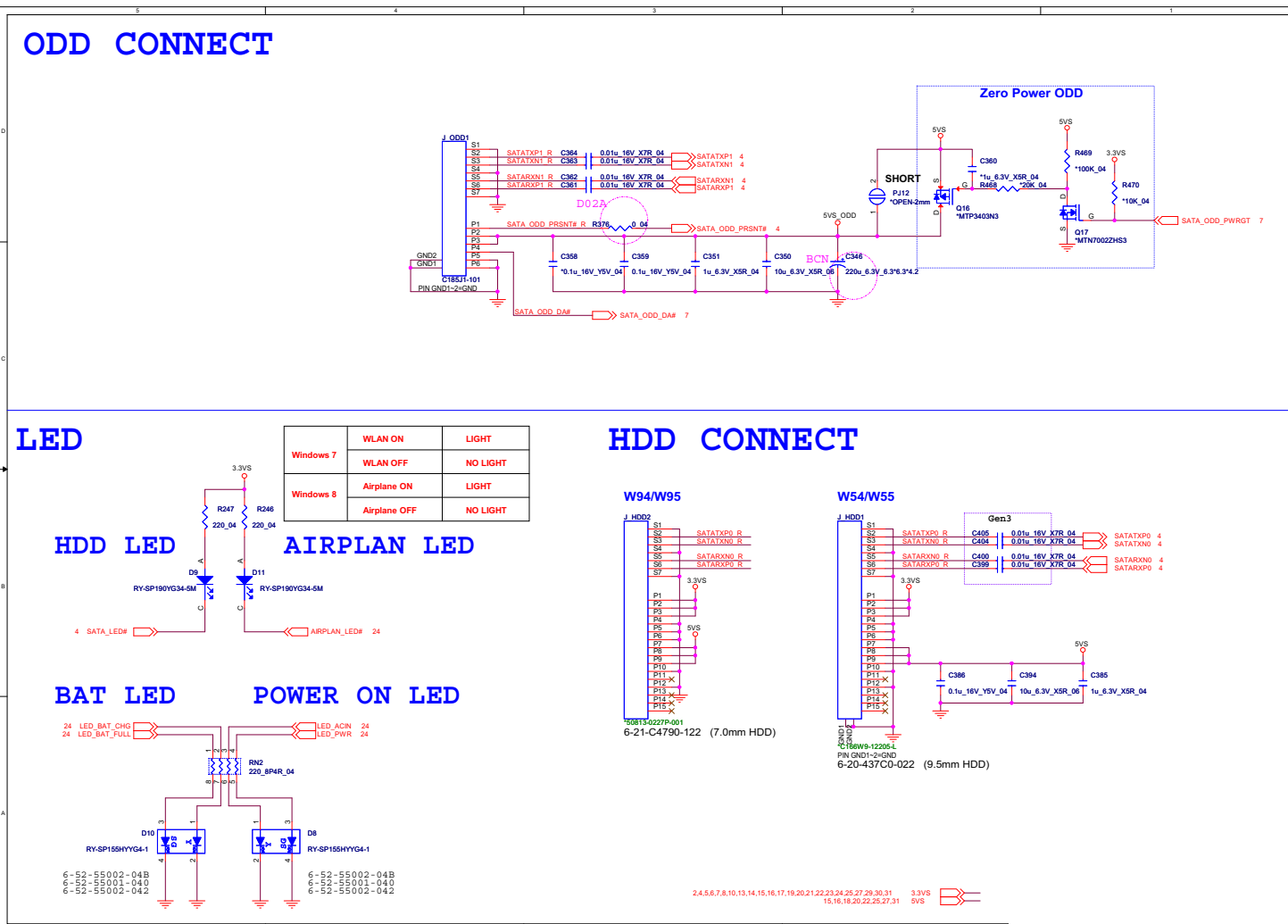
Sheet 24 of 39
HDD, CCD, TPM,
Power Con

CCD, MIC, LID, I/O Connector



Sheet 25 of 39
CCD, MIC, LID,
I/O Connector

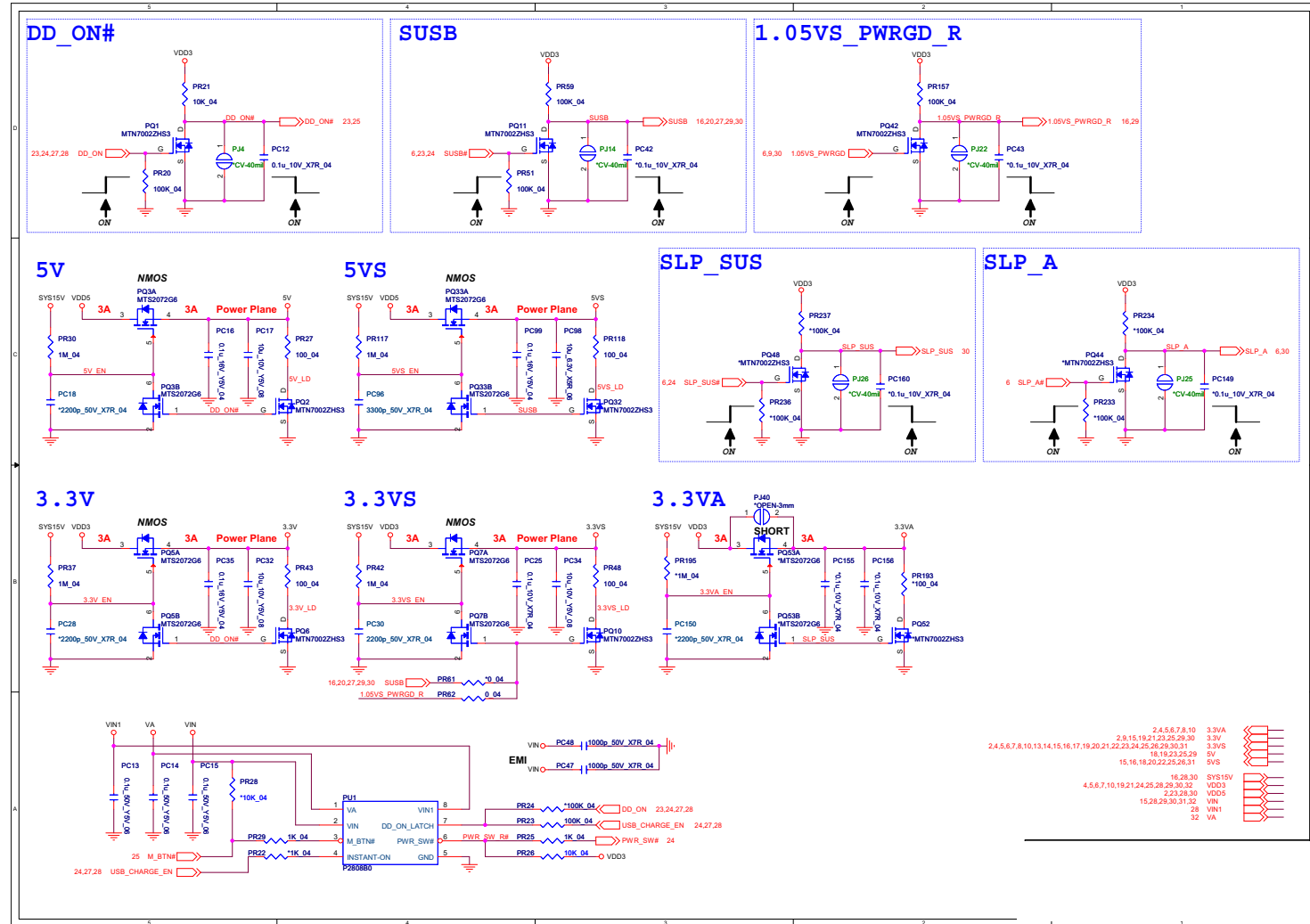
HDD, ODD, LED



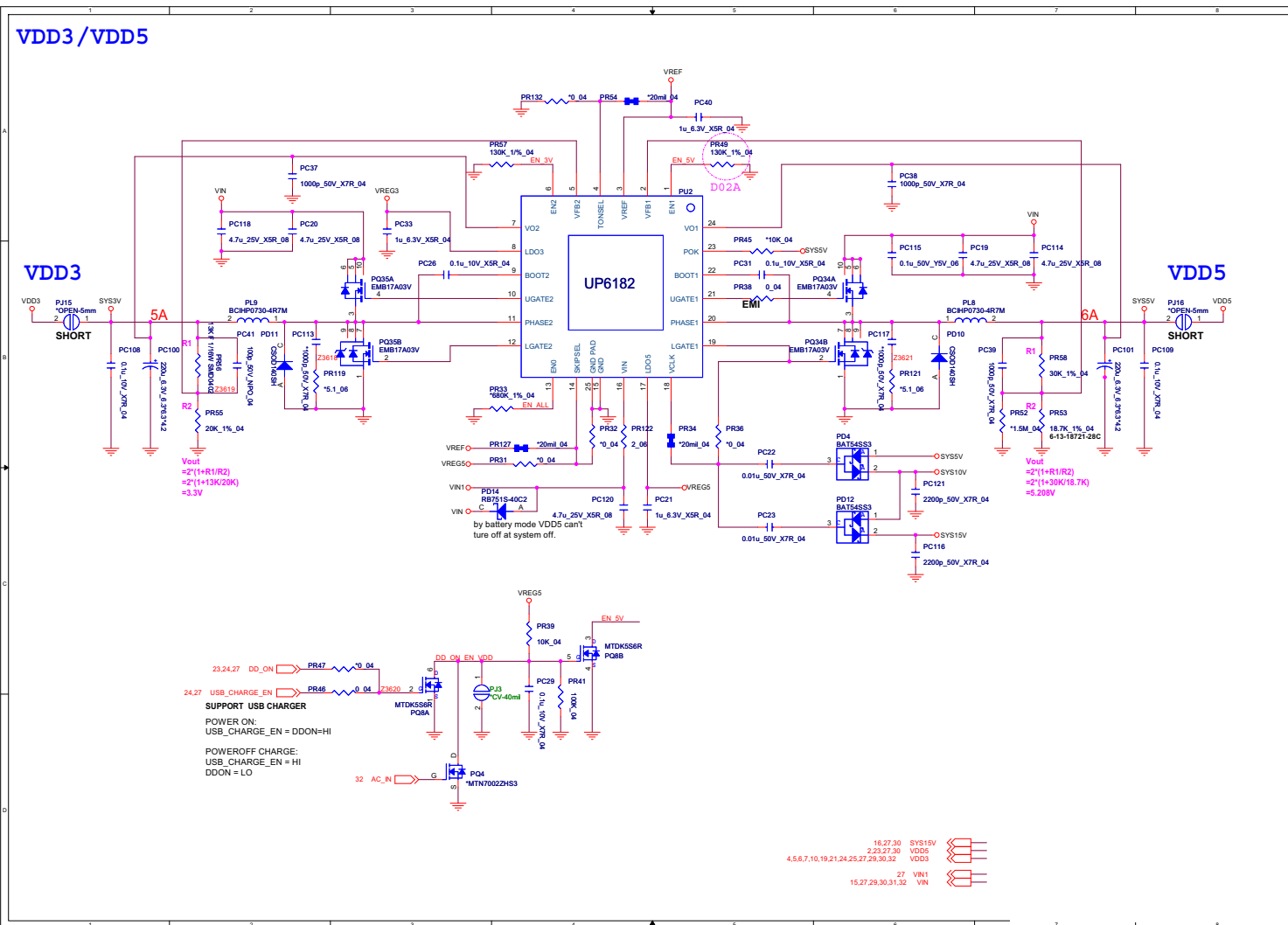
Sheet 26 of 39
HDD, ODD, LED

System Power

Sheet 27 of 39
System Power



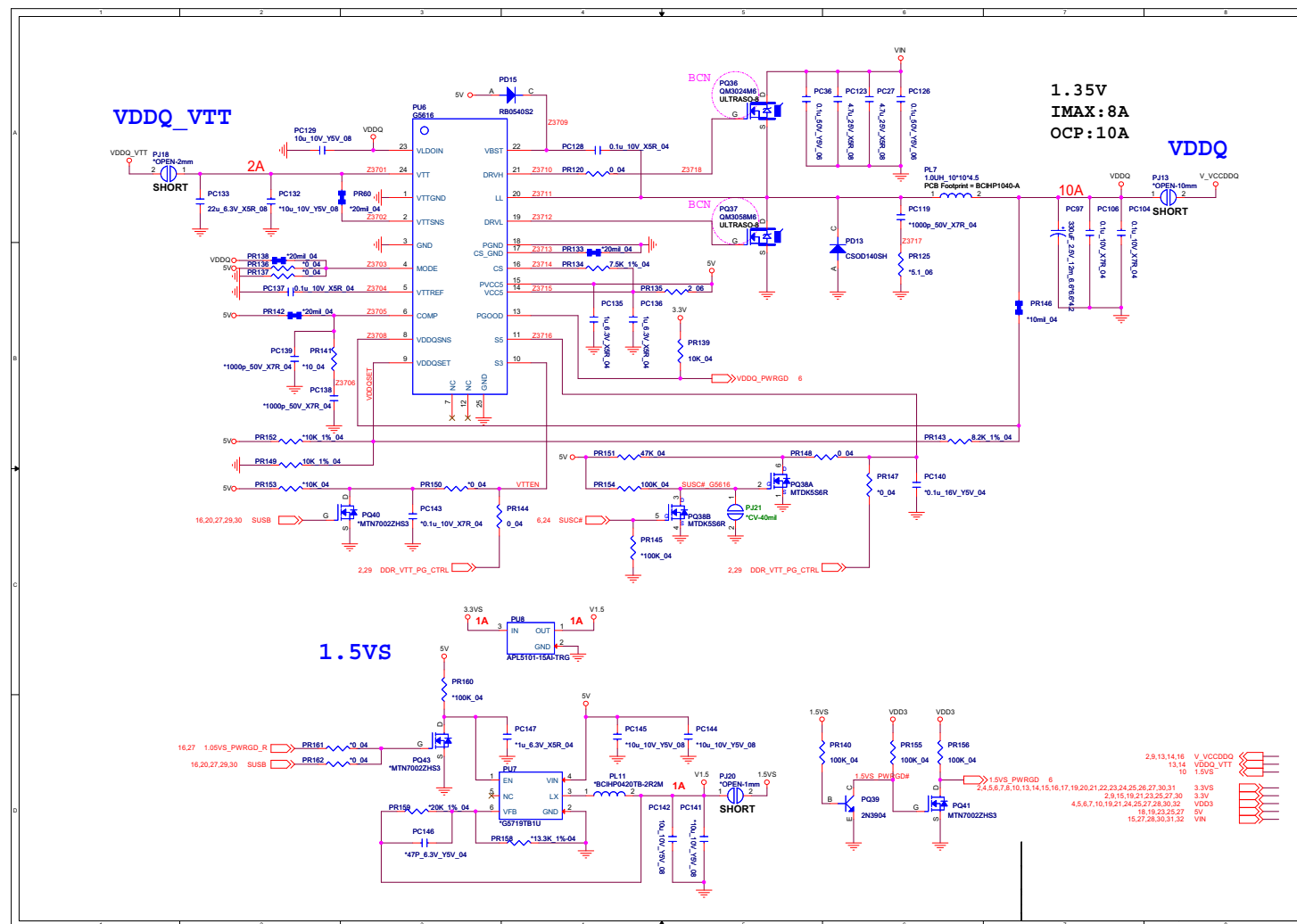
VDD3, VDD5



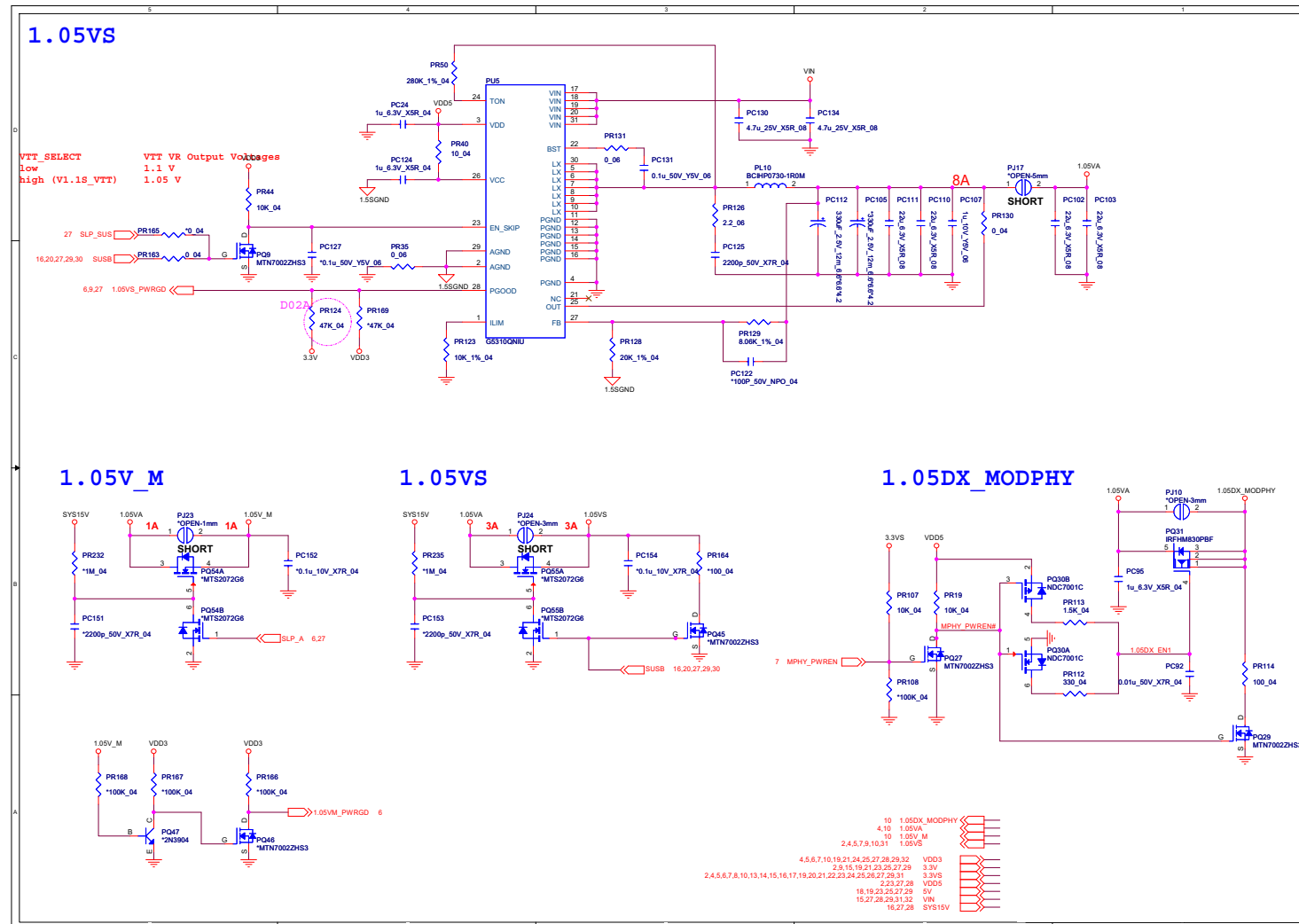
Sheet 28 of 39
VDD3, VDD5

ALC269Q, VT1802S

Sheet 29 of 39
VVDQ, VDDQ_VTT,
1.5VS



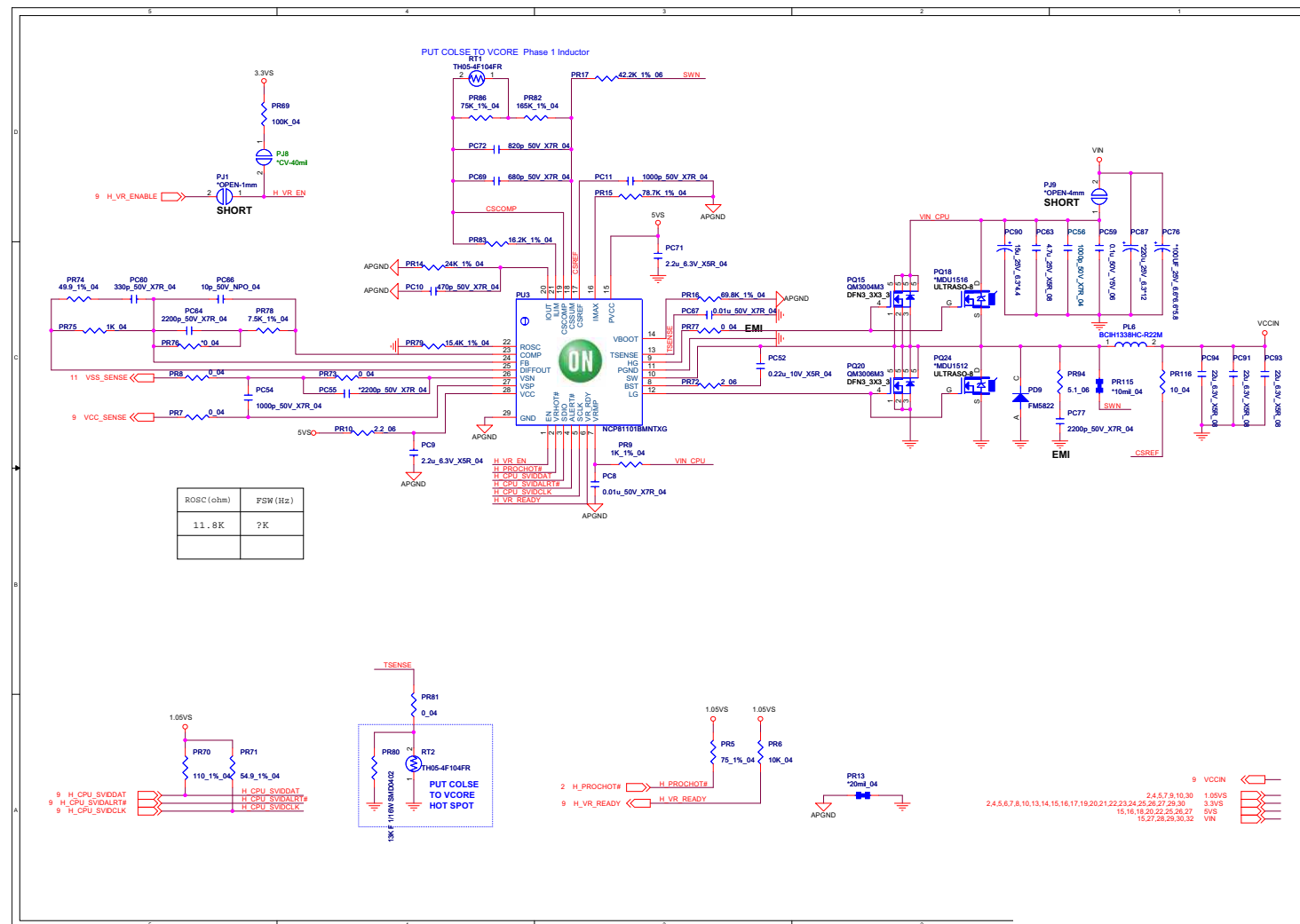
1.05V Series B - 31



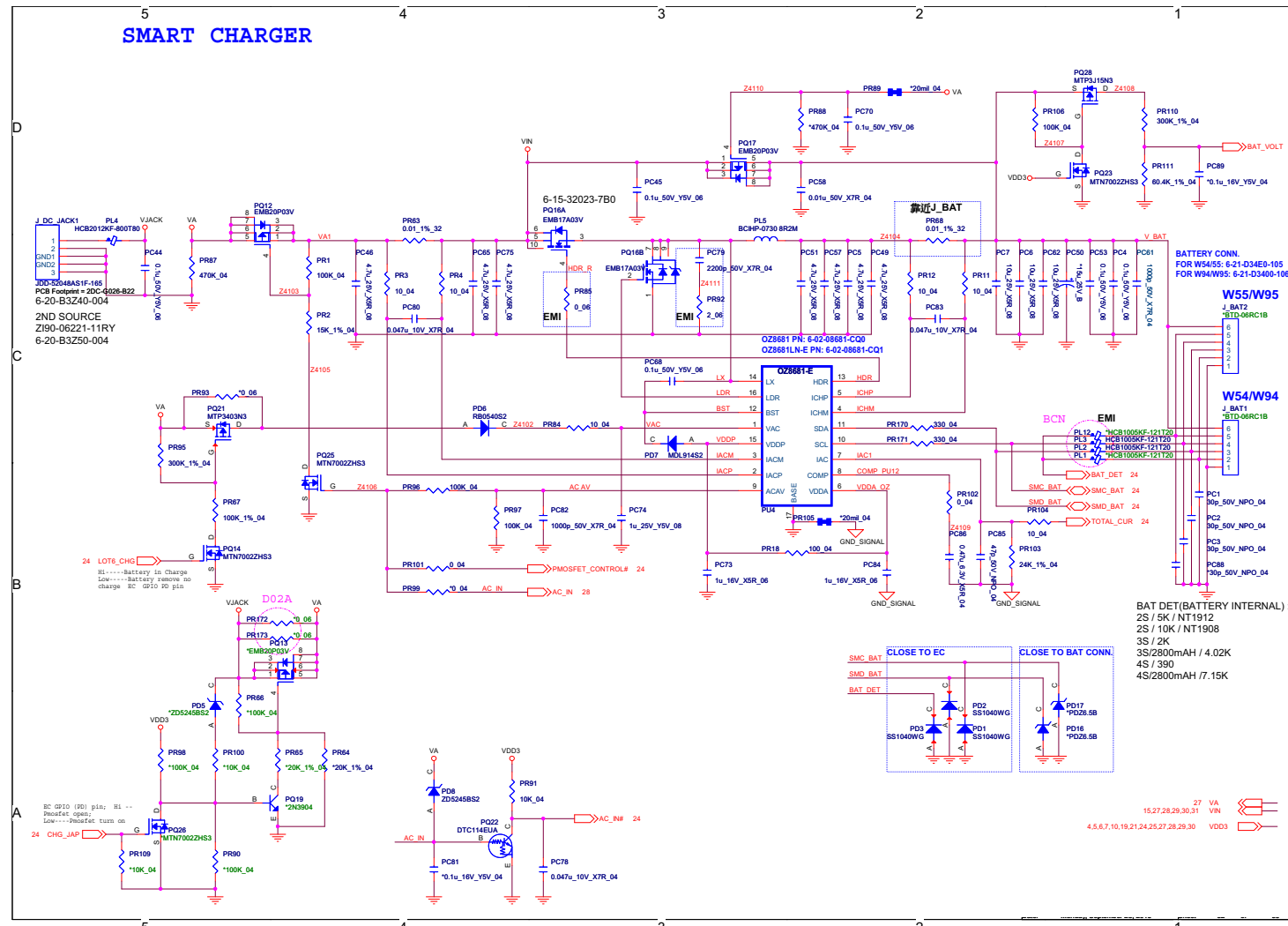
VCore

B. Schematic Diagrams

Sheet 31 of 39
VCore

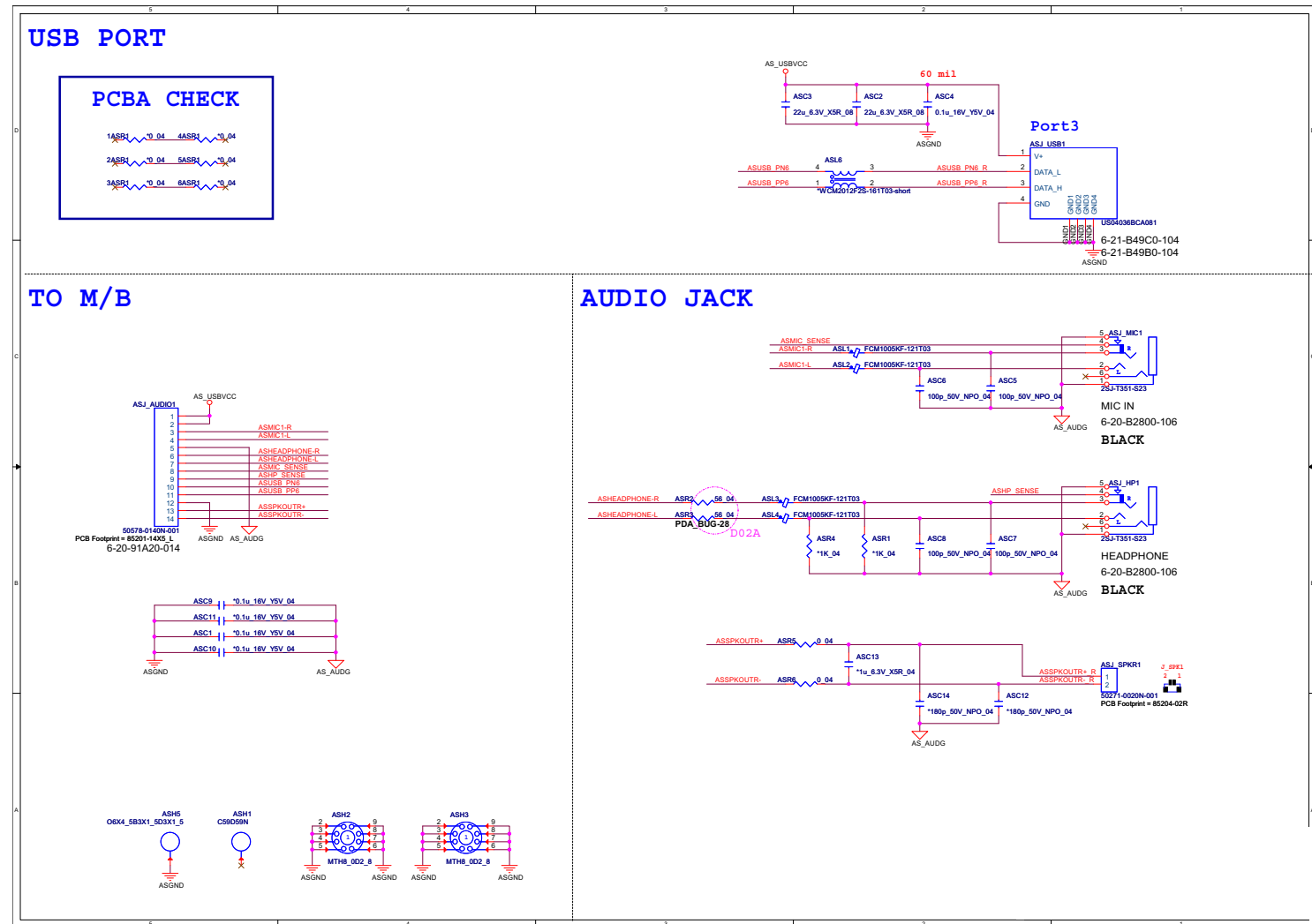


Charger, DC In B - 33



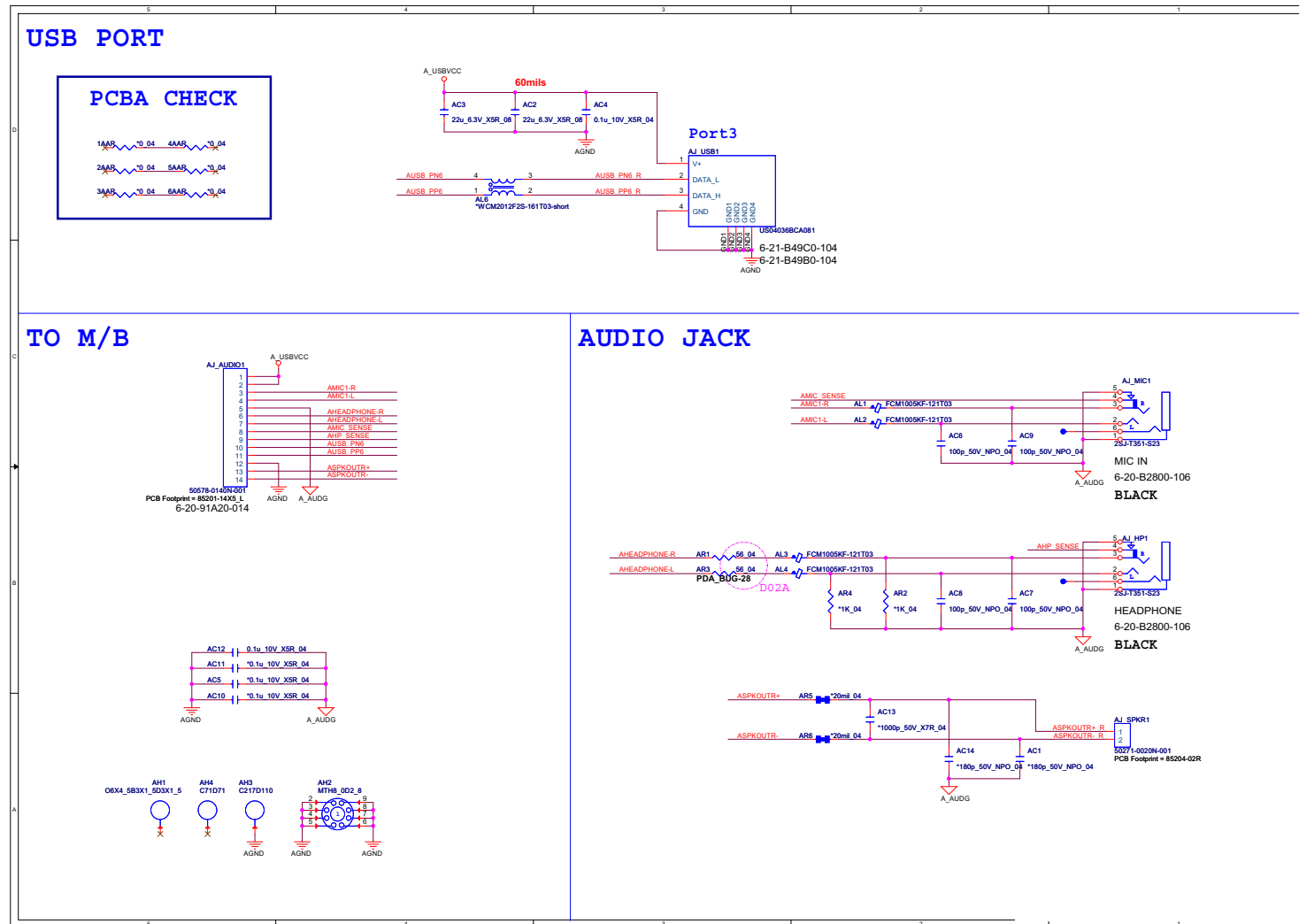
Audio Board

Sheet 33 of 39
Audio Board

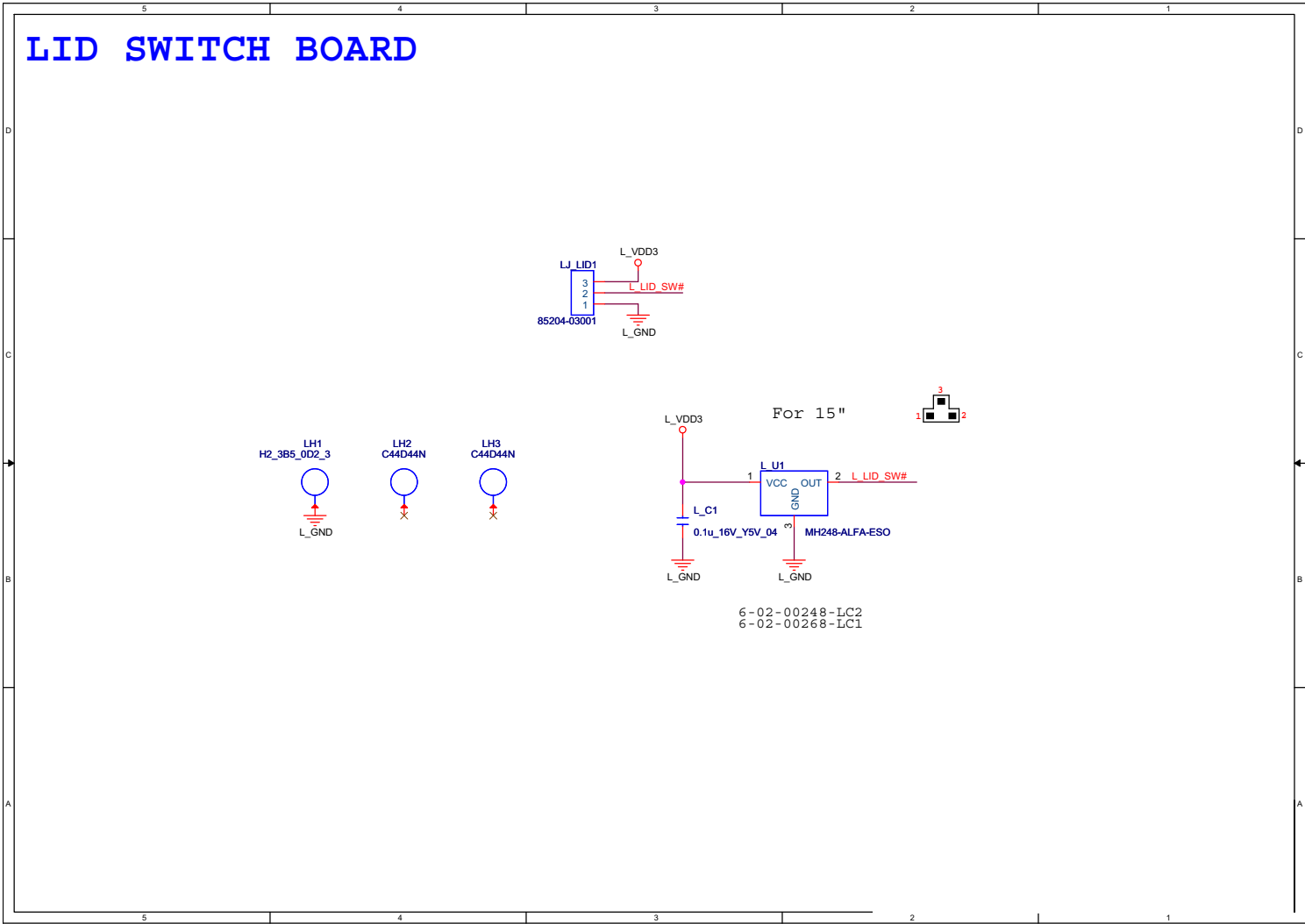


Audio Board

Sheet 34 of 39
Audio Board



LID Switch Board



Sheet 35 of 39
LID Switch Board

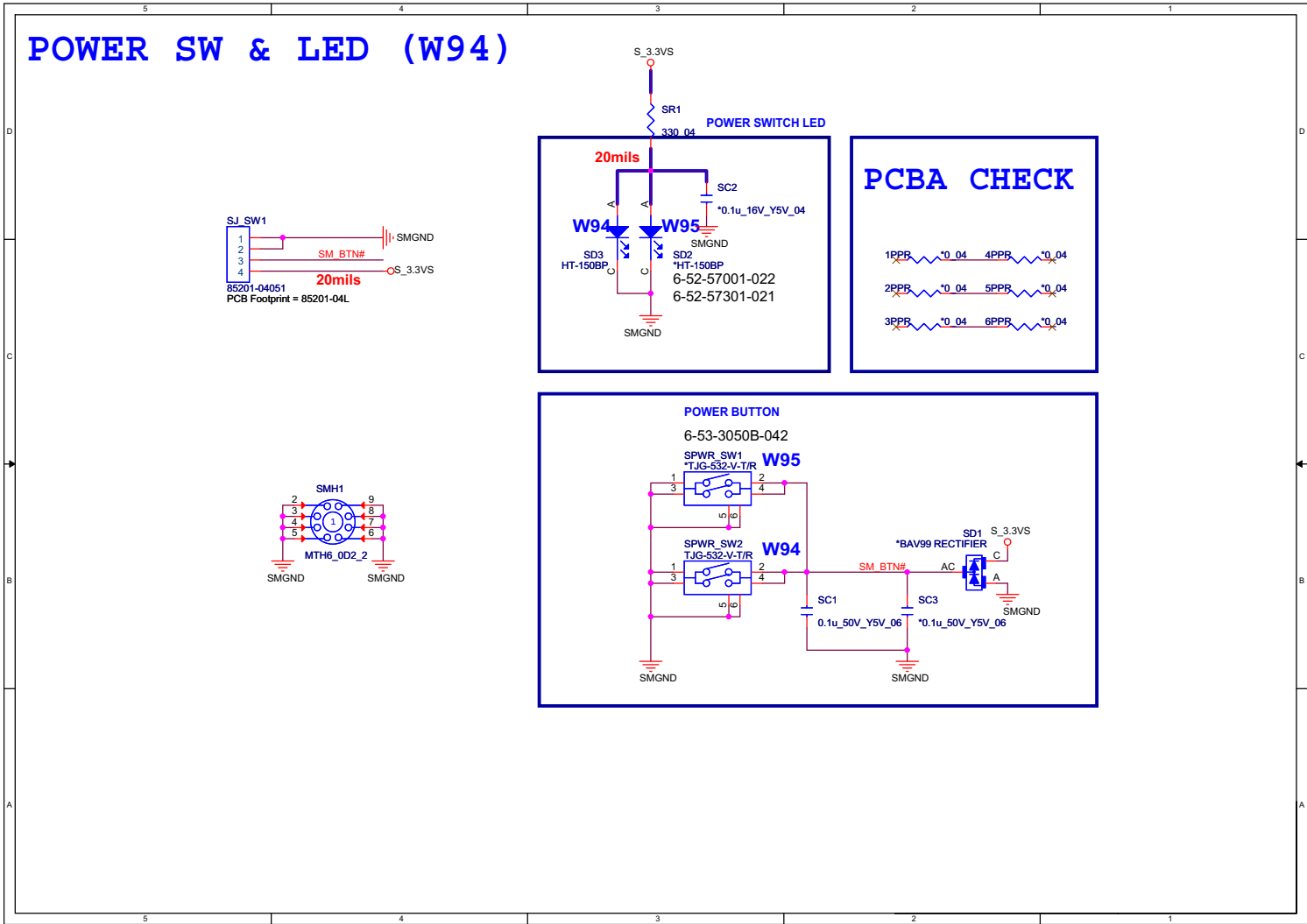
Power Switch Board B - 37



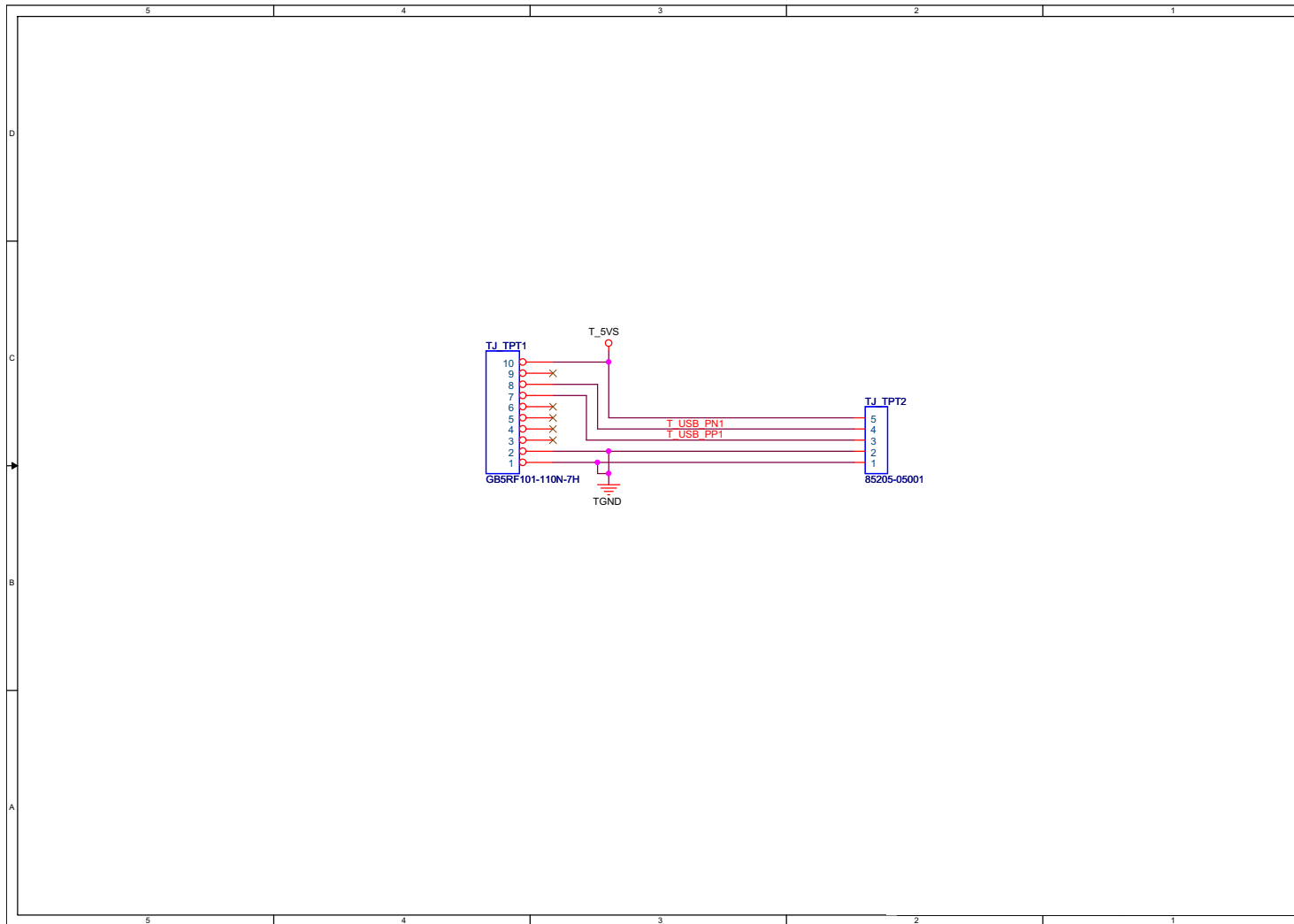
Schematic Diagrams

Power Switch Board

Sheet 37 of 39
Power Switch
Board



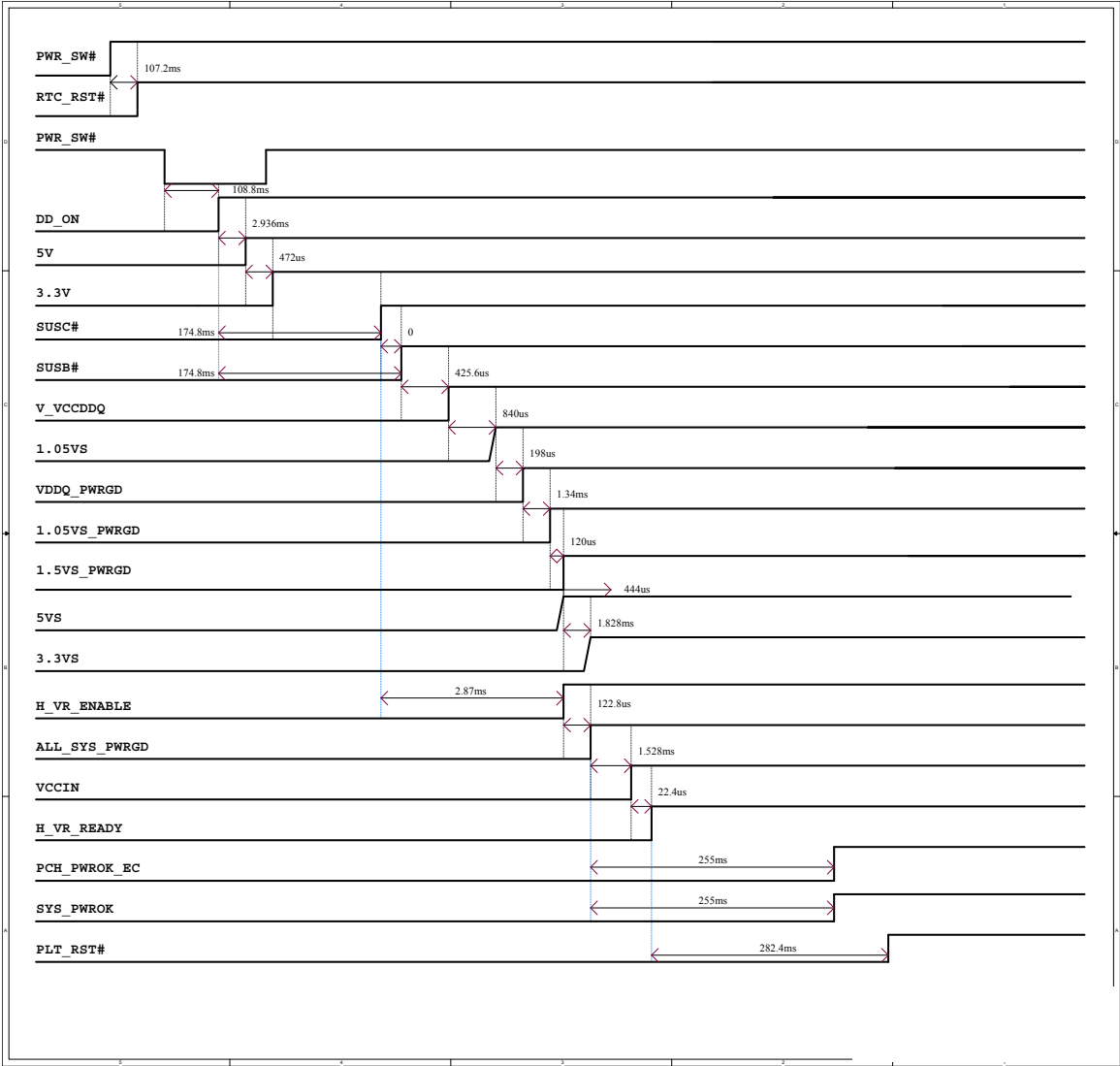
Touch Panel Board



Sheet 38 of 39
Touch Panel Board

Power On Sequence

Sheet 39 of 39
Power On Sequence



Appendix C: Updating the FLASH ROM BIOS

To update the FLASH ROM BIOS, you must:

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

Download the BIOS

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

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

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

Set the computer to boot from the external drive

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



BIOS Version

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

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

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

BIOS Update

Use the flash tools to update the BIOS

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

C:\> Flash.bat

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

Restart the computer (booting from the HDD)

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

Your computer is now running normally with the updated BIOS

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