

SERVICE MANUAL

M540N/M545N/M550N/M555N

notebook



Notebook Computer

M540/M545N/M550/M555N

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 *M540/M545N/M550/M555N* series notebook PC.

The following information is included:

Chapter 1, Introduction, provides general information about the location of system elements and their specifications.

Chapter 2, Disassembly, provides step-by-step instructions for disassembling parts and subsystems and how to upgrade elements of the system.

Appendix A, Part Lists

Appendix B, Schematic Diagrams

IMPORTANT SAFETY INSTRUCTIONS

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

1. Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
5. This product is intended to be supplied by a Listed Power Unit (DC Output 20V, 3.25A (**65W**) minimum AC/DC Adapter, **OR** by a DC Output 20V, 4.5A (**90W**) minimum AC/DC Adapter if you are using the **optional port replicator**.

CAUTION

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

**TO REDUCE THE RISK OF FIRE, USE ONLY NO. 26 AWG OR LARGER,
TELECOMMUNICATION LINE CORD
This Computer's Optical Device is a Laser Class I Product**

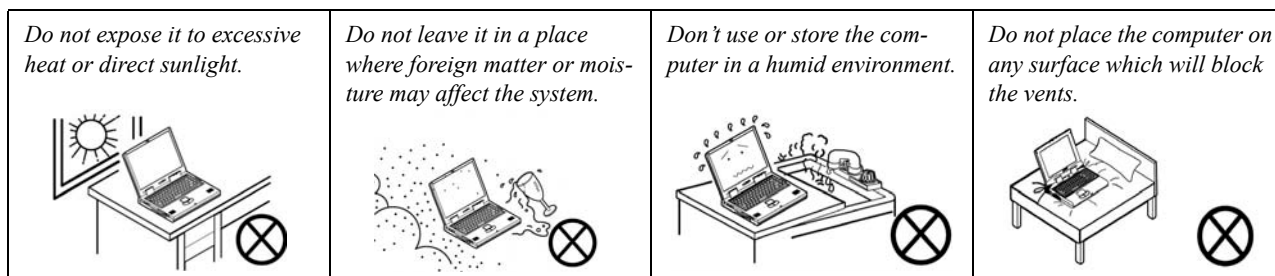
Instructions for Care and Operation

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

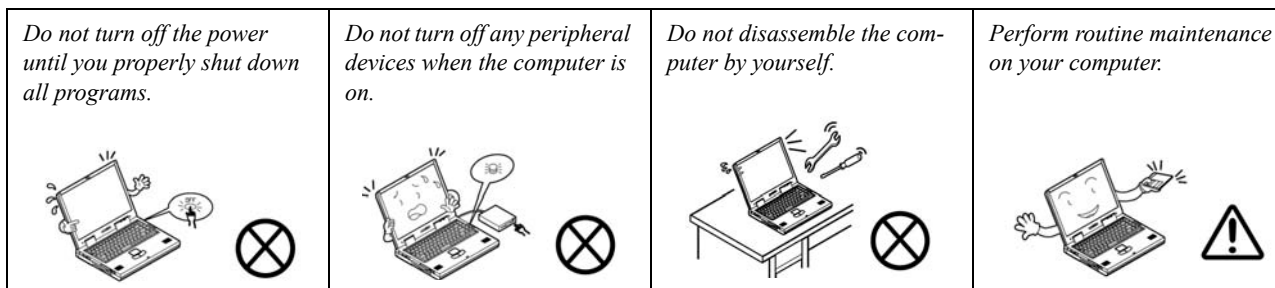
1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.



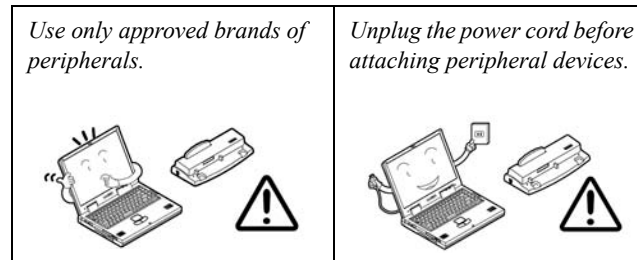
2. **Keep it dry, and don't overheat it.** Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.



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



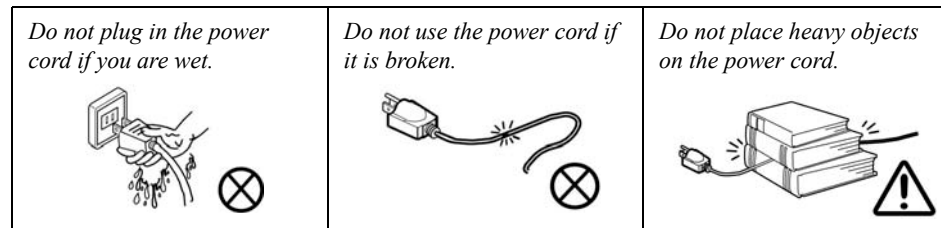
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



Power Safety

The computer has specific power requirements:

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



Power Safety Warning

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

Battery Precautions

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



Battery 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.

Related Documents

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

User's Manual on CD

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

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Chapter 1: Introduction

Overview

This manual covers the information you need to service or upgrade the *M540/M545N/M550/M555N* series notebook computer. Information about operating the computer (e.g. getting started, and the *Setup* utility) is in the *User's Manual*. Information about drivers (e.g. VGA & audio) is also found in *User's Manual*. That manual is shipped with the computer.

Operating systems (e.g. *DOS*, *Windows 9x*, *Windows NT 4.0*, *Windows 2000*, *Windows XP*, *OS/2 Warp*, *UNIX*, etc.) have their own manuals as do application software (e.g. word processing and database programs). If you have questions about those programs, you should consult those manuals.

The *M540/M545N/M550/M555N* series notebook is designed to be upgradeable. See *“Disassembly” on page 2 - 1* for a detailed description of the upgrade procedures for each specific component. Please note the warning and safety information indicated by the “” symbol.

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

System Specifications

Feature	Specification	
Processor	Intel® Core™ Duo Processor (478-pin) Micro-FC-PGA Package T2300/ T2400/ T2500/ T2600/ T2700	65nm (65 Nanometer) Process Technology 2MB On-die L2 Cache & 667MHz FSB 1.66/ 1.83/ 2.0/ 2.16/ 2.33 GHz
	Intel® Core™ Solo Processor (478-pin) Micro-FC-PGA Package T1300/ T1400	65nm (65 Nanometer) Process Technology 2MB On-die L2 Cache & 667MHz FSB 1.66/ 1.83 GHz
	Intel® Celeron® M Processor (478-pin) Micro-FCPGA Package 410/ 420/ 430	65nm (65 Nanometer) Process Technology 1MB On-die L2 Cache & 533MHz FSB 1.46/ 1.60/ 1.73 GHz
Core Logic	Intel 945GM + ICH7-M	
Memory	Two 200 Pin SO-DIMM Sockets Supporting DDRII (DDR2) 533 / 667 MHz 128-bit Wide DDRII (DDR2) Data Channel Memory Expandable up to 2GB (256/ 512/ 1024 MB DDRII Modules) (Note: Do Not Use Other Module Types)	
Security	Security (Kensington® Type) Lock Slot	BIOS Password
BIOS	One 4Mb Flash ROM	Phoenix™ BIOS, Plug and Play
LCD	<u>M550N/M555N Computers:</u> 15.0" XGA (1024*768) Flat Panel TFT OR 15.0" SXGA+ (1400*1050) Flat Panel TFT	<u>M540N/M545N Computers:</u> 14.0" WXGA (1280*768) Flat Panel TFT
	Video Adapter	
Storage	Intel 945GM Integration Supports Dynamic Video Memory Technology (DVMT) 3.0 - up to 128MB of Video Memory dynamically allocated from system memory where needed Supports Analog Monitor Pixel Resolution up to 1600 * 1200 at 85Hz Supports DirectX 9.1	
	One Changeable 12.7mm(h) Optical Device (CD/DVD) Type Drive (see " Optional " on page 4 for drive options) Easy Changeable 2.5" 9.5 mm (h) HDD with SATA (Serial) Interface	



Feature	Specification												
Audio	Integrated AZALIA Compliant Interface (HDA) 3D Stereo Enhanced Sound System Sound-Blaster PRO™ Compatible 2 * Built-In Speakers Built-In Microphone												
Keyboard & Pointing Device	Winkey Keyboard Built-In TouchPad with Scrolling Function												
Express Card Slot	ExpressCard/34/54 Slot												
Interface	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">Three USB 2.0 Ports</td> <td style="width: 50%; border: none;">One RJ-11 Jack for Plug & Play Fax/Modem</td> </tr> <tr> <td style="border: none;">One External Monitor Port</td> <td style="border: none;">One RJ-45 Jack for 10Mb/ 100Mb/ 1000Mb Fast Ethernet</td> </tr> <tr> <td style="border: none;">One Headphone-Out Jack</td> <td style="border: none;">One Mini-IEEE 1394 Port</td> </tr> <tr> <td style="border: none;">One Microphone-In Jack</td> <td style="border: none;">One S-Video-Out Jack (supports HDTV)</td> </tr> <tr> <td style="border: none;">One Line-In Jack</td> <td style="border: none;">One DC-in Jack</td> </tr> <tr> <td style="border: none;">One S/PDIF Output Jack</td> <td></td> </tr> </table> <p>Note: External 7.1 CH Audio Output Support Configurable through Headphone, Microphone, Line-In and S/PDIF Jacks</p>	Three USB 2.0 Ports	One RJ-11 Jack for Plug & Play Fax/Modem	One External Monitor Port	One RJ-45 Jack for 10Mb/ 100Mb/ 1000Mb Fast Ethernet	One Headphone-Out Jack	One Mini-IEEE 1394 Port	One Microphone-In Jack	One S-Video-Out Jack (supports HDTV)	One Line-In Jack	One DC-in Jack	One S/PDIF Output Jack	
Three USB 2.0 Ports	One RJ-11 Jack for Plug & Play Fax/Modem												
One External Monitor Port	One RJ-45 Jack for 10Mb/ 100Mb/ 1000Mb Fast Ethernet												
One Headphone-Out Jack	One Mini-IEEE 1394 Port												
One Microphone-In Jack	One S-Video-Out Jack (supports HDTV)												
One Line-In Jack	One DC-in Jack												
One S/PDIF Output Jack													
Card Reader	Embedded 4-in-1 Card Reader (MS/ MS PRO/ SD/ MMC)												
Communication	AZALIA 56K Plug & Play Fax/Modem v.90/92 Compliant 10Mb/ 100Mb/ 1000Mb Fast Ethernet (Option) Intel PRO/Wireless 3945ABG Wireless LAN Module with PCIe Interface (Factory Option) Bluetooth Module - Version 2.0 (Factory Option) PC Camera with USB Interface												
Power Management	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">Supports ACPI 2.0</td> <td style="width: 50%; border: none;">Supports Battery Low Suspend</td> </tr> <tr> <td style="border: none;">Power Button as Sleep/Resume Key</td> <td style="border: none;">Supports Resume from Modem Ring</td> </tr> <tr> <td style="border: none;">Supports Hibernate Mode</td> <td style="border: none;">Supports Wake on LAN</td> </tr> <tr> <td style="border: none;">Supports Stand by Mode</td> <td></td> </tr> </table>	Supports ACPI 2.0	Supports Battery Low Suspend	Power Button as Sleep/Resume Key	Supports Resume from Modem Ring	Supports Hibernate Mode	Supports Wake on LAN	Supports Stand by Mode					
Supports ACPI 2.0	Supports Battery Low Suspend												
Power Button as Sleep/Resume Key	Supports Resume from Modem Ring												
Supports Hibernate Mode	Supports Wake on LAN												
Supports Stand by Mode													
Power	Full Range AC/DC Adapter 20V, 3.25A (65 Watts), 100~240V, 47~63Hz Full Range AC/DC Adapter 20V, 4.5A (90 Watts), 100~240V, 47~63Hz (If Using the Optional Port Replicator) 6 Cell Smart Lithium-Ion Battery Pack, 4000mAH (44.4W) Or 6 Cell Smart Lithium-Ion Battery Pack, 4400mAH (48.8W)												

Introduction

Feature	Specification	
Environmental Spec	Temperature Operating: 5°C ~ 35°C Non-Operating: -20°C ~ 60°C	Relative Humidity Operating: 20% ~ 80% Non-Operating: 10% ~ 90%
Physical Dimensions & Weight	<u>Model A Computers:</u> 333mm (w) * 276mm (d) * 24-33mm (h) 2.4 kg Without Battery	<u>Model B Computers:</u> 333mm (w) * 243mm (d) * 24-33mm (h) 2.2 kg Without Battery
Optional	<u>Optical Drive Module Options:</u> DVD/CD-RW Combo Drive Module DVD-Dual Drive Module Port Replicator (10/100 Base-T Ethernet Port, 4 * USB 2.0 Ports, Serial Port, Parallel Port, External Monitor Port, DC-In Jack) (Note: Port Replicator requires the supplied 90W power adapter)	Intel PRO/Wireless 3945ABG Wireless LAN Module with PCIe Interface (Factory Option) PC Camera with USB Interface (Factory Option) Bluetooth Module - Version 2.0 (Factory Option) Swap Battery - 2 ~ 3 Minutes Swap Time Charger Box

Model Differences

This notebook series includes **two** different model types (each model includes two design styles). The models differ slightly in design style including the LCD type, and the location of the card reader (the easiest way to differentiate between the model types is the location of the card reader).

Feature	M540N/M545N	M550N/M555N
LCD Type	14.0" WXGA (1280 * 768) TFT	15.0" XGA (1024 * 768) TFT OR 15.0" SXGA+ (1400 * 1050) TFT
4-in-1 Card	Front	Left Side
Design Styles		

Introduction

External Locator - Top View with LCD Panel Open

Figure 1
Top View

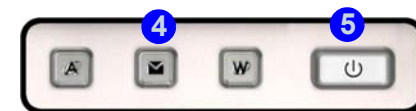
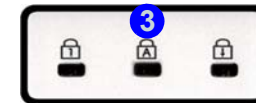
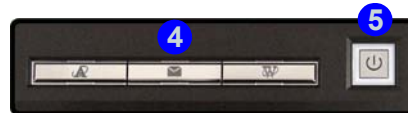
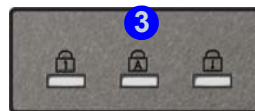
1. Optional Built-In PC Camera
2. LCD
3. LED Status Indicators
4. Hot-Key Buttons
5. Power Button
6. Keyboard
7. TouchPad and Buttons
8. LED Power & Communication Indicators
9. Built-In Microphone
10. Speakers



Note: Only M550N Design Style is Pictured



Note: Only M540N Design Style is Pictured



External Locator - Front & Right Side Views

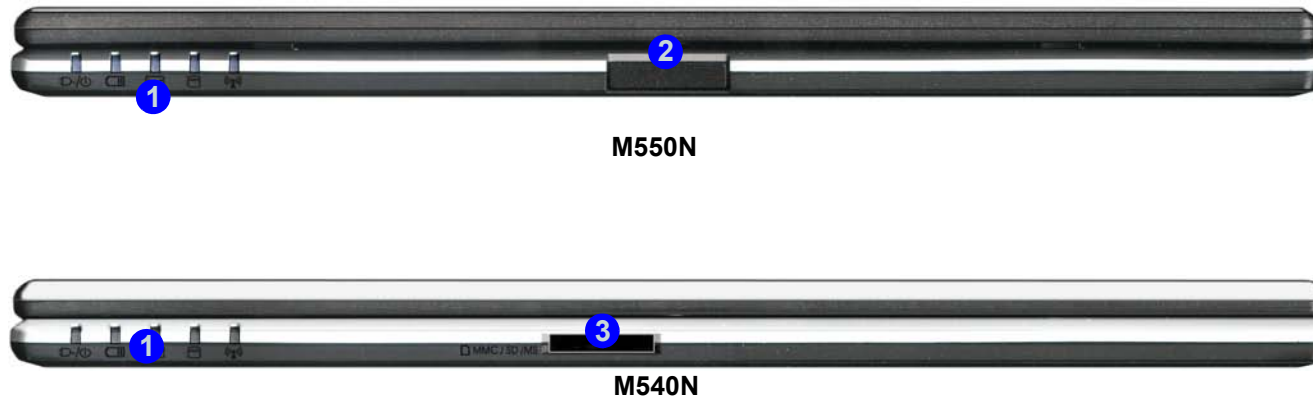


Figure 2
Front Views

1. LED Power & Communication Indicators
2. LCD Latch (M550N Only)
3. 4-in-1 Card Reader (M540N Only)



Figure 3
Right Side Views

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

Introduction

External Locator - Left Side & Rear View

Figure 4
Left Side View

1. RJ-45 LAN Jack
2. Vent/Fan Intake
3. 2 * USB 2.0 Ports
4. S/PDIF-Out Jack
5. Line-In Jack
6. Mini-IEEE 1394 Port
7. ExpressCard Slot
8. 4-in-1 Card Reader (M550N Only)

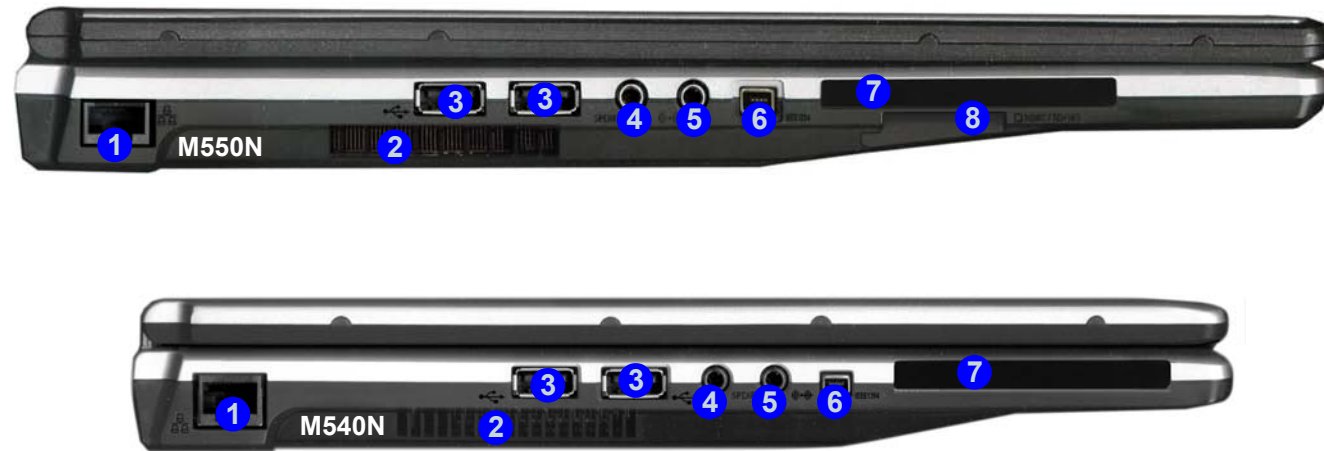


Figure 5
Rear View

1. External Monitor Port
2. S-Video-Out Port
3. Security Lock Slot
4. Battery



External Locator - Bottom View

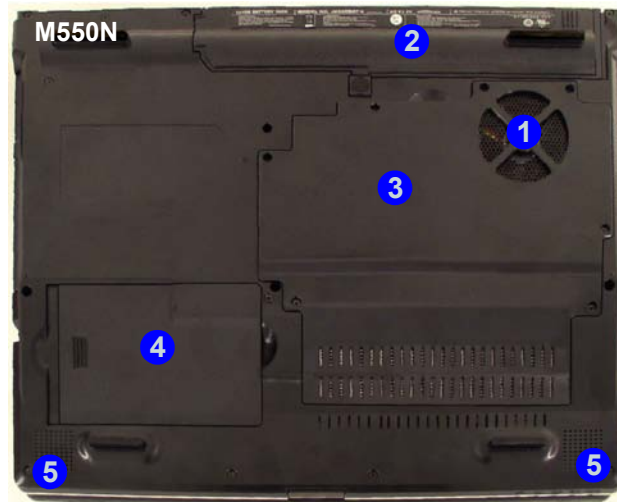


Figure 6
Bottom View

1. Vent/Fan Intake
2. Battery
3. Module Bay Cover
4. Hard Disk Cover
5. Speakers
(M550N Only)



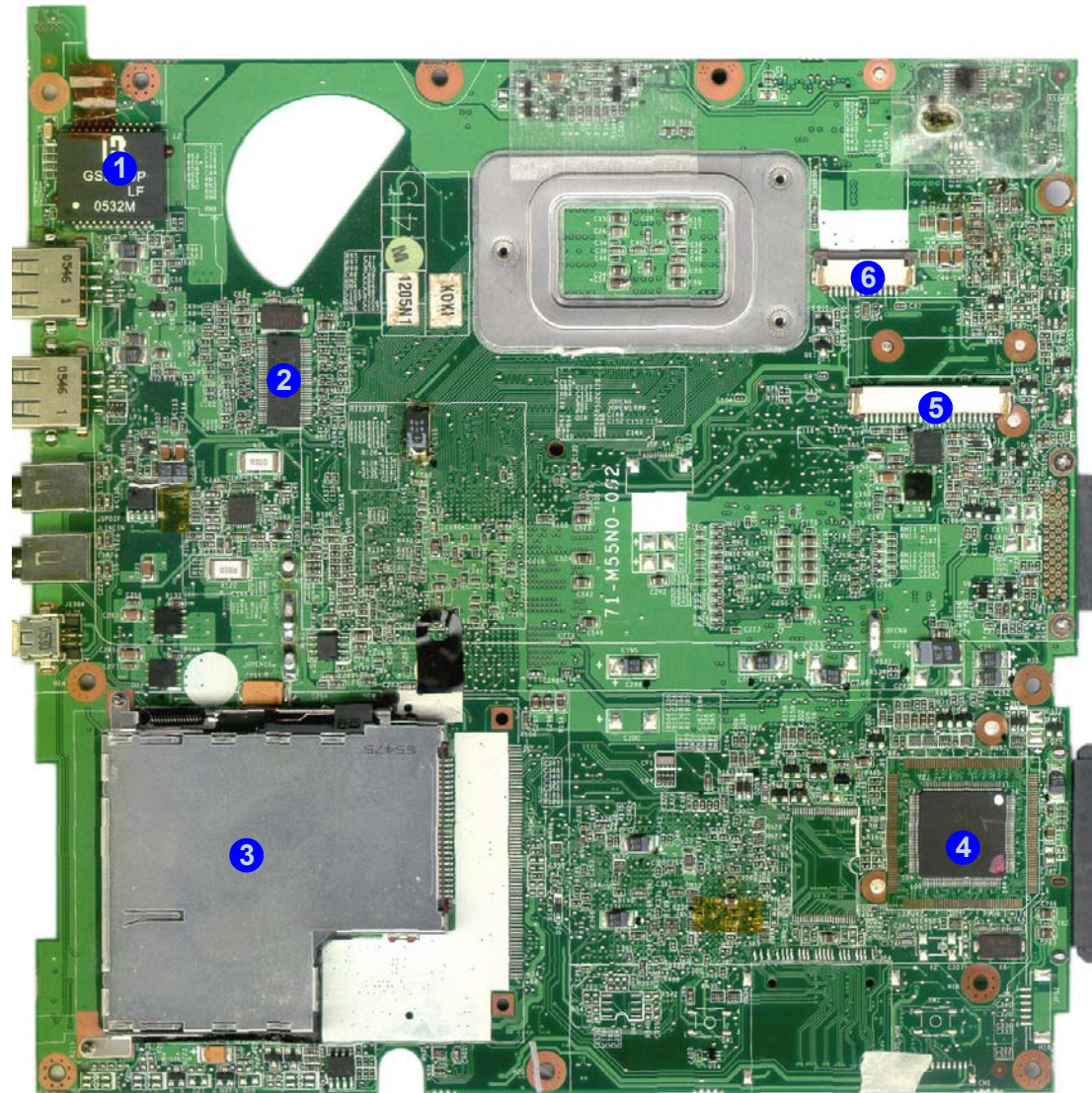
Overheating

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

M550N Mainboard Overview - Top (Key Parts)

Figure 7
Mainboard Top
Key Parts

1. GS5019P
2. Clock Generator
3. ExpressCard Assembly
4. H8/2111
5. Keyboard Cable Connector
6. Hot-Key Board Cable Connector



M550N Mainboard Overview - Bottom (Key Parts)

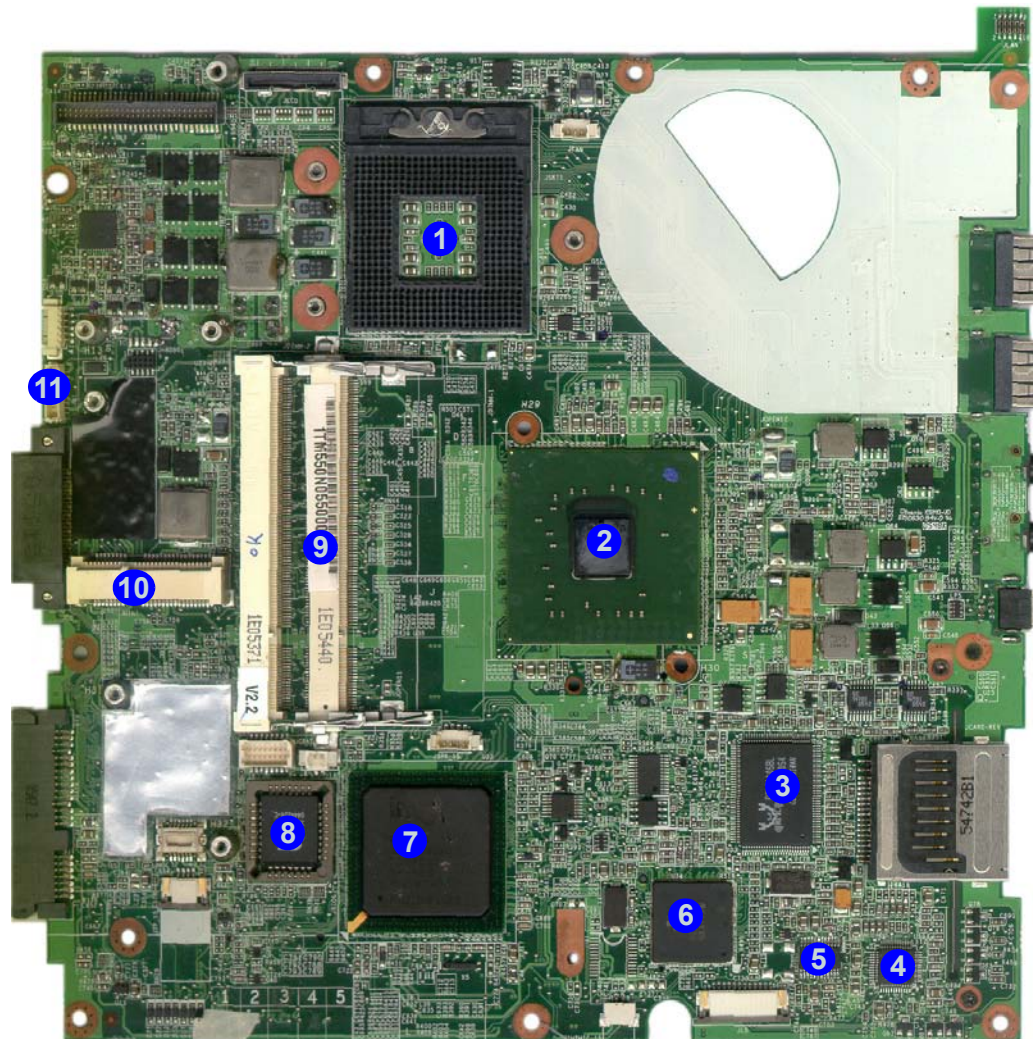


Figure 8
**Mainboard Bottom
Key Parts**

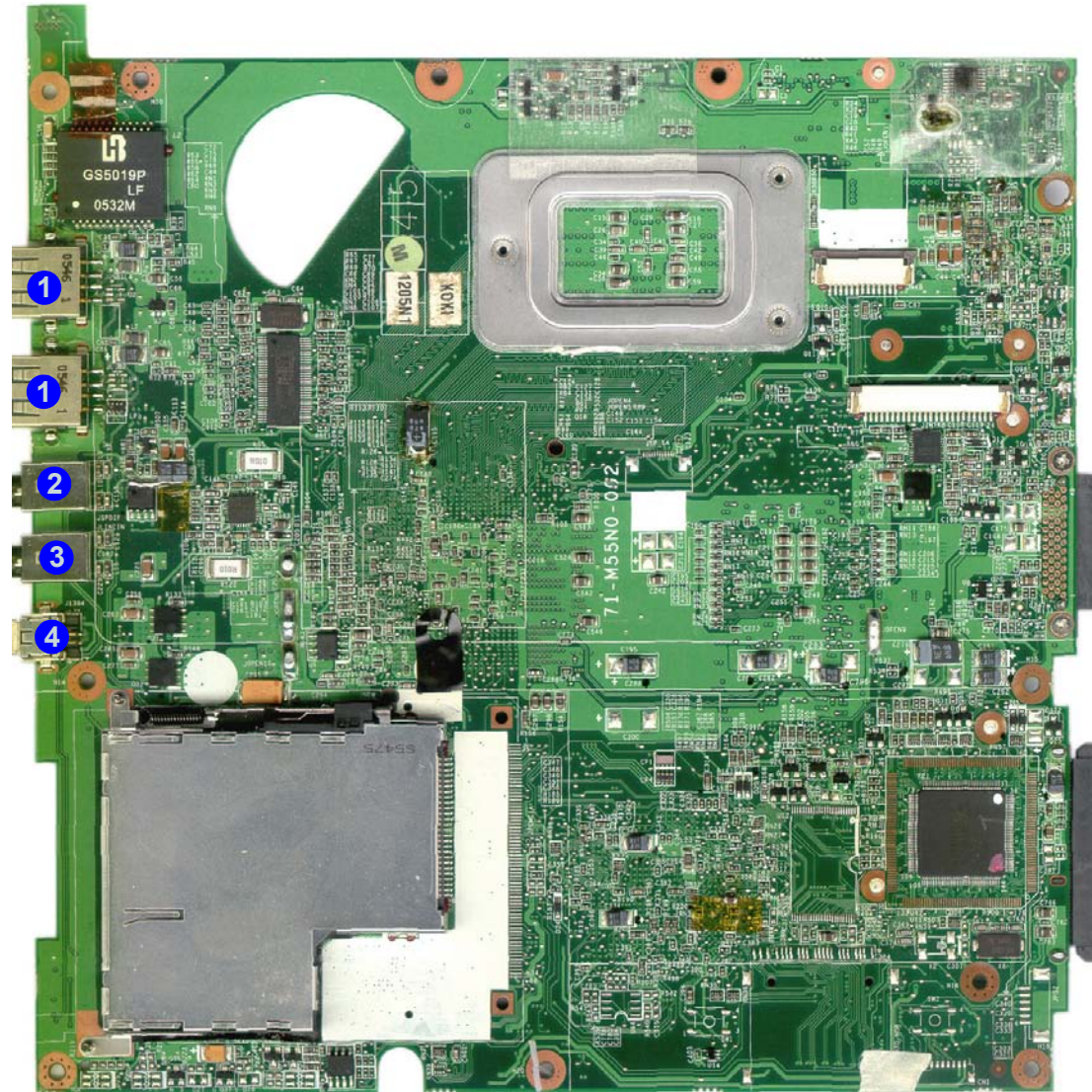
1. CPU Socket (no CPU installed)
2. Northbridge-Intel 945GM
3. Realtek RTL8110SBL
4. ALC880 Audio Codec
5. Audio Amp.
6. PCI7402
7. Southbridge-Intel ICH7-M
8. Flash BIOS ROM
9. Memory Slots DDRII So-DIMM
10. Mini PCIe Socket
11. Bluetooth Connector

Introduction

Figure 9
**Mainboard Top
Connectors**

1. USB Port
2. S/PDIF-Out Jack
3. Line-In Jack
4. Mini-IEEE 1394
Port

M550N Mainboard Overview - Top (Connectors)



M550N Mainboard Overview - Bottom (Connectors)

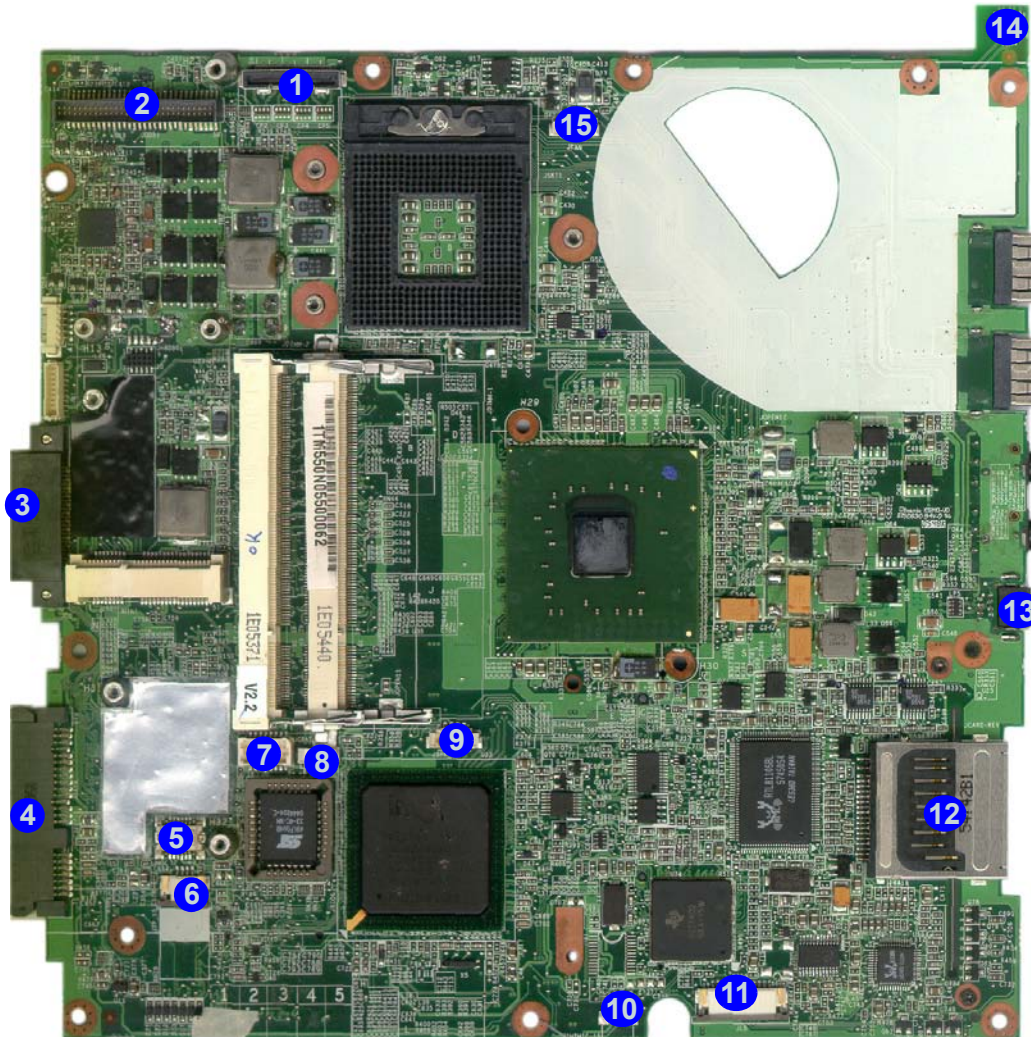


Figure 10
Mainboard Bottom
Connectors

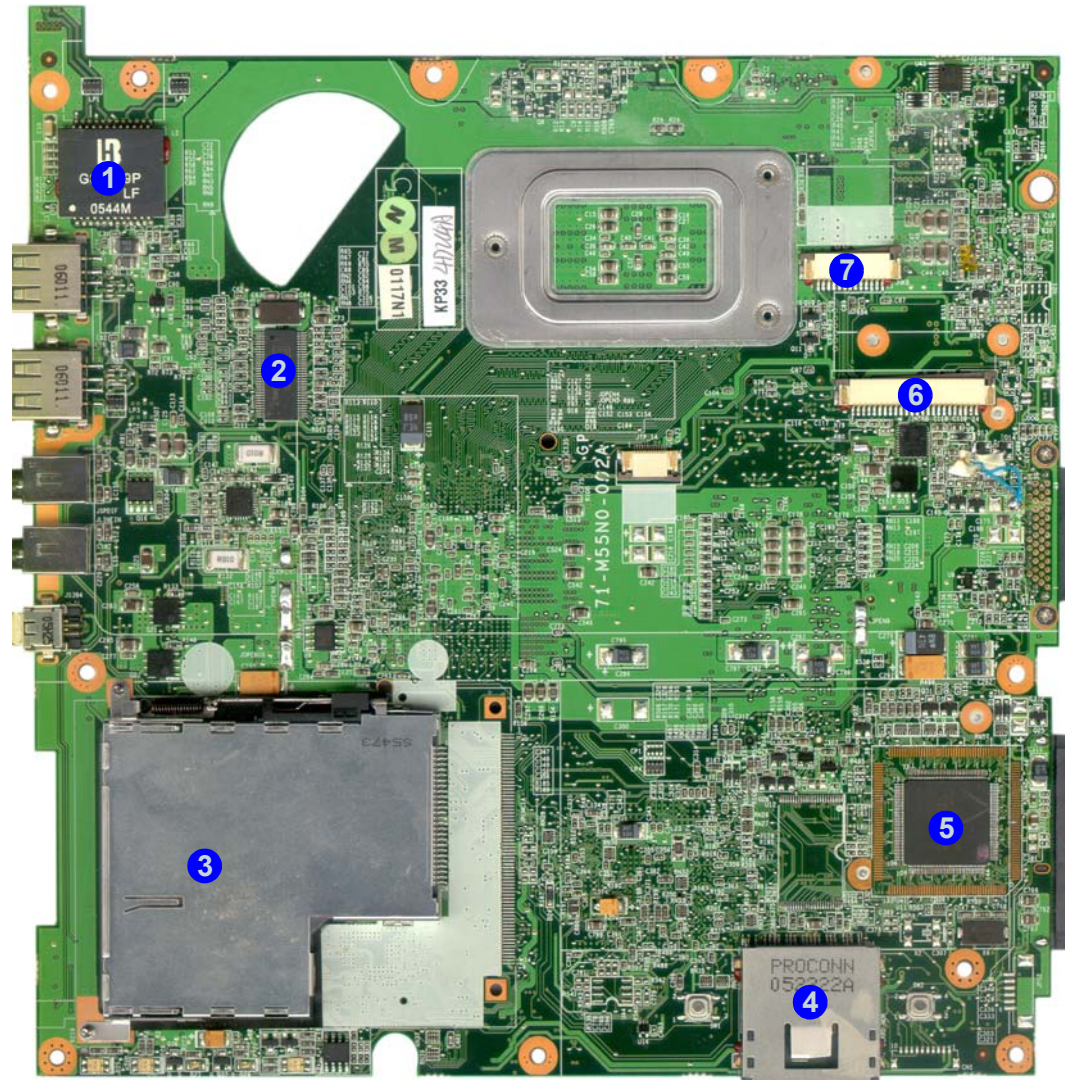
1. LCD Cable Connector
2. D/D Board Cable Connector
3. Optical Device Drive Connector
4. SATA HDD Connector
5. Modem Module Connector
6. Touch Pad Cable Connector
7. Audio Board Cable Connector
8. CMOS Bat. Cable Connector
9. Speaker Cable Connector
10. Microphone Cable Connector
11. LED Board Cable Connector
12. 4-in-1 Card Reader Socket
13. Mini-IEEE 1394 Port
14. RJ-45 LAN Connector
15. Fan Cable Connector

Introduction

M540N Mainboard Overview - Top (Key Parts)

Figure 11
Mainboard Top
Key Parts

1. GS5019P
2. Clock Generator
3. ExpressCard Assembly
4. 4-in-1 Card Reader Socket
5. H8/2111
6. Keyboard Cable Connector
7. Hot-Key Board Cable Connector



M540N Mainboard Overview - Bottom (Key Parts)

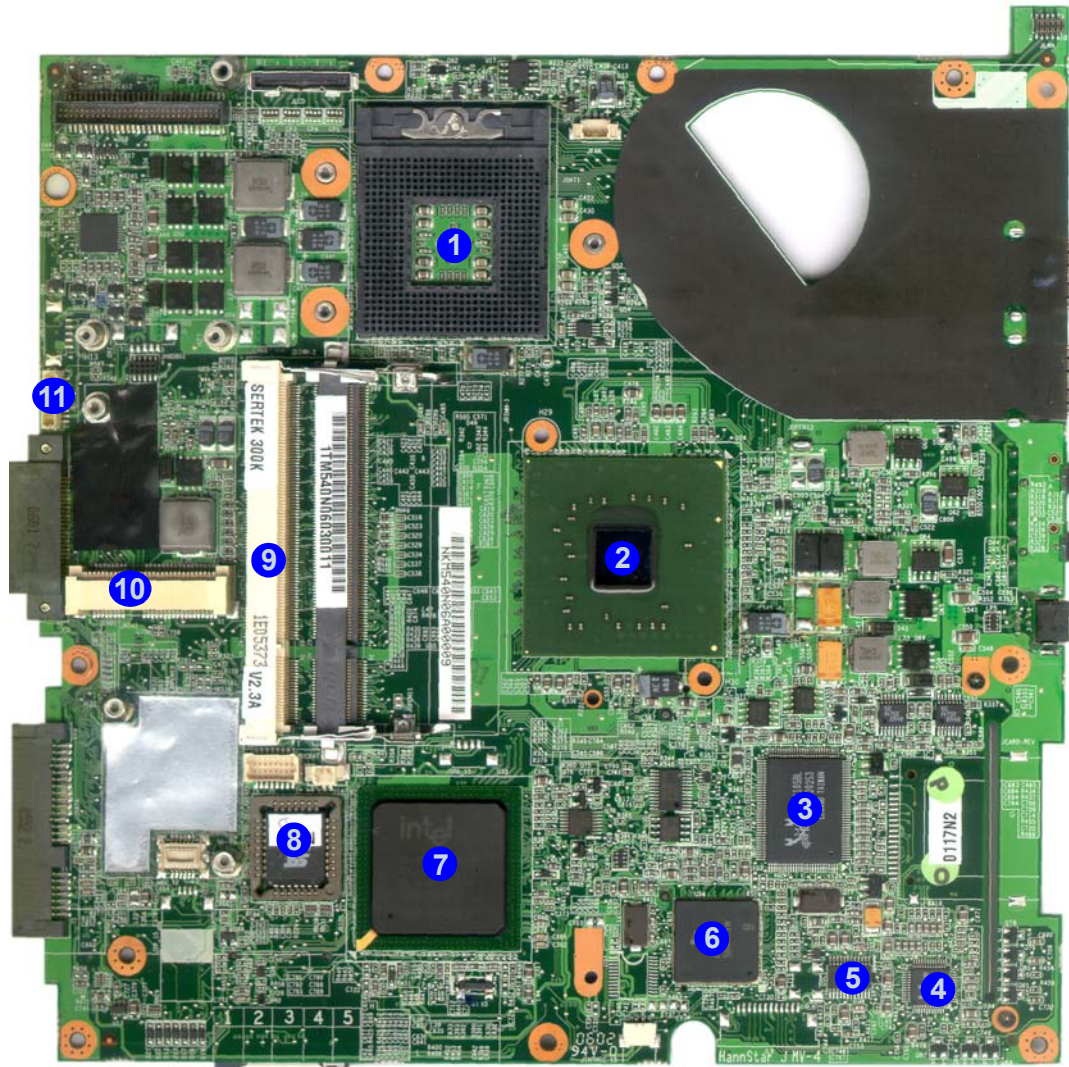


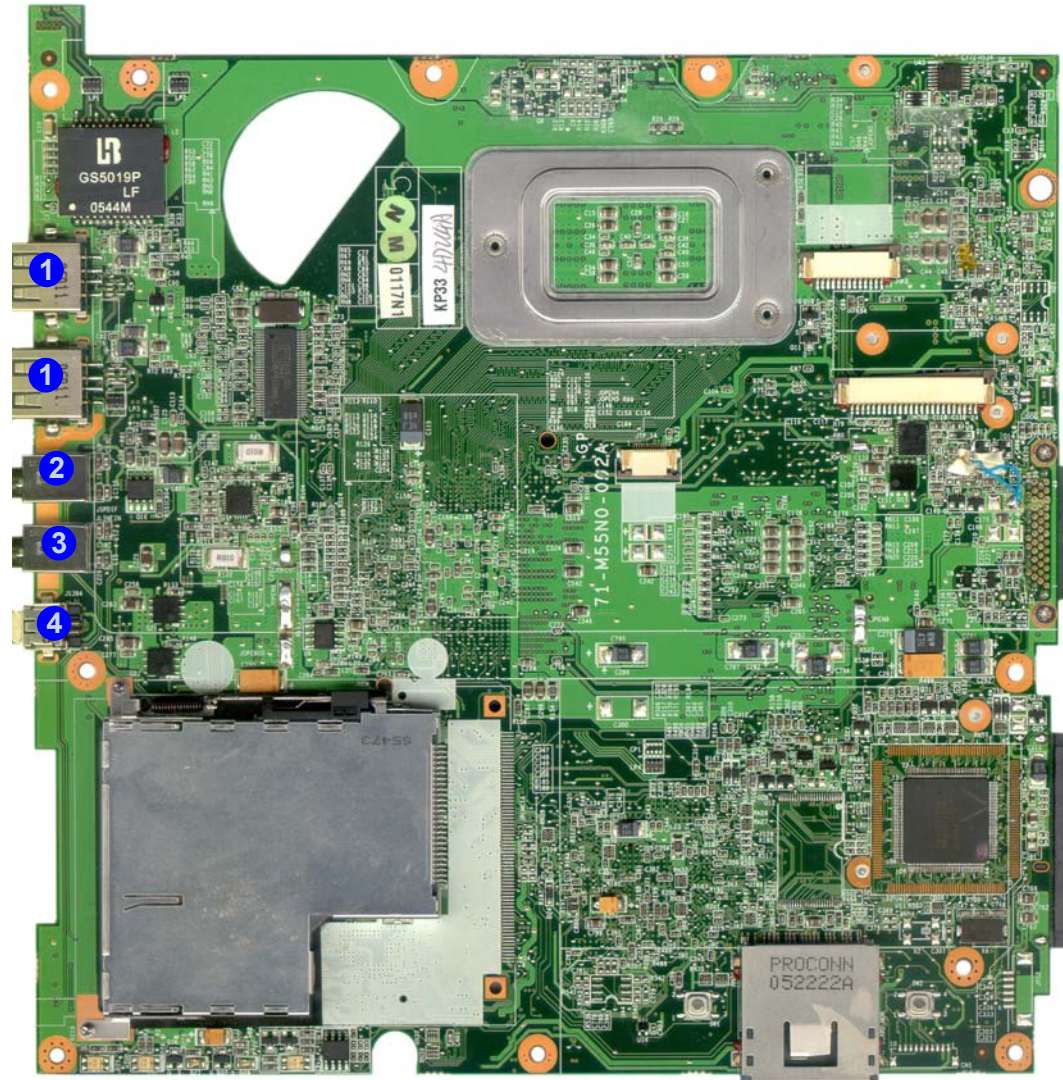
Figure 12
**Mainboard Bottom
Key Parts**

1. CPU Socket (no CPU installed)
2. Northbridge-Intel 945GM
3. Realtek RTL8110SBL
4. ALC880 Audio Codec
5. Audio Amp.
6. PCI7402
7. Southbridge-Intel ICH7-M
8. Flash BIOS ROM
9. Memory Slots DDRII So-DIMM
10. Mini PCIe Socket
11. Bluetooth Cable Connector

M540N Mainboard Overview - Top (Connectors)

Figure 13
Mainboard Top
Connectors

1. USB Port
2. S/PDIF-Out Jack
3. Line-In Jack
4. Mini-IEEE 1394 Port



M540N Mainboard Overview - Bottom (Connectors)

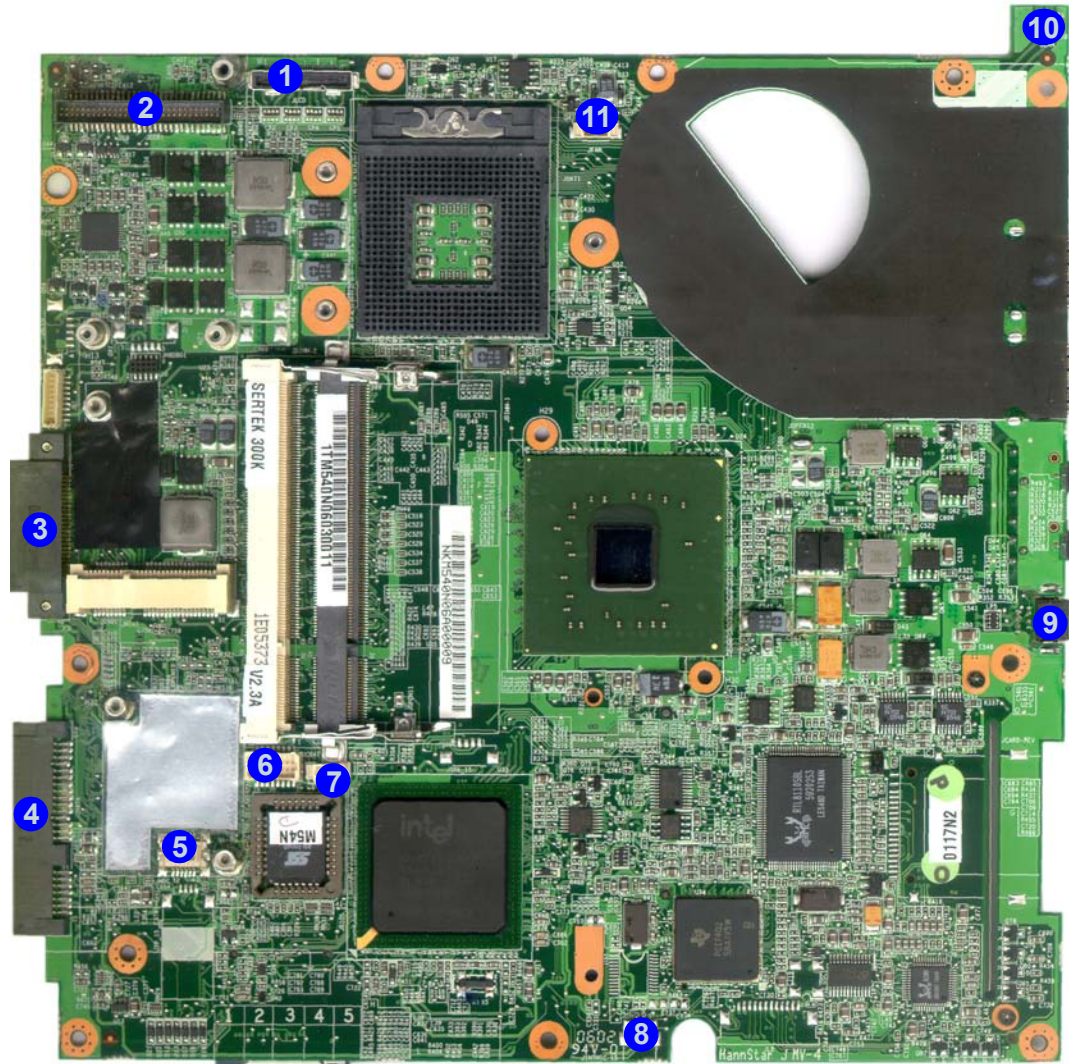


Figure 14
**Mainboard Bottom
Connectors**

1. LCD Cable Connector
2. D/D Board Cable Connector
3. Optical Device Drive Connector
4. SATA HDD Connector
5. Modem Module Connector
6. Audio Board Cable Connector
7. CMOS Bat. Cable Connector
8. Microphone Cable Connector
9. Mini-IEEE 1394 Port
10. RJ-45 LAN Connector
11. Fan Cable Connector


Chapter 2: Disassembly



Overview

This chapter provides step-by-step instructions for disassembling the *M540/M545N/M550/M555N* series notebook's parts and subsystems. When it comes to reassembly, reverse the procedures (unless otherwise indicated).

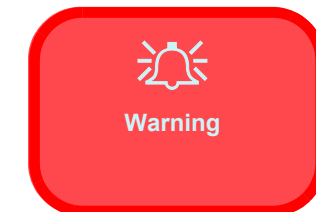
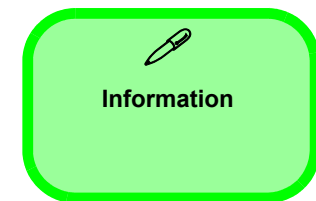
We suggest you completely review any procedure before you take the computer apart.

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

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

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

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



Disassembly

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

Maintenance Tools

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

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

Connections

Connections within the computer are one of four types:

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

Maintenance Precautions

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

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

Cleaning

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

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



Power Safety Warning

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

Disassembly Steps

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

To remove the Battery:

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

To remove the HDD:

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

To remove the System Memory:

1. Remove the battery [page 2 - 5](#)
2. Remove the system memory [page 2 - 9](#)

To remove the Processor:

1. Remove the battery [page 2 - 5](#)
2. Remove the processor [page 2 - 11](#)

To remove the Wireless LAN Module:

1. Remove the battery [page 2 - 5](#)
2. Remove the wireless LAN [page 2 - 13](#)

To remove the Bluetooth:

1. Remove the battery [page 2 - 5](#)
2. Remove the wireless LAN [page 2 - 6](#)
3. Remove the bluetooth [page 2 - 14](#)

To remove the Optical Device:

1. Remove the battery [page 2 - 5](#)
2. Remove the Optical device [page 2 - 15](#)

To remove the Keyboard:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 16](#)

To remove the Modem :

1. Remove the battery [page 2 - 5](#)
2. Remove the HDD [page 2 - 6](#)
3. Remove the CPU heat sink [page 2 - 11](#)
4. Remove the Optical device [page 2 - 15](#)
5. Remove the keyboard [page 2 - 16](#)
6. Remove the modem [page 2 - 17](#)

Removing the Battery

1. Turn the computer **off**, and turn it over.
2. Locate the battery bay at point **1** (*Figure a*).
3. Slide the latch **2** in the direction of the arrow, and hold it in place.
4. Slide the battery in the direction of the arrow **3**.
5. Lift the battery out in the direction of the arrow **4** then lift the battery **5** out.

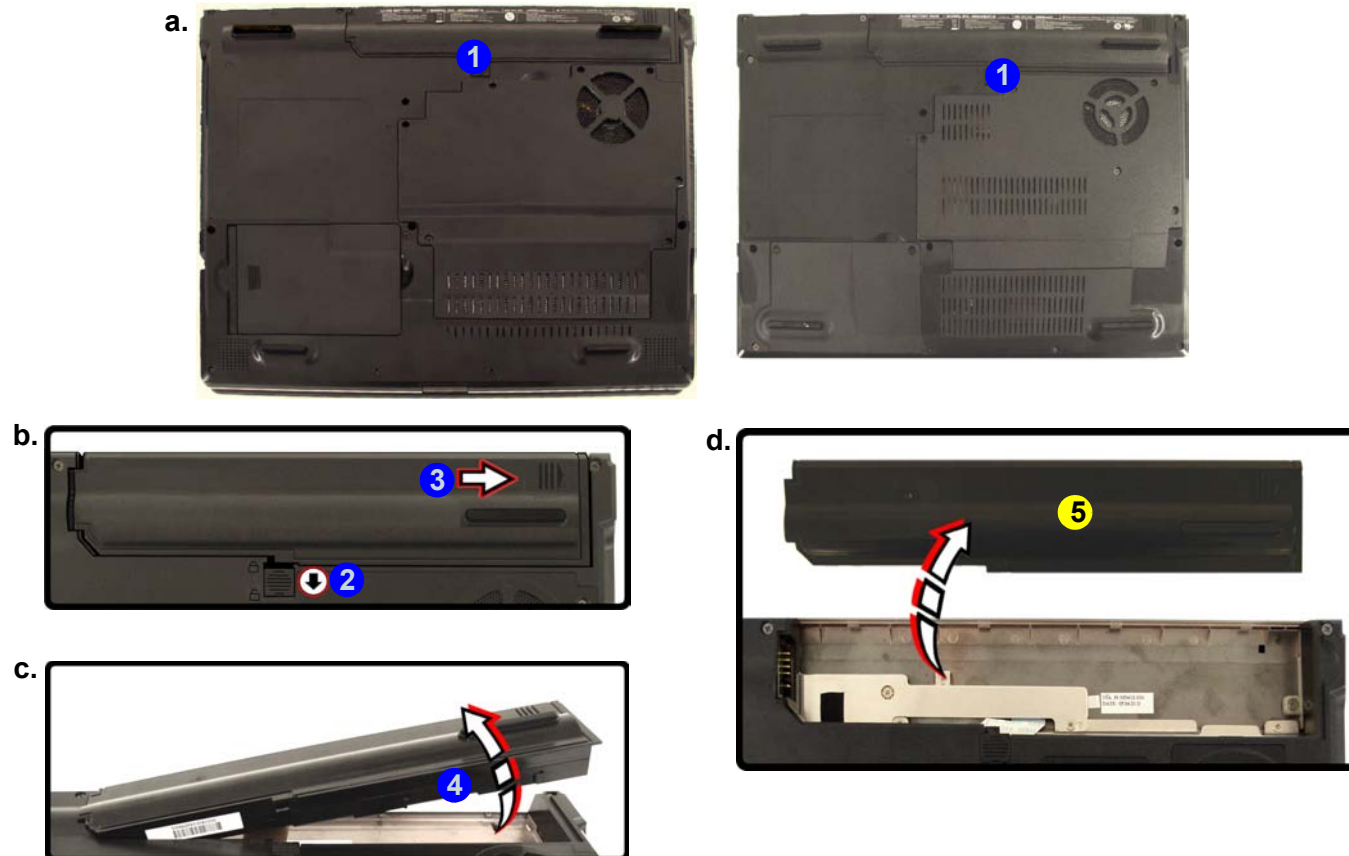
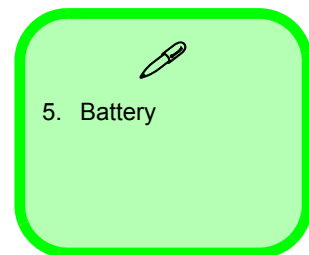


Figure 1
Battery Removal

- a. Locate the battery release latch.
- b. Slide the latch and hold in place.
- c. Slide the battery in the direction of the arrow.
- d. Lift the battery out.



Removing the Hard Disk Drive

Figure 2
**HDD Assembly
Removal**

The hard disk drive is mounted in a removable case and can be taken out to accommodate other 2.5" IDE 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 **1** and remove screw **2** **M550N**, OR screws **3** - **4** **M540N**.



1. HDD Bay Cover

 - 1 Screw (M550N)
 - 2 Screws (M540N)



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.

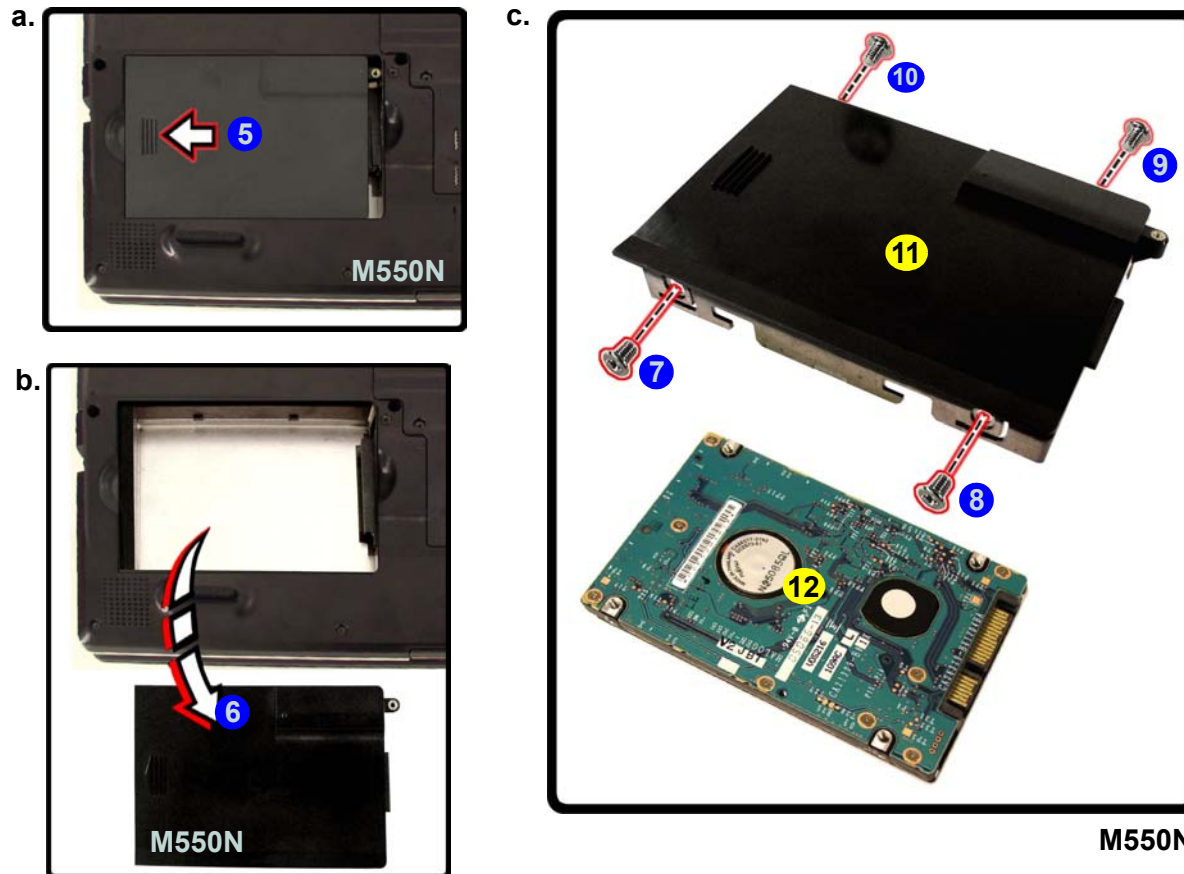
If you have access to the internet, download the latest application and hardware driver updates for the operating system you plan to install. Copy these to a removable medium.


For M550N computers:

- Slide the hard disk and cover assembly in the direction of arrow 5.
- Lift the hard disk and cover assembly up in the direction of arrow 6.
- Remove the hard disk and cover assembly (Figure c).
- Remove screws 7 - 10 to release the hard disk 12 from the assembly cover 11, and reverse the process to install any new hard disk.

Figure 3
HDD & Case Assembly
Removal

- Slide out the HDD assembly.
- Lift the HDD assembly out of the bay.
- Remove the 4 screws and separate the cover and HDD.





11. HDD Assembly Cover
12. HDD

- 4 Screws

Disassembly

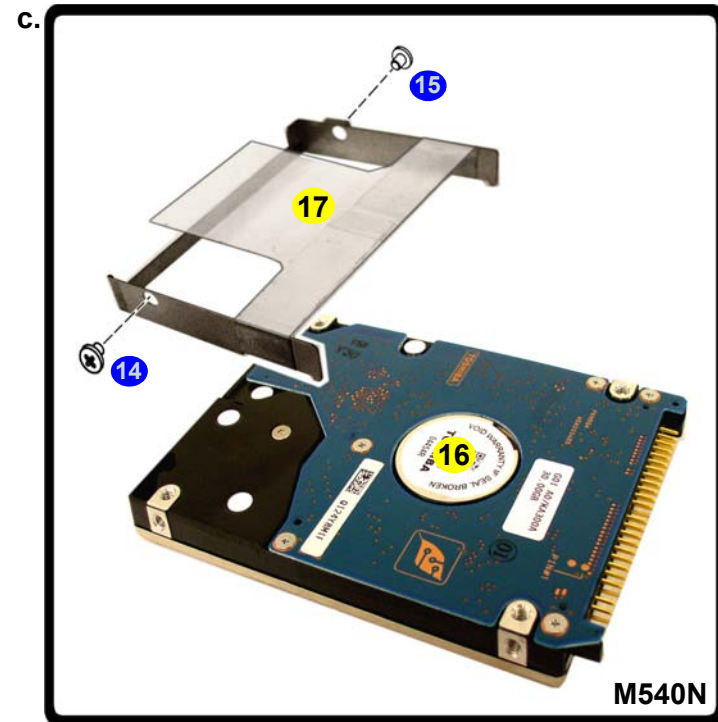
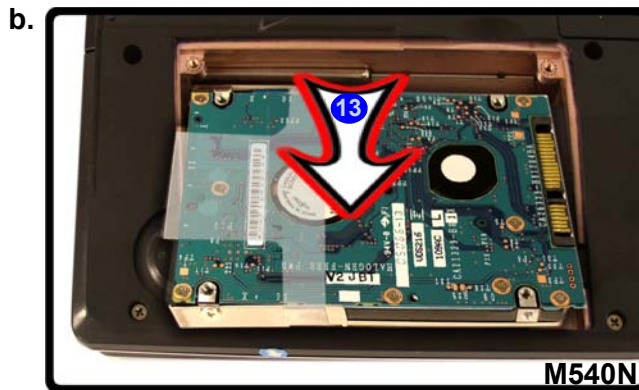
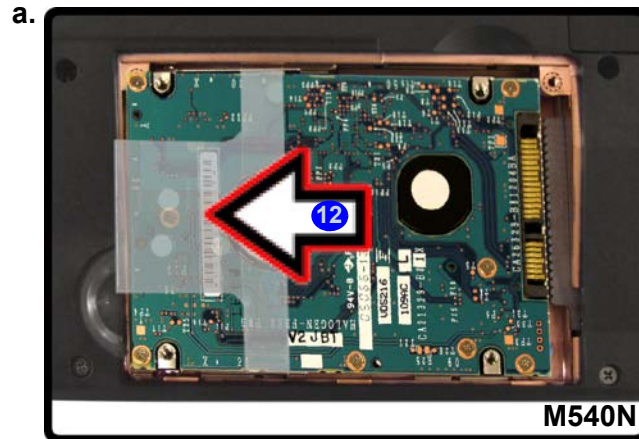
Figure 4

HDD & Case Assembly Removal

- Slide out the HDD assembly.
- Lift the HDD assembly out of the bay.
- Remove the 2 screws and separate the case and HDD.

For M540N computers:

- Pull the tab to slide the hard disk and case assembly in the direction of arrow 12.
- Lift the hard disk and case assembly out of the bay in the direction of arrow 13.
- Remove screws 14 - 15 to release the hard disk 16 from the case 17, and reverse the process to install any new hard disk.



16. HDD
17. HDD Case

- 2 Screws

Removing the System Memory (RAM)

The computer has two memory sockets for 200 pin Small Outline Dual In-line Memory Modules (SO-DIMM) supporting **DDRII** 533/677MHz. The main memory can be expanded up to 2GB. The SO-DIMM modules supported are 256MB, 512MB and 1024MB **DDRII** Modules. The total memory size is automatically detected by the POST routine once you turn on your computer.

Memory Upgrade Process

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)).
2. Locate the Module bay cover **1**, and remove screws **2** - **8** (for **M550N**) OR screws **2** - **6** (for **M540N**).
3. Remove the Module bay cover **1**.

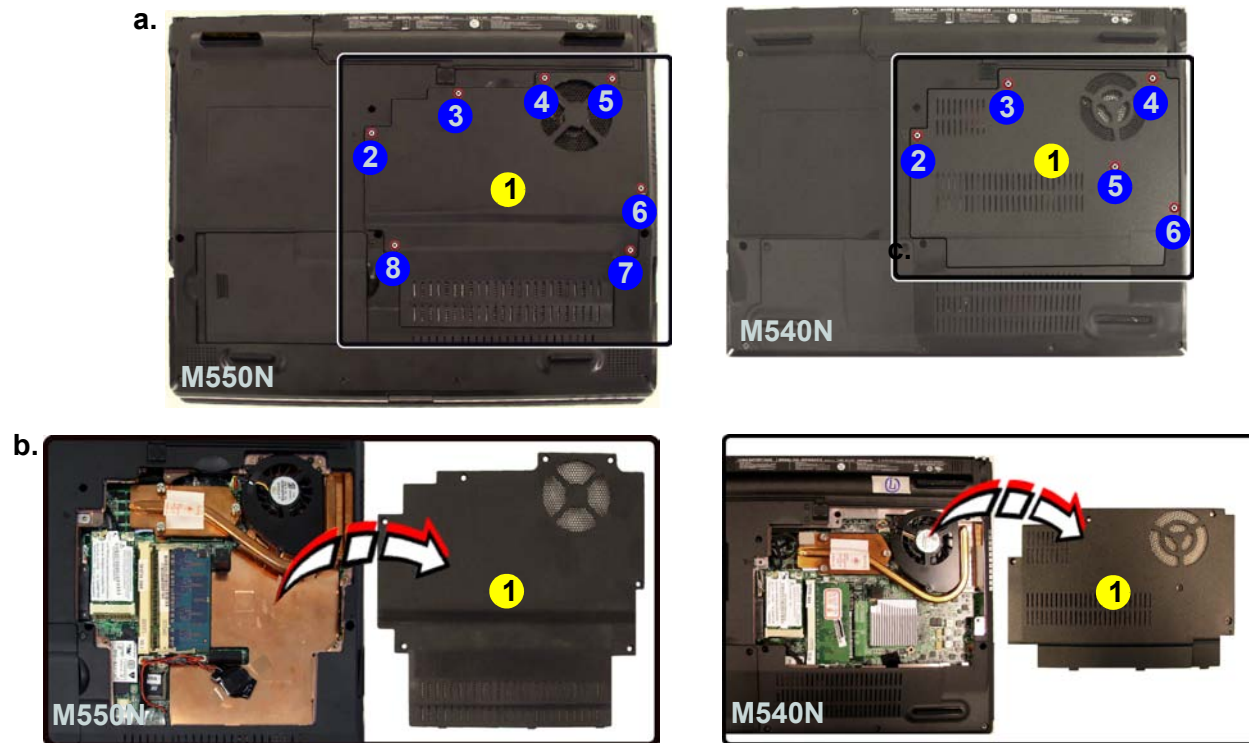


Figure 5
RAM Module Removal

- Remove the screws.
- Remove the cover.



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.



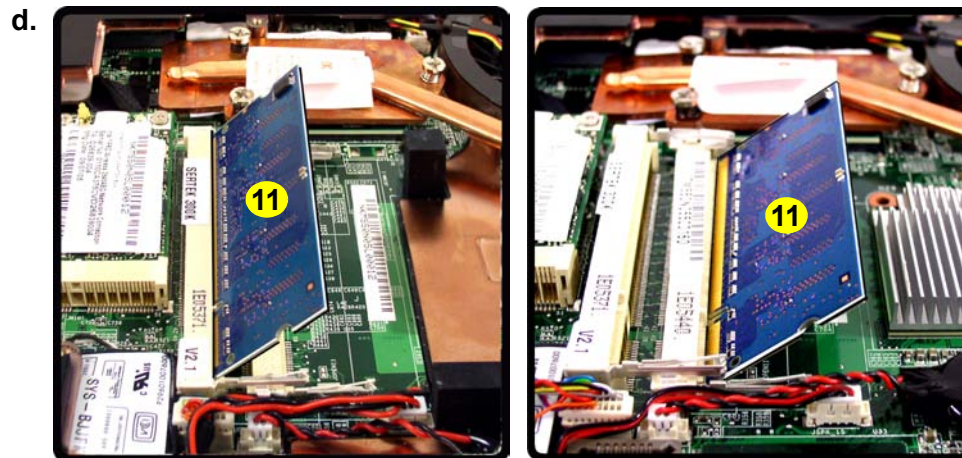
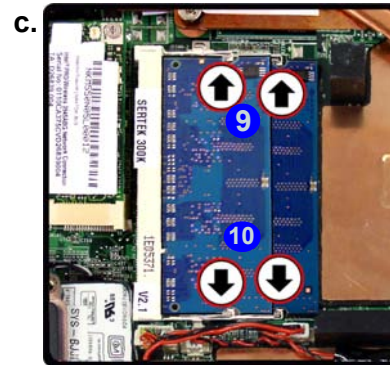
1. Module Bay Cover
 - 7 Screws (M550N)
 - 5 Screws (M540N)

Disassembly

Figure 6 Memory Removal Sequence

- c. Pull the release latch(es).
d. Remove the module(s).

- Gently pull the two release latches (9 & 10) on the sides of the memory socket in the direction indicated by the arrows (Figure c).
- The RAM module(s) 11 will pop-up (Figure d), and you can then remove it.



11. Ram Module(s)

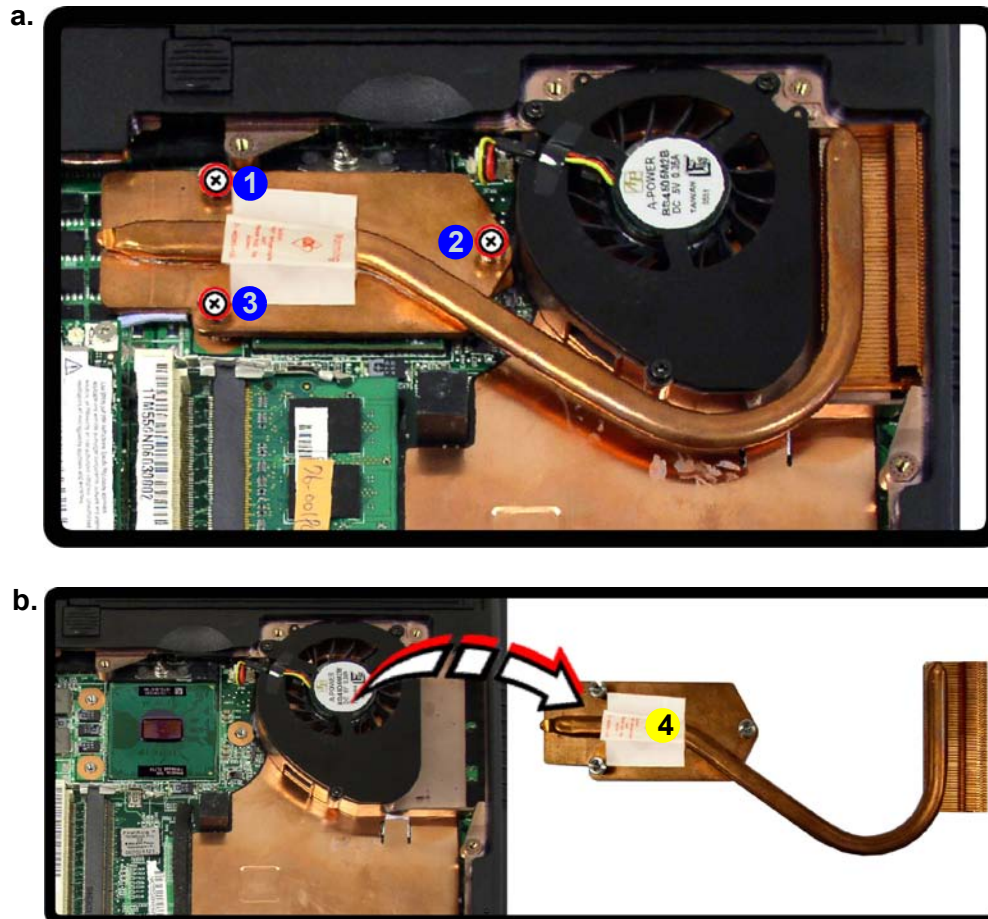
- Pull the latches to release the second module if necessary.
- Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
- The module will only fit one way as defined by its pin alignment. Make sure the module is seated as far into the slot as it will go. DO NOT FORCE IT; it should fit without much pressure.
- Press the module down towards the mainboard until the slot levers click into place to secure the module.
- Replace the module bay cover and the screws (see [page 2 - 9](#)).
- Restart the computer to allow the BIOS to register the new memory configuration as it starts up.

Removing the Processor

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)) and the module bay cover ([page 2 - 9](#)).
2. Remove screws **1** - **3** ([Figure a](#)) from the heat sink in the order indicated.
3. Carefully lift up the heat sink **4** ([Figure b](#)) off the computer.

Figure 7
Processor Removal

- a. Remove the 3 screws in the order indicated.
- b. Remove the heat sink.



4. Heat Sink
• 3 Screws

Disassembly


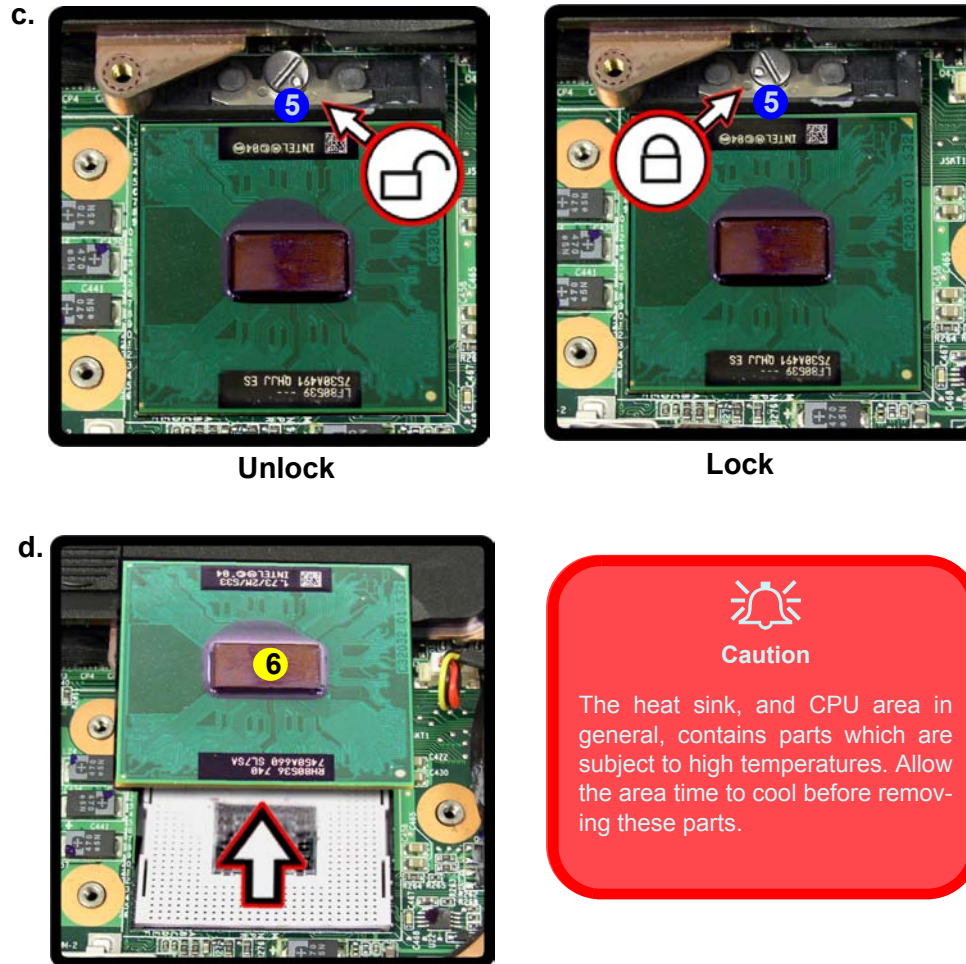
4. Turn the release latch **5** towards the unlock symbol , to release the CPU (*Figure 8c*).
5. Carefully (it may be hot) lift the CPU **6** up out of the socket (*Figure 8d*).
6. Reverse the process to install a new CPU.
7. When re-inserting the CPU, pay careful attention to the pin alignment, it will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

Figure 8

Processor Removal (cont'd)

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



6. CPU

Removing the Wireless LAN Module

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)) and the module bay cover ([page 2 - 9](#)).
2. Carefully disconnect cable **1**, then remove the screws **2** - **3** from the module socket.
3. The wireless LAN module **4** ([Figure b](#)) will pop-up.
4. Lift the wireless LAN module **4** ([Figure c](#)) up and off the computer.

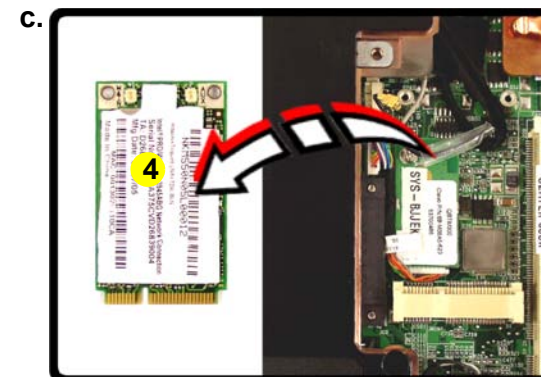
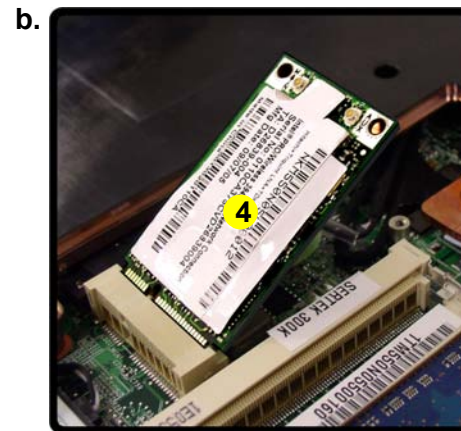
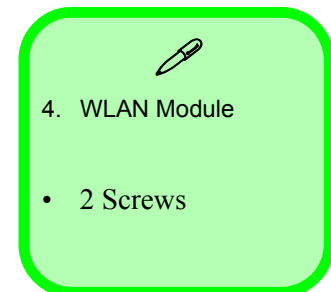


Figure 9
**Wireless LAN
Module Removal**

- a. Disconnect the cable and remove the 2 screws.
- b. The WLAN module will pop up.
- c. Remove the WLAN module.

Note: Make sure you reconnect the antenna cable to the “Main” socket ([Figure a](#)).



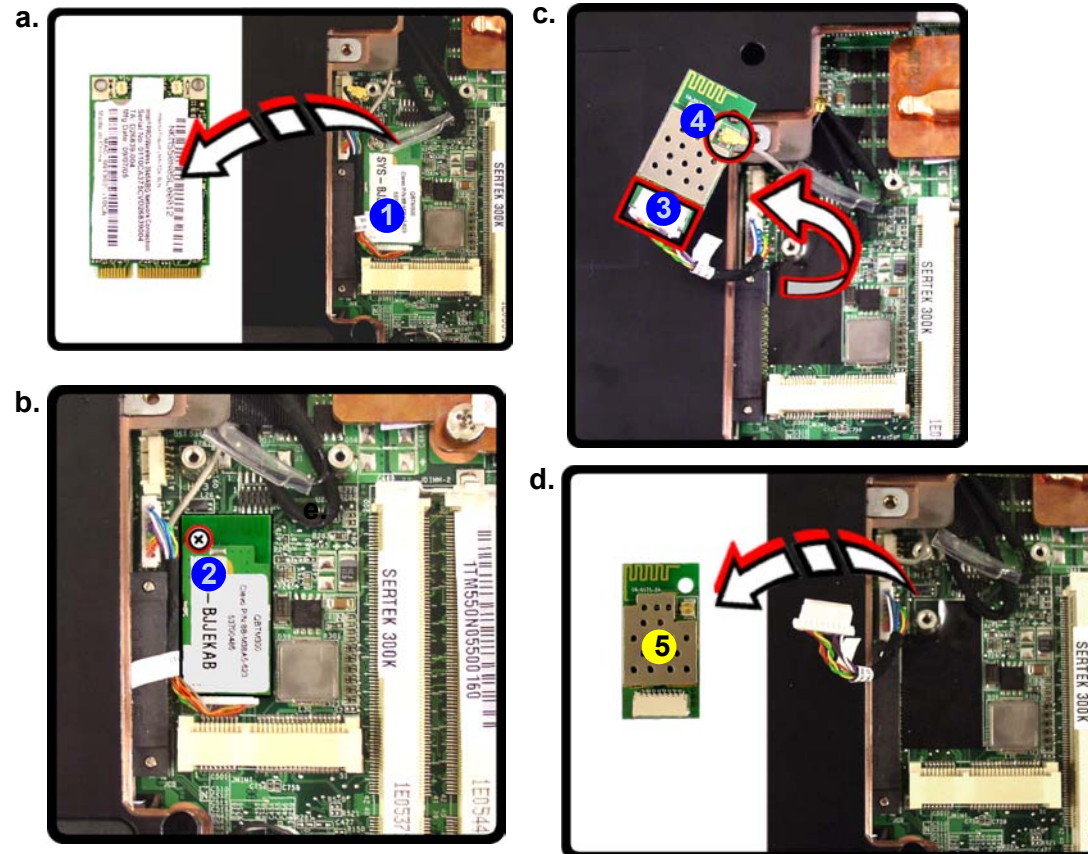
Disassembly

Figure 10
Bluetooth Removal

- a. Remove WLAN Module and locate the Bluetooth module.
- b. Remove the screw.
- c. Lift the Bluetooth module up and separate the connector and disconnect the cable.
- d. Remove Bluetooth module.

Removing the Bluetooth Module

1. Turn off the computer, remove the battery ([page 2 - 5](#)), remove the module bay cover ([page 2 - 9](#)) and remove the WLAN module ([page 2 - 13](#)).
2. The Bluetooth module **1** is located under the WLAN module.
3. Remove the screw **2** from the Bluetooth module.
4. Lift the Bluetooth module up ([Figure c](#)) and carefully separate the module from the connector **3** and disconnect the cable **4**.
5. Lift the Bluetooth module **5** ([Figure d](#)) up and off the computer.



5. Bluetooth Module

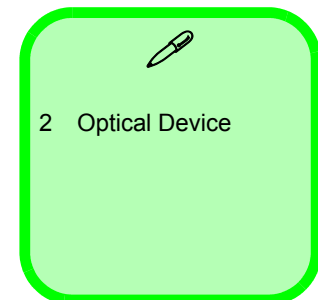
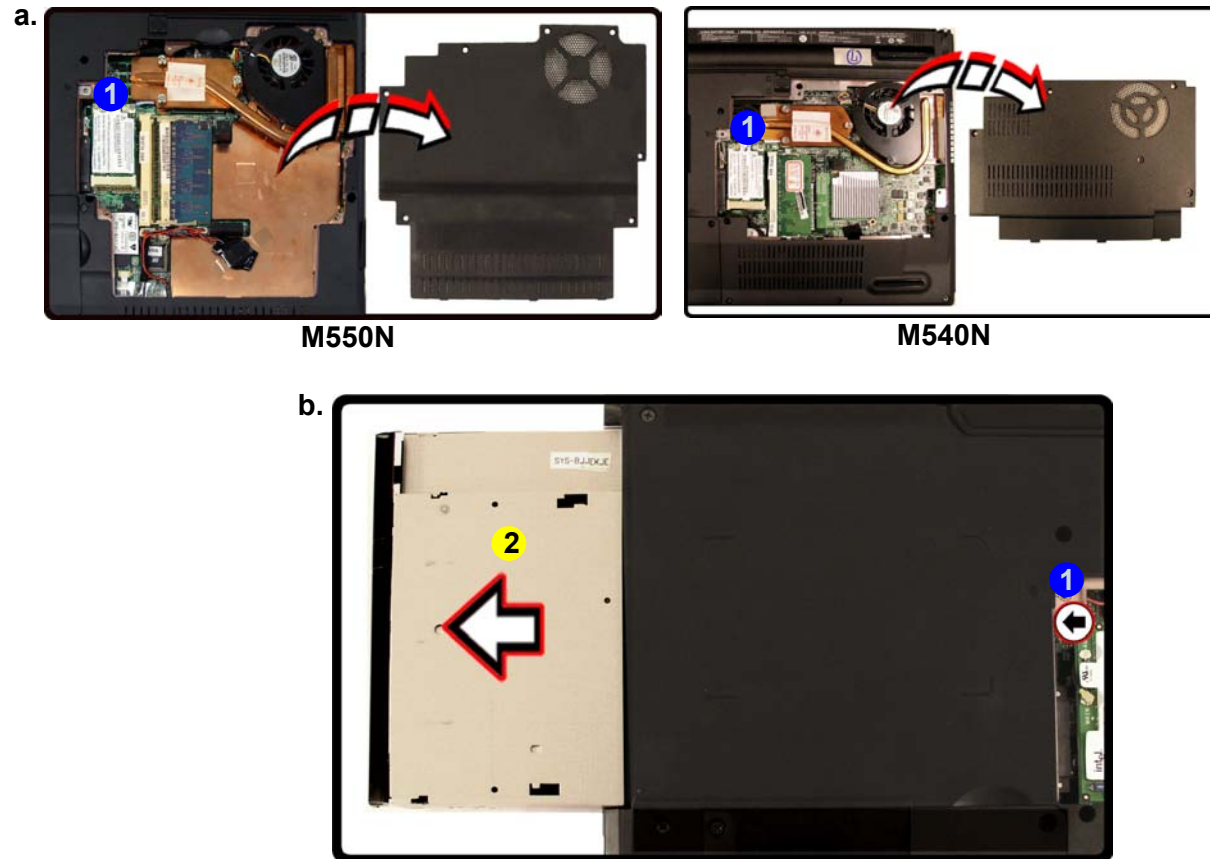
- 1 Screw

Removing the Optical (CD/DVD) Device

1. Turn off the computer, remove the battery ([page 2 - 5](#)), and remove the module bay cover ([page 2 - 9](#)).
2. Use a screwdriver to carefully push out the optical device **2** at point **1**.
3. 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).
4. Restart the computer to allow it to automatically detect the new device.

Figure 11
Optical Device Removal

- a. Remove the cover.
- b. Push the optical device out off the computer at point 1.



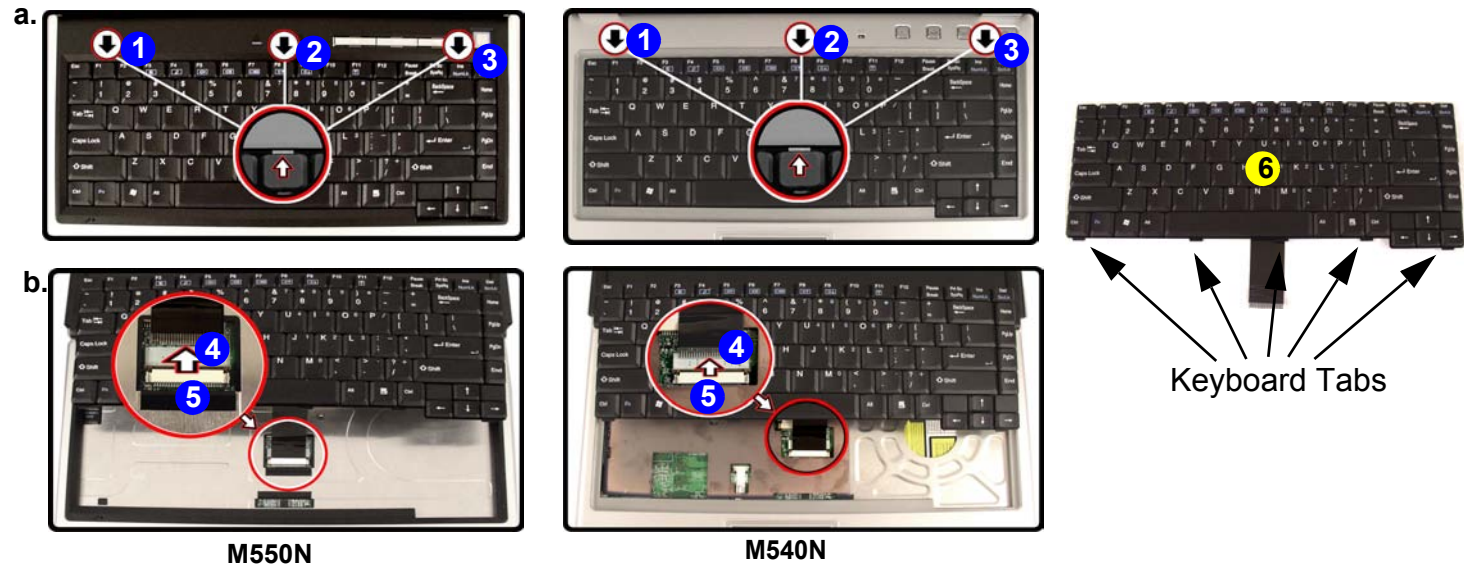
Disassembly

Figure 12
Keyboard Removal

- a. Press the three latches at the top of the keyboard to release the keyboard.
- b. Lift the keyboard up and disconnect the cable from the locking collar.

Removing the Keyboard

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



Re-Inserting the Keyboard

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



6. Keyboard

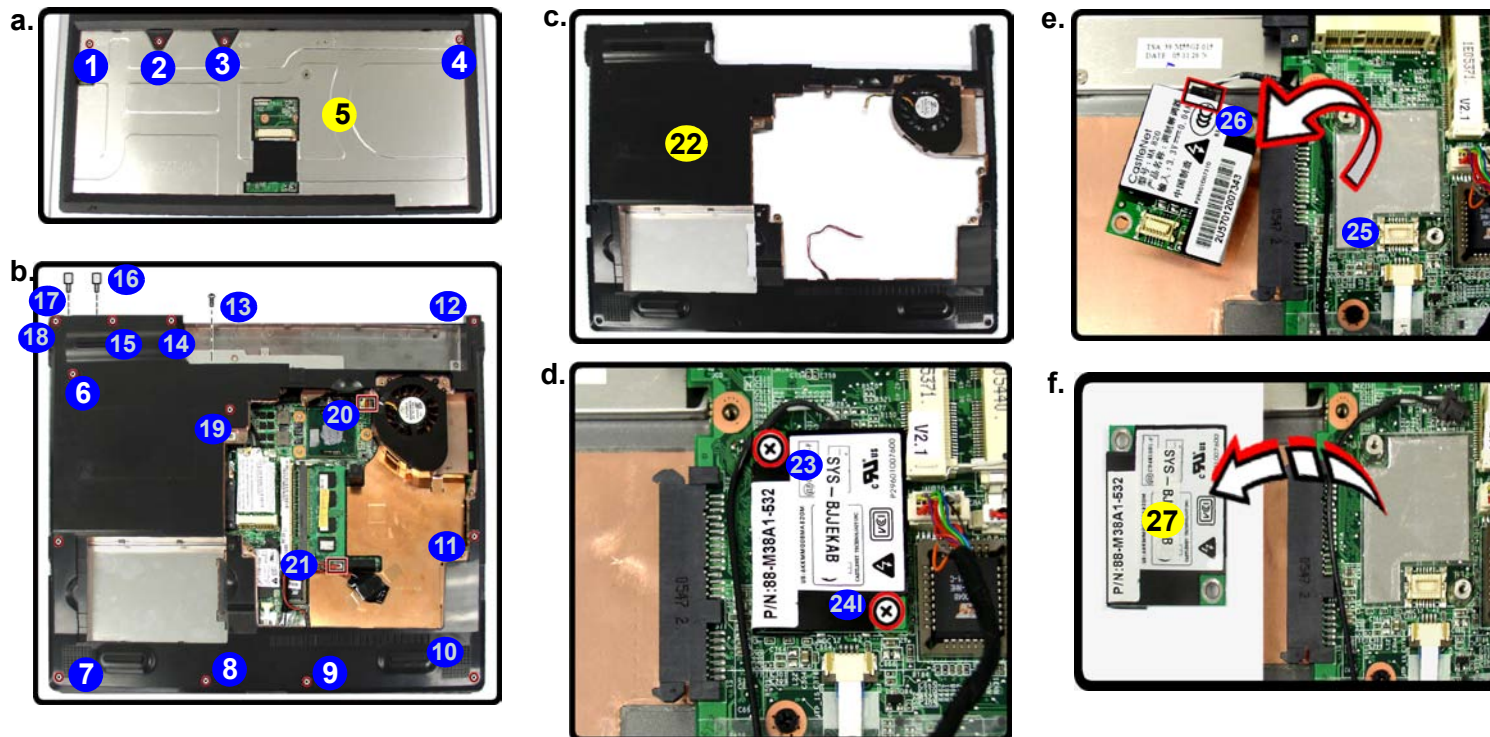
Removing the Modem

For M550N computers:

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)), remove the hard disk ([page 2 - 6](#)), remove the heat sink ([page 2 - 11](#)), remove the optical device ([page 2 - 15](#)) and remove the keyboard ([page 2 - 16](#)).
2. Remove screws **1** - **4** from the keyboard shielding plate **5** and turn it over.
3. Remove screws **6** - **19** from the bottom case and carefully disconnect the fan cable **20** and speaker cable connector **21** from the main board ([Figure b](#)).
4. Carefully lift the bottom case **22** ([Figure c](#)) up and off the computer.
5. Remove screws **23** - **24** from the modem.
6. Lift the modem up off the socket **25** and carefully separate the connector **26** from the modem.
7. Lift the modem **27** ([Figure f](#)) up and off the computer.

Figure 13
Modem Removal for M550N

- a. Remove the 4 screws from the keyboard shielding plate.
- b. Remove the 14 screws , and disconnect the fan cable and speaker cable connector.
- c. Remove the bottom case.
- d. Remove the 2 screws.
- e. Lift the modem up off the socket and separate the connector from the modem module.
- f. Remove the modem.



✍

5. Keyboard Shielding Plate
22. Bottom Case
27. Modem

- 20 Screw

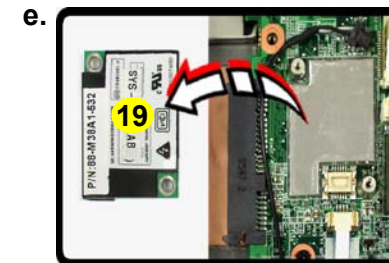
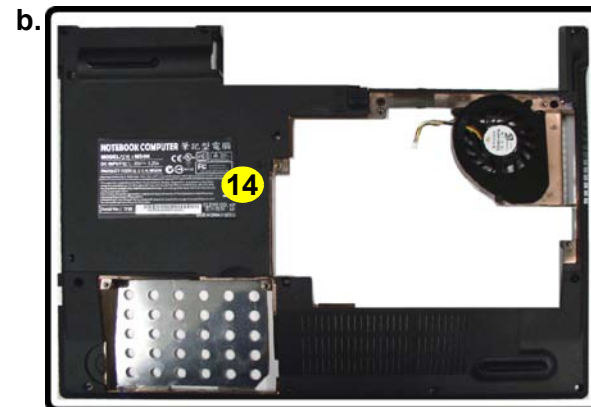
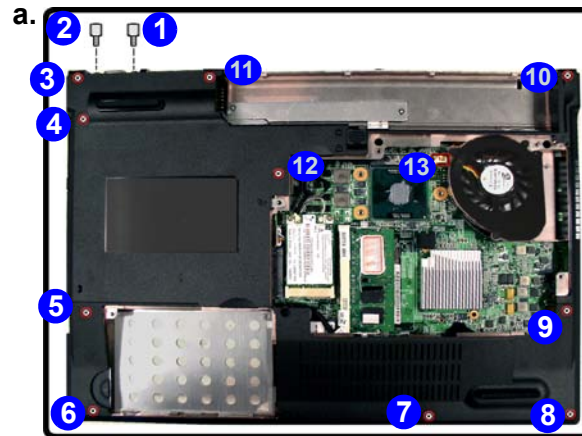
Disassembly

Figure 14
Modem Removal for M540N

- Remove the 12 screws and disconnect the fan cable.
- Remove the bottom case.
- Remove the 2 screws.
- Lift the modem up off the socket and separate the connector from the modem module.
- Remove the modem.

For M540N computers:

- Turn **off** the computer, remove the battery ([page 2 - 5](#)), remove the hard disk ([page 2 - 6](#)) and remove the optical device ([page 2 - 15](#)).
- Remove screws **1** - **12** from the bottom case and carefully disconnect the fan cable **13** from the main board.
- Carefully lift the bottom case **14** ([Figure b](#)) up and off the computer.
- Remove screws **15** - **16** from the modem module.
- Lift the modem up off the socket **17** and carefully separate the connector **18** from the modem.
- Lift the modem up **19** ([Figure e](#)) up and off the computer.



14. Bottom Case
 19. Modem

- 14 Screw

Appendix A:Part Lists

This appendix breaks down the *M540/M545N/M550/M555N/M540N* 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.

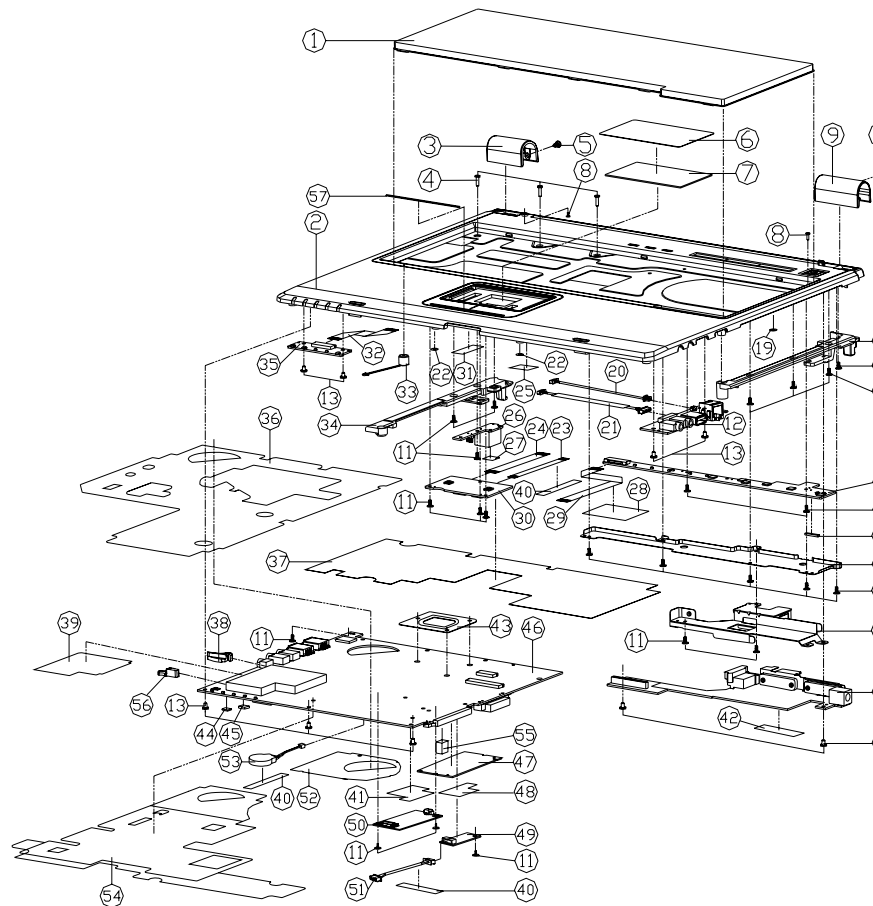
Part List Illustration Location

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

Table A - 1
Part List Illustration
Location

Part	M540/M545N/ M550/M555N
Top - (M550N)	<i>page A - 3</i>
Bottom - (M550N)	<i>page A - 4</i>
LCD - (M550N)	<i>page A - 5</i>
Top - (M555N)	<i>page A - 6</i>
Bottom - (M555N)	<i>page A - 7</i>
LCD - (M555N)	<i>page A - 8</i>
Top - (M540N)	<i>page A - 9</i>
Bottom - (M540N)	<i>page A - 10</i>
LCD - (M540N)	<i>page A - 11</i>
Top - (M545N)	<i>page A - 12</i>
Bottom - (M545N)	<i>page A - 13</i>
LCD - (M545N)	<i>page A - 14</i>

Top (M550N)



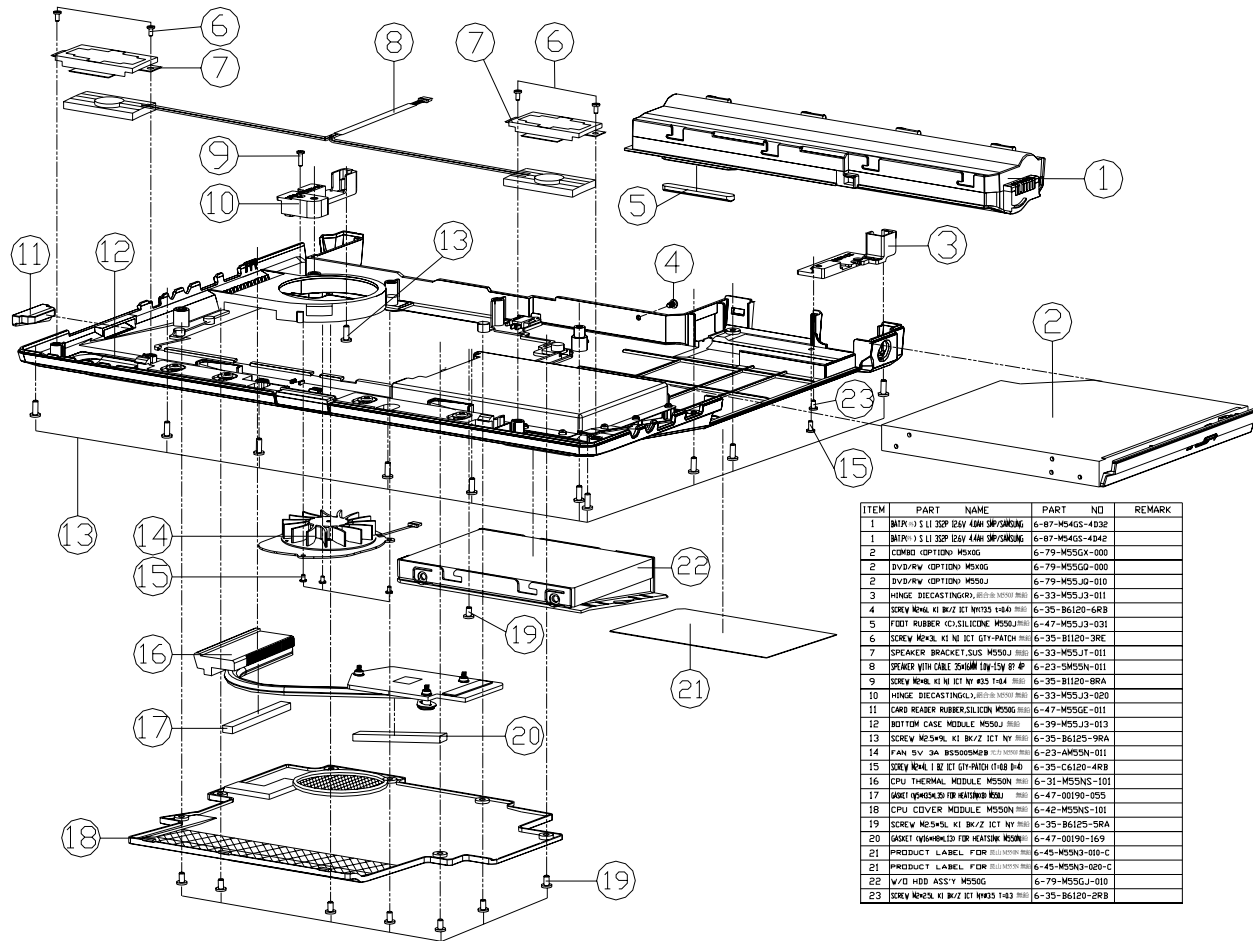
ITEM	PART NAME	PART NO	REMARK
1	KEYBOARD (OPTION) M5X0G	6-80-M55G0-011-1	
2	TOP CASE MODULE M550N	6-39-M5552-013	
3	HINGE COVER (L) PC	6-42-M555Y-020	
4	SCREW M2.5X1 KI BK/Z ICT NY	6-35-B612S-9RA	
5	SCREW M2.5X1 KI BK/Z ICT NY	6-35-B612S-3RE	
6	TOUCH PAD MYLAR M555G	6-40-M5552-010	
7	TOUCH PAD B10409-S103 M550N	6-49-M55N2-010	
8	SCREW M2.5X1 KI BK/Z ICT NY	6-35-B612S-6RB	
9	HINGE COVER (R) PC	6-42-M555Y-010	
10	TOP CASE DIECASTING	6-33-M55J2-021	
11	SCREW M2.5X1 KI NI ICT G1Y-PATCH	6-35-B112S-3RE	
12	AUDIO BOARD V2.0 M550N	6-77-M55NB-004	
13	SCREW M2.5X1 KI BK/Z ICT NY	6-35-B612S-5RA	
14	HOT KEY BOARD V3.0 M550G	6-77-M55GS-003	
15	GASKET (V)HQSALID FOR HOTKEY M550G	6-47-00190-115	
16	HOTKEY BRACKET AL M550G	6-33-M55GB-041	
17	CHANGER BRACKET SECC M550J	6-33-M55J2-011	
18	DC/DC BOARD V3.0 M550N	6-77-M55NC-003A	
19	MYLAR (V)HQSALID W/ASER FOR TOP CASE	6-40-11ASJ-020	
20	WIRE CABLE FOR AUDIO BOARD TO MAIN BOARD	6-43-M55NU-012	
21	WASER (V)HQSALID OVERLAY FOR 3DC LED	6-37-02000-603	
22	FFC CABLE FOR CLICK TO M/B	6-43-M55G0-010	
23	FFC CABLE FOR CLICK TO TOUCH PAD	6-43-M55G2-010	
24	TOUCH PAD GROUND AL FOLDED FOR ENAL	6-47-M55G2-010	
25	LAN BOARD V3.0 M550G	6-77-M55G2-003	
26	GASKET (V)HQSALID FOR LAN M550G	6-47-00190-093	
27	HOTKEY CABLE MYLAR M550G	6-40-M55G2-060	
28	FFC CABLE FOR HOTKEY TO M/B	6-43-M55G0-040	
29	CLICK BOARD V1.0 M550N	6-77-M55NS-001	
30	TOUCH PAD GROUND AL FOLDED FOR ENAL	6-47-M55G2-020	
31	FFC CABLE FOR LED TO M/B	6-43-M55G0-021	
32	MYLAR (V)HQSALID FOR LED TO M/B	6-43-M55G0-010	
33	TOP CASE DIECASTING	6-33-M55J2-031	
34	LED BOARD V3.0 M550G	6-77-M55G4-003	
35	M/B TOP MYLAR A.8825 M550N	6-40-M55NS-050	
36	MYLAR FOR TOP CASE M540G	6-47-M54G2-024	
37	RUBBER A FOR NEW CARD SILICONE M550N	6-47-M55N2-010	
38	M/B NEW CARD MYLAR M550N	6-40-M55NS-010	
39	TAPE MYLAR (A) MYLAR M550J	6-40-M55J2-010	
40	TAPE MYLAR FOR M/B M540G	6-47-M54G2-010	
41	TAPE MYLAR (C) MYLAR M550J	6-40-M55J2-030	
42	CPU SUPPORT BRACKET SUS M550N	6-33-M55NS-020	
43	GASKET (V)HQSALID FOR CARD READER M550J	6-47-00190-076	
44	GASKET (V)HQSALID FOR CARD READER M550J	6-47-00190-088	
45	MAIN BOARD V2.0A M550N	6-77-M55N0-002A	
46	MYLAR (V)HQSALID FOR M/B M540G	6-47-M54G2-024	
47	MYLAR FOR BLUE TOUCH M540G	6-40-M54GS-070	
48	BLUETOOTH 2.0 8 PIN MODULE CUSTOMER HILL	6-88-M55J1-390	
49	MYLAR AZULIA 12 PIN CONEYANT FOR 310 M55	6-88-M55J1-390	
50	MYLAR AZULIA 12 PIN CONEYANT FOR 310 M55	6-88-M55J1-390	
51	MYLAR AZULIA 12 PIN CONEYANT FOR 310 M55	6-88-M55J1-390	
52	WIRE CABLE FOR BLUETOOTH TO M/B	6-43-M55G0-071	
53	M/B BOTTOM USB MYLAR FOR M550J	6-40-M55JS-040	
54	M/B BOTTOM COPPER MODULE M550N	6-23-22015-PC2	
55	RUBBER FOR CPU COVER	6-47-M54JS-020	
56	RUBBER B FOR NEW CARD SILICONE M550N	6-47-M55N2-020	
57	TOUCH PAD COSMETIC BAR M555G	6-40-M5552-020-1	
57	TOUCH PAD COSMETIC BAR M555G	6-40-M5552-020	

Figure A - 1
Top (M550N)

A.Part Lists

Bottom (M550N)

Figure A - 2
Bottom (M550N)



ITEM	PART NAME	PART NO	REMARK
1	BLU-RAY SLI 22P 125W 44W 9W/S/M/NG	6-87-M54GS-4DSR	
1	BLU-RAY SLI 22P 125W 44W 9W/S/M/NG	6-87-M54GS-4D42	
2	COMBO OPT10NO M550G	6-79-M55GX-000	
2	DVD/RW OPT10NO M550G	6-79-M55GQ-000	
2	DVD/RW OPT10NO M550J	6-79-M55JQ-010	
3	HINGE DIECASTING(R), (R) (R) M550N (R)	6-33-M55J3-011	
4	SCREW NHzL KI BK/2 ICT NY#S 1.4X0.7	6-35-B6120-6R8	
5	FOOT RUBBER (C) SILICON M550J (R)	6-47-M55J3-031	
6	SCREW NHzL KI NI ICT CTY-PATCH (R)	6-35-B1120-3RE	
7	SPEAKER BRACKET SLIC M550J (R)	6-33-M55J1-011	
8	SPEAKER VIB CABLE 250MM (R) 15W 8P (R)	6-23-M55N-011	
9	SCREW NHzL KI NI ICT NY #S 1.4X0.7	6-35-B1120-BRA	
10	HINGE DIECASTING(L), (R) (R) M550N (R)	6-33-M55J3-020	
11	CARD READER RUBBER SILICON M550G (R)	6-47-M55GE-011	
12	BOTTOM CASE MODULE M550J (R)	6-39-M55J3-013	
13	SCREW M2.5X0.7 KI BK/2 ICT NY (R)	6-35-B6125-9RA	
14	FAN 5V 3A B550090A08 (C) M550N (R)	6-23-AM55N-011	
15	SCREW NHzL 1.8 ICT (R) NY#S 1.4X0.7 (R)	6-35-C6120-4RB	
16	CPU THERMAL MODULE M550N (R)	6-31-M55NS-101	
17	WAFER (Q)M550N FOR HEATING (R)	6-47-00190-05S	
18	CPU COVER MODULE M550N (R)	6-42-M55NS-101	
19	SCREW M2.5X0.7 KI BK/2 ICT NY (R)	6-35-B6125-5RA	
20	GASKET (Q)M550N FOR HEATING (R)	6-47-00190-169	
21	PRODUCT LABEL FOR (R) M550N (R)	6-45-M55N3-010-C	
21	PRODUCT LABEL FOR (R) M550N (R)	6-45-M55N3-020-C	
22	W/D HDD ASSY M550G	6-79-M55GJ-010	
23	SCREW NHzL KI BK/2 ICT NY#S 1.4X0.7	6-35-B6120-2RB	

LCD (M550N)

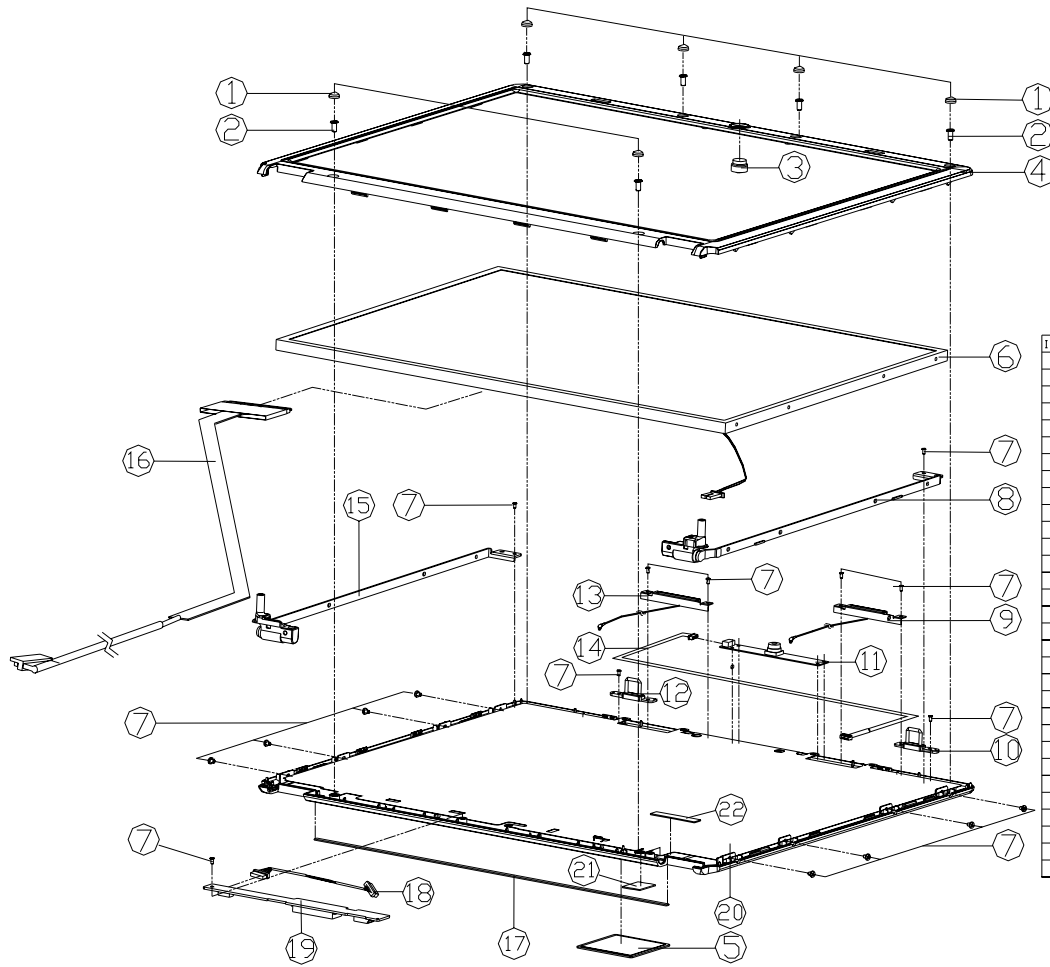


Figure A - 3
LCD (M550N)

ITEM	PART NAME	PART NO	REMARK
1	LCD RUBBER PAD	6-47-D70T1-0C0	
2	SCREW M2.5X4.5 B11 ICT GY-PATCH	6-5-B9125-SRB	
3	W/O CCD RUBBER/RUBBER M550G	6-47-M55GT-020	FDR W/O CCD
4	LCD FRONT COVER MODULE M550G	6-39-M55G1-015-12	
5	LOGO STYLE-NOTE) M555G	6-45-M55S1-020	
5	NAME PLATE M555G	6-45-M55S1-010	
6	LCD T FT AU B150PQ3 V8 SGA+ 6.9M	6-50-L5265-G00	FDR AU
6	LCD T CPT CLAA150XHD1 15" XGA	50-L2260-C01	FDR CPT
6	LCD T CPT CLAA150P303 15" SGA+ 6.9M	50-L5265-C00	FDR CPT
6	LCD T AU B150XG2 V.4 15" XGA 6.4MM	6-50-L2264-G02	FDR AU
6	LCD T AU B150XG1 V.2S-GRAD) 15" XGA 6.8	50-L2260-G03	FDR AU
6	LCD T QDI OD15XL06401) 15" XGA 5.7MM	50-L2257-000	FDR QDI
7	SCREW M2.5 X 4.5 ICT GY-PATCH (1-88 0-40)	6-35-C6120-4RB	
8	LCD BRACKET (R),SUS M550G	6-33-M55G1-012	
9	ANTENNA V-LAN DUAL BAND PIFA 6.9MM BLACK	6-23-7M55G-013	
10	LCD LATCH (R),ZINC M550G	6-33-M55G1-050	
11	ONS VIDEO CAMERA BNC-POD30-0 30K PIXEL	6-88-M56AC-610	(OPTION)
11	ONS VIDEO CAMERA BNC-DV96SP-0-50K 1.5M	6-88-M55GC-612	(OPTION)
12	LCD LATCH (L),ZINC M550G	6-33-M55G1-060	
13	ANTENNA BLUETOOTH DUAL BAND PIFA 9.5MM GRN	6-23-7M55N-010	(OPTION)
14	WIRE CABLE FOR CCD TO M/B SP M550N	6-43-M55N0-021	
15	LCD BRACKET (L),SUS M550G	6-33-M55G1-022	
16	CORIAL CABLE FOR APTSP3030 SGA M550N	6-43-M55N1-020	
16	CORIAL CABLE FOR OPTCLAA150HD1 XGA M550N	6-43-M55N1-010	
17	COSMETIC BAR(BLUE) M555G	6-40-M55S1-020-1	
17	COSMETIC BAR M555G	6-40-M55S1-020	
18	WIRE CABLE FOR INVERTER BOARD TO M/B SP M550N	6-43-M55N0-010	
19	INVERTER MODULE M550G (EPS)	6-76-M55GR-014	
20	LCD BACK COVER MODULE M555G	6-39-M55G1-020-1	
21	PC MYLAR (27*20*0.15+) FDR M540G	6-40-00150-270	
22	PC MYLAR (40*6.5*1T) FDR M550G	6-40-00150-409	

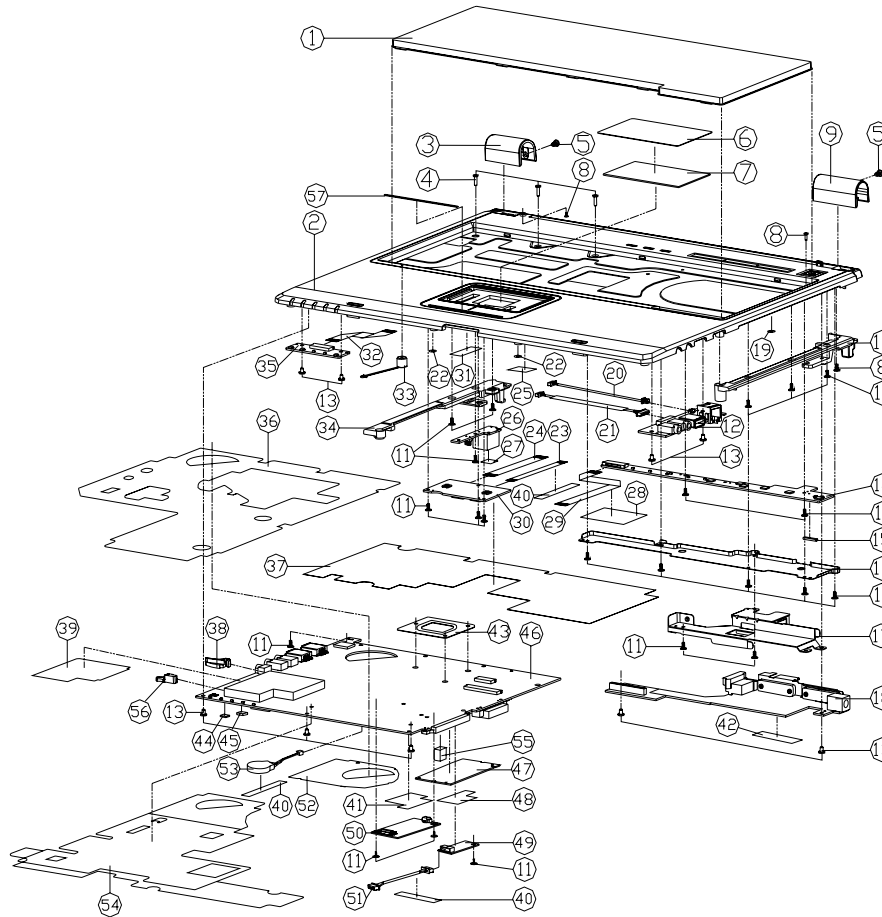
A.Part Lists

Part Lists

Top (M555N)

A. Part Lists

Figure A - 4
Top (M555N)



ITEM	PART NAME	PART NO	REMARK
1	KEYBOARD (OPTION) M550G	6-80-M550G-011-1	
2	TDP CASE MODULE M555N	6-39-M5552-013	
3	HINGE COVER (L) PC-M555N	6-42-M555Y-020	
4	SCREW M2.5X4 KI BK/2 ICT NY	6-35-B6125-9RA	
5	SCREW M2X KI BK/2 ICT NY 0435 T40	6-35-B6120-3RE	
6	TOUCH PAD MYLAR M555G	6-40-M5552-010	
7	TOUCH PAD B10409-S103 M550N	6-49-M55N2-010	
8	SCREW M2X KI BK/2 ICT NY035 T40	6-35-B6120-6RB	
9	HINGE COVER (R) PC-M555N	6-42-M555Y-010	
10	TOP CASE DIECASTING M555N	6-33-M55J2-021	
11	SCREW M2X KI NI ICT QTY-PATCH	6-35-B1120-3RE	
12	AUDIO BOARD V2.0 M550N	6-77-M55N8-004	
13	SCREW M2.5X KI BK/2 ICT NY	6-35-B6125-5RA	
14	HOT KEY BOARD V3.0 M550G	6-77-M55G5-003	
15	GASKET QWMSHLD FOR HOTKEY M550G	6-47-00190-115	
16	HOTKEY BRACKET,AL M550G	6-33-M55G2-041	
17	CHANGER BRACKET,SECC M550J	6-33-M55J2-011	
18	DC/DC BOARD V3.0 M550N	6-77-M55N2-003A	
19	MYLAR WASHMATERIAL WASHER FOR TDP CASE	6-40-11A5J-020	
20	WIRE CABLE FOR AUDIO BOARD TO MAIN BOARD	6-43-M55N0-012	
21	WIRE CABLE FOR AUDIO BOARD TO M/B TOP M550	6-43-M55N0-031	
22	WASHER WASHMATERIAL W/SH FOR DC/DC BOARD	6-37-02000-603	
23	ITC CABLE FOR CLICK TO M/B 4P M550G	6-43-M55G0-010	
24	ITC CABLE FOR CLICK TO TOUCH PAD TOP M550G	6-43-M55G2-010	
25	TOUCH PAD GROND AL FOLDED FOR CPU	6-47-00562-010	
26	LAN BOARD V2.0 M550G	6-77-M55G2-003	
27	GASKET QWMSHLD FOR LAN M550G	6-47-00190-093	
28	HOTKEY CABLE MYLAR/MYLAR M550G	6-40-M55G2-060	
29	ITC CABLE FOR HOTKEY TO M/B 1-12MM TOP M	6-43-M55G0-040	
30	CLICK BOARD V1.0 M550N	6-77-M55N2-001	
31	TOUCH PAD GROND AL FOLDED FOR CPU	6-47-00562-020	
32	ITC CABLE FOR LED TO M/B TOP M550G	6-43-M55G2-021	
33	MICROELECTRONIC FOLDED REVISED	6-23-M55G1-010	
34	TOP CASE DIECASTING ALZIN M550G	6-33-M55J2-031	
35	LED BOARD V3.0 M550G	6-77-M55G4-003	
36	M/B TOP MYLAR A.8835 M550N	6-40-M55N5-050	
37	MYLAR FOR TOP CASE M540G	6-47-M54G2-024	
38	RUBBER A FOR NEW CARD,SILICONE M550N	6-47-M55G2-010	
39	M/B NEW CARD MYLAR M550N	6-40-M55N5-010	
40	TAPE MYLAR (A) MYLAR M550J	6-40-M55J2-010	
41	TAPE MYLAR FOR M/B M540G	6-47-M54G5-010	
42	TAPE MYLAR (C) MYLAR M550J	6-40-M55J2-030	
43	CPU SUPPORT BRACKET,SUS M550N	6-33-M55N5-020	
44	GASKET QWMSHLD FOR CARD READER M550J	6-47-00190-076	
45	GASKET QWMSHLD FOR CARD READER M550J	6-47-00190-088A	
46	MAIN BOARD V2.0A M550N	6-77-M55N0-002A	
47	MYLAR BOUTTOUCH M/B M540G	6-40-M54G5-070	
48	MYLAR FOR BLUE TOUCH M/B M540G	6-40-M54G5-070	
49	BLUETOOTH 2.0 B PIN MODULE G401040N B011	6-88-M55J5-390	
50	MOEM AZALIA 12 PIN CONEANT 002-310 MS	6-88-M55J1-390	
50	MOEM AZALIA 12 PIN OPTICOLA SOLUTION MO	6-88-D45T1-390	
50	MOEM AZALIA 12 PIN CONEANT 002-310 R01	6-88-M55N1-530	
51	WIRE CABLE FOR BLUETOOTH TO M/B 9P M550G	6-43-M55G0-071	
52	M/B BOTTOM USB MYLAR/F83 M550J	6-40-M55J5-040	
53	M/B BOTTOM COPPER MODULE M550N	6-23-22015-P2C	
54	M/B BOTTOM COPPER MODULE M550N	6-33-M55N5-030	
55	RUBBER FOR CPU COVER	6-47-M54J5-020	
56	RUBBER B FOR NEW CARD, SILICONE M550N	6-47-M55N2-020	
57	TOUCH PAD COSMETIC BAR M555G	6-40-M55J2-020-1	
57	TOUCH PAD COSMETIC BAR M555G	6-40-M55J2-020	

Bottom (M555N)

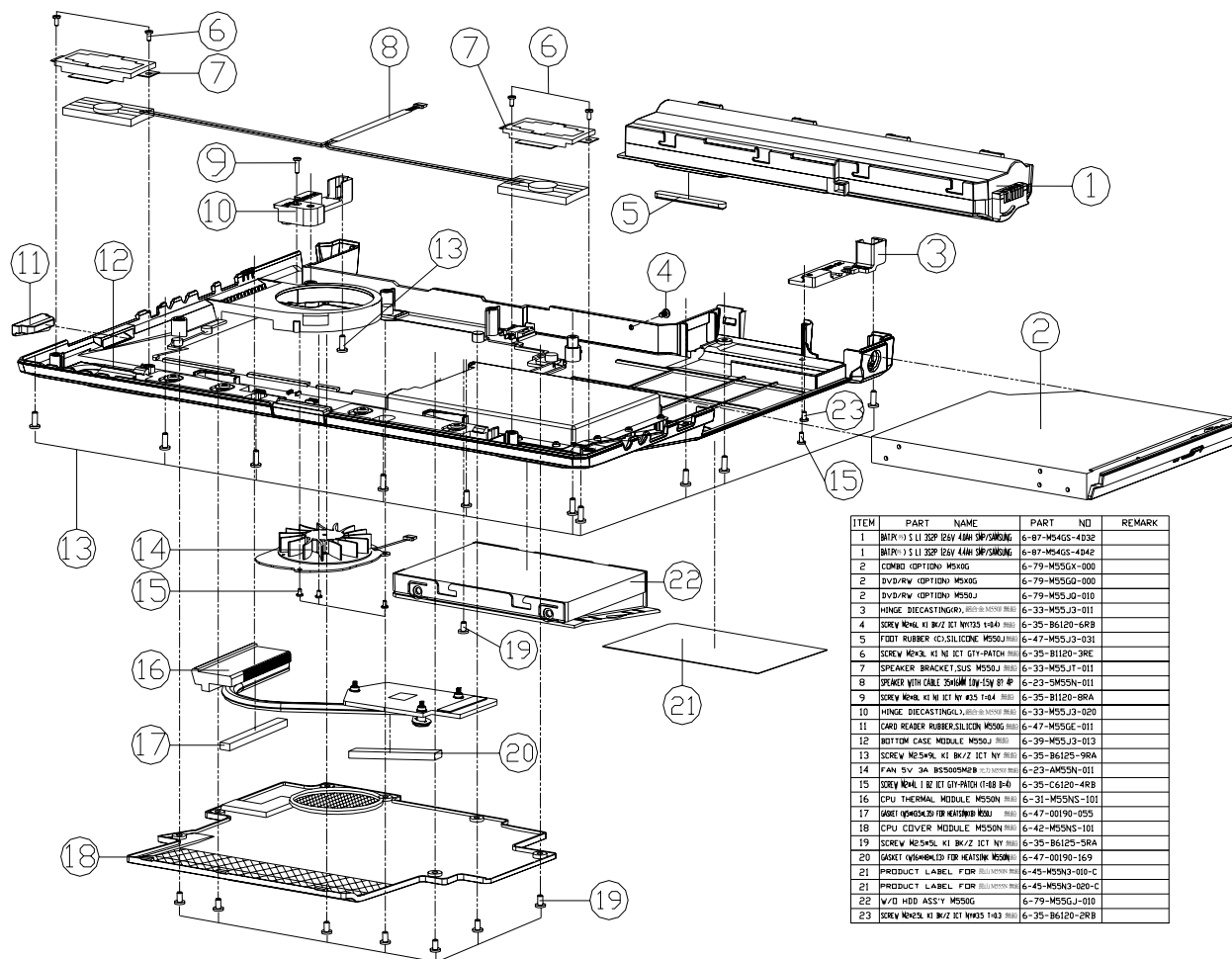


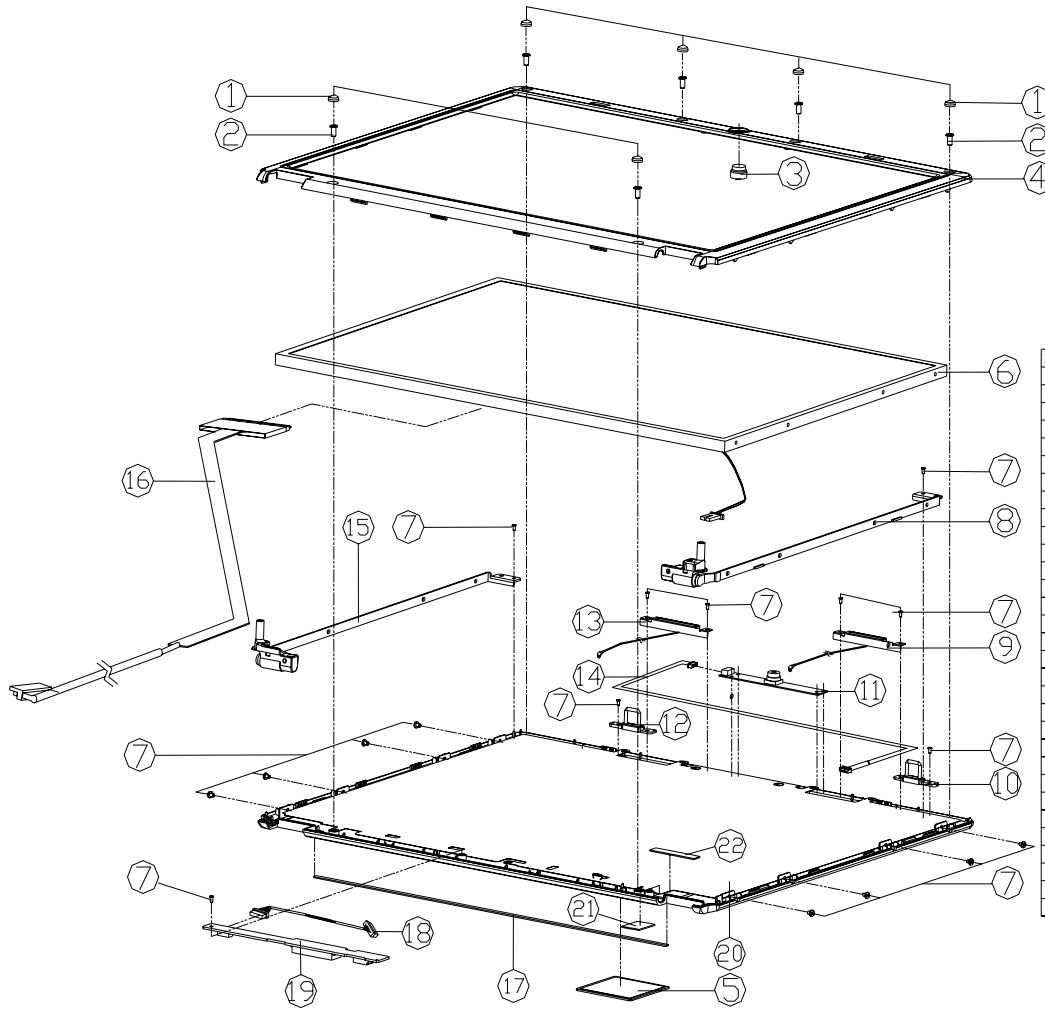
Figure A - 5
Bottom (M555N)

ITEM	PART NAME	PART NO	REMARK
1	BALP113 S L1 32P 125V 40H 5P/SANG	6-87-M54GS-4032	
1	BALP113 S L1 32P 125V 40H 5P/SANG	6-87-M54GS-4042	
2	CDROM OPTICAL M555G	6-79-M55GK-000	
2	DVD-RW OPTICAL M555G	6-79-M55GJ-000	
2	DVD-RW OPTICAL M555J	6-79-M55J3-010	
3	HINGE DIECASTINGAL, 0218 0.1500 0.000	6-33-M55J3-011	
4	SCREW M2X4 KI BK/2 ICT NY13 1.64	6-35-B6120-6R8	
5	FOOT RUBBER (C)SILICONE M550J	6-47-M55J3-031	
6	SCREW M2X4 KI NI ICT GTY-PATCH	6-35-B1120-3RE	
7	SPEAKER BRACKET,SUS M550J	6-33-M55J1-011	
8	SPEAKER WITH CABLE 25MM 10V-15W 81P	6-23-SM55N-011	
9	SCREW M2X4 KI NI ICT NY #3 1.64	6-35-B1120-8RA	
10	HINGE DIECASTINGAL, 0218 0.1500 0.000	6-33-M55J3-020	
11	CARD READER RUBBER,SILICONE M550J	6-47-M55GK-011	
12	BOTTOM CASE MODULE M550J	6-39-M55J3-013	
13	SCREW M2.5X4 KI BK/2 ICT NY	6-35-B6125-9RA	
14	FAN 5V 3A 8550S080R 27.000000	6-23-AM55N-011	
15	SCREW M2X1.5 KI ICT GTPADN (148 14)	6-35-C6120-4R8	
16	CPU THERMAL MODULE M550N	6-31-M55NS-101	
17	GASKET QDS40030 FOR HEATSINK M550N	6-47-00190-055	
18	CPU COVER MODULE M550N	6-42-M55NS-101	
19	SCREW M2.5X4 KI BK/2 ICT NY	6-35-B6125-5RA	
20	GASKET QDS40030 FOR HEATSINK M550N	6-47-00190-169	
21	PRODUCT LABEL FOR M555N	6-45-M55N3-010-C	
21	PRODUCT LABEL FOR M555N	6-45-M55N3-020-C	
22	V/D HDD ASSY M555G	6-79-M55GJ-010	
23	SCREW M2X4 KI BK/2 ICT NY#3 1.64	6-35-B6120-2R8	

A.Part Lists

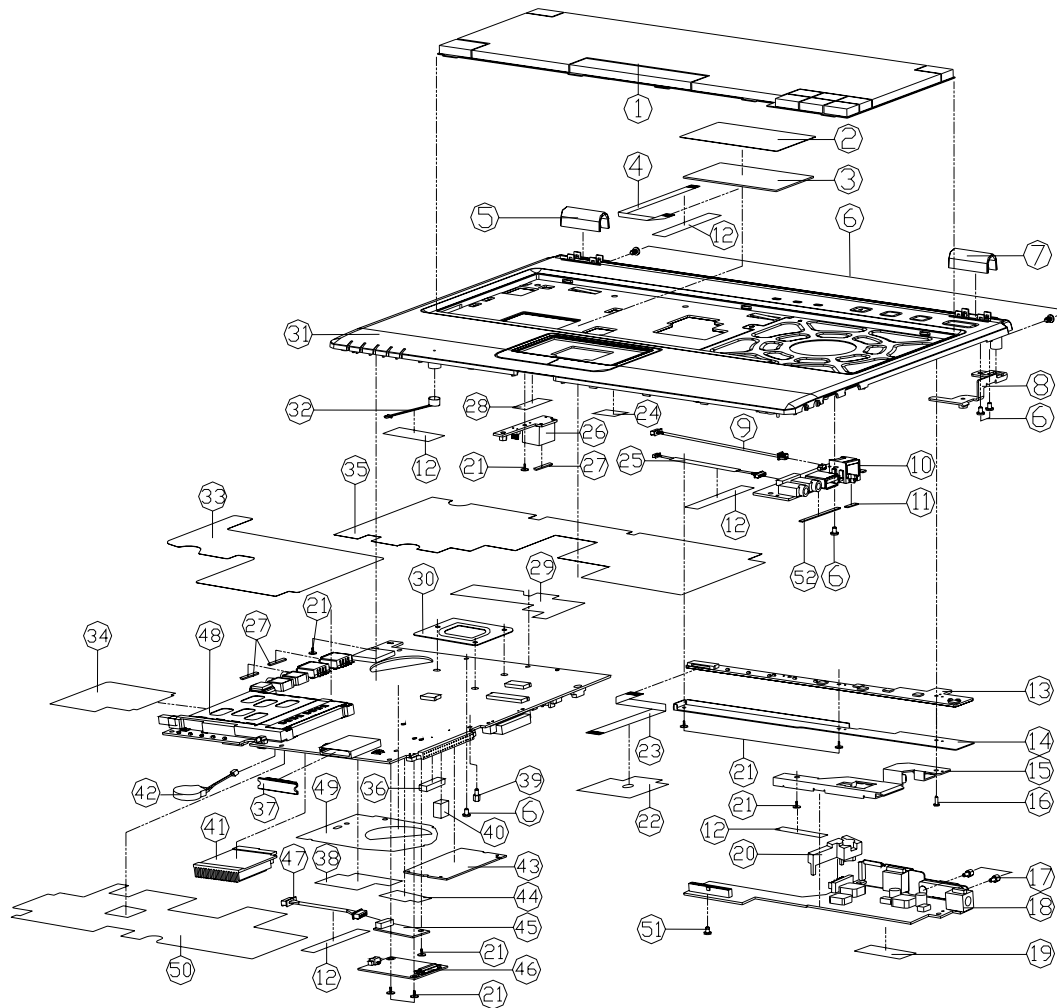
LCD (M555N)

Figure A - 6
LCD (M555N)



ITEM	PART NAME	PART NO	REMARK
1	LCD RUBBER PAD (M555N) (M555N)	6-47-D70T1-0C0	
2	SCREW M2X5L KI AND ICT QTY-PATCH (M555N)	6-5-B9125-5RB	
3	W/O CCD RUBBER,RUBBER M555G	6-47-M55GT-020	FOR W/O CCD
4	LCD FRONT COVER MODULE M555G (M555N)	6-39-M55G1-015-12	
5	SPRING(STYLE-NOTED) M555G (M555N)	6-45-M5551-020	
5	NAME PLATE M555G (M555N)	6-45-M5551-010	
6	LCD 15" TFT AU B150XG2 V0 SXGA+ 6.5MM	6-50-L5265-G00	FDR AU
6	LCD T CPT CLAA150XH01 15" XGA	50-L2260-C01	FDR CPT
6	LCD T CPT CLAA150P03 15" SXGA+ 6.5MM	50-L5265-C00	FDR CPT
6	LCD T AU B150XG2 V4 15" XGA 6.4MM	6-50-L2264-G02	FDR AU
6	LCD T AU B150XG1 V2S-GRABE 15" XGA 6.0	50-L2260-C03	FDR AU
6	LCD T ODI G05X060119 15" XGA 5.7MM	50-L2257-G00	FDR ODI
7	SCREW M2X1 1/2 RT QTY-PATCH (148-D4) (M555N)	6-35-C6120-4RB	
8	LCD BRACKET (R),SUS M555G	6-33-M55G1-012	
9	ANTENNA WLAN DUAL BAND PIFA 6.0MM BLACK (M555N)	6-23-7M55G-013	
10	LCD LATCH (R),ZINC M555G	6-33-M55G1-050	
11	CMOS VIDEO CAMERA INGA-DV960-D-30K PIXEL	6-88-M56AC-610	(OPTION)
11	CMOS VIDEO CAMERA INGA-DV960-D-30K 13M	6-88-M55G1-612	(OPTION)
12	LCD LATCH (L),ZINC M555G	6-33-M55G1-060	
13	ANTENNA BLEETOOTH DUAL BAND PIFA 9.0MM GRN	6-23-7M55N-010	(OPTION)
14	WIRE CABLE FOR CCD TO M/E SP M555N (M555N)	6-43-M55N0-021	
15	LCD BRACKET (L),SUS M555G	6-33-M55G1-022	
16	COSMETIC BAR FOR AEROSPACE(S) SXGA M555N (M555N)	6-43-M55N1-020	
16	COSMETIC BAR FOR EPID(AEROSPACE) XGA M55 (M555N)	6-43-M55N1-010	
17	COSMETIC BAR(BLUE) M555G (M555N)	6-40-M5551-020-1	
17	COSMETIC BAR M555G (M555N)	6-40-M5551-020	
18	WIRE CABLE FOR INVERTER BOARD TO M/E SP M555N (M555N)	6-43-M55N0-010	
19	INVERTER MODULE M555G (EPS)	6-76-M55GR-014	
20	LCD BACK COVER MODULE M555G	6-39-M5551-020-1	
21	PC MYLAR (27X20X0.154) FDR M540G (M555N)	6-40-00150-270	
22	PC MYLAR (40X6.5X1T) FDR M550G (M555N)	6-40-00150-409	

Top (M540N)



ITEM	PART NAME	PART NO	REMARK
1	KEYBOARD COPPER M5X0G	6-80-M55G0-011-1	
2	TOUCH PAD MYLAR T-022 M540G	6-40-M54G2-020	
3	TOUCH PAD 810409-5103 M550N	6-49-M55N2-010	
4	ITC CABLE FOR TOUCH PAD TO M/B M540G	6-43-M54G1-020	
5	HINGE COVER (L) M550N M540G	6-43-M54G1-020	
6	SCREW M2.5x4.1 F NI ICT NY	6-35-B112S-4R0	
7	HINGE COVER (R) M550N M540G	6-42-M54G1-010	
8	TOP CASE SUPPORT GUIDE T-10 M540G	6-33-M54G2-032	
9	WPC CABLE FOR AUDIO BOARD TO MAIN M540N	6-43-M55N1-012	
10	AUDIOD BOARD V5.0 M540N	6-77-M54N8-005	
11	GAGETL2PH4H40 FOR USB BOARD M540N	6-47-00190-12H	
12	TAPE MYLAR (A) MYLAR M550J	6-40-M55J2-010	
13	HOT KEY BOARD V30 M540G	6-77-M54G5-003	
14	HOTKEY SHIELDINGAL T-05 M540G	6-33-M54G2-020	
15	CABLE SUPPORT BRACKET M540J	6-33-M54J2-010	
16	SCREW M2x4.1 NI ICT (045 T-104)	6-35-B0120-4R0	
17	HEX STUD SLM22 NI-PL 10mm	6-34-96002-000	
18	DC/DC BOARD V4.0A M540J	6-77-M54J2-004	
19	TAPE MYLAR (C) MYLAR M550J	6-40-M55J2-030	
20	RUBBER FOR BATTERY CON M540G	6-47-M54G2-011	
21	SCREW M2x4.1 NI ICT GY-PATCH	6-35-B1120-3RE	
22	HOTKEY CABLE MYLAR M540G	6-40-M54G2-070	
23	ITC CABLE FOR HOTKEY BOARD TO M/B M540G	6-43-M54G0-041	
24	TOUCH PAD GROUND AL FOLIO (704) FOR ENAL	6-47-M55G2-010	
25	WPC CABLE FOR AUDIO BOARD TO M/B M540N	6-43-M54N8-010	
26	LAN BOARD V3.0 M550G	6-77-M55G2-003	
27	GAGETL2PH4H40 FOR M/B USB CON M540N	6-47-00190-12E	
28	TOUCH PAD GROUND AL FOLIO (244) FOR ENAL	6-47-M55G2-020	
29	M/B MYLAR FOR KEYBOARD CON M540N	6-40-M54N7-020	
30	CPU SUPPORT BRACKET SUS M550N	6-33-M55N5-020	
31	TOP CASE MIDDLE M540J	6-39-M54J2-010	
32	NYLAR (M) NYLAR FOR M/B TOP SIDE M540G	6-23-EM54G-011	
33	NYLAR FOR M/B TOP SIDE M540G	6-47-M54G5-020	
34	M/B NEW CARD MYLAR M550N	6-40-M55N5-010	
35	MYLAR (M) FOR TOP CASE M540J	6-47-M54G2-024	
36	CPU COVER RUBBER(SILICONE) M550N	6-47-M55N5-010	
37	RUBBER FOR CARD READER M540G	6-47-M54G5-010	
38	NYLAR FOR M/B M540G	6-47-M54G5-010	
39	STUD H-6MM M-25MM FOR M/B M540G	6-34-M54G5-020	
40	RUBBER FOR CPU COVER SUPPORT M540J	6-47-M54J5-020	
41	HEATSINK FOR CHIPSET 9150M M540G	6-31-M54G5-010	
42	BAT 2000 2V 200MAH V-CABLE 5MM 0202021	6-23-2201S-P2C	
43	WLAN B2204HG MINI-CARD PCI-E 2945MG 1	6-88-M66N2-424	
44	MYLAR FOR BLUETOOTH M/B M540G	6-40-M54G5-070	
45	BLUETOOTH 2.0 PIN MODULE G470008N HILLION M550	6-88-M55J5-390	
46	MOUSE ADALIA 12 PIN CONEAVANT 8002-010 M550	6-88-M55J1-390	
47	MOUSE ADALIA 12 PIN CONEAVANT 8002-010 M550	6-88-M55N1-530	
48	WPC CABLE FOR BLUETOOTH TO M/B M550G	6-43-M55G0-070	
49	MAIN BOARD V4.0A M540J	6-77-M54J0-004	
50	M/B BOTTOM USB MYLAR F88 M550J	6-40-M55J5-040	
51	M/B MYLAR FOR BOTTOM M540N	6-40-M54N3-010	
52	SCREW M2.5x4.1 NI ICT NY (0454-05)	6-35-B112S-6RB	
52	GAGETL2PH4H40 FOR USB BOARD M540N	6-47-00190-390	

Figure A - 7
TOP (M540N)

A.Part Lists

Bottom (M540N)

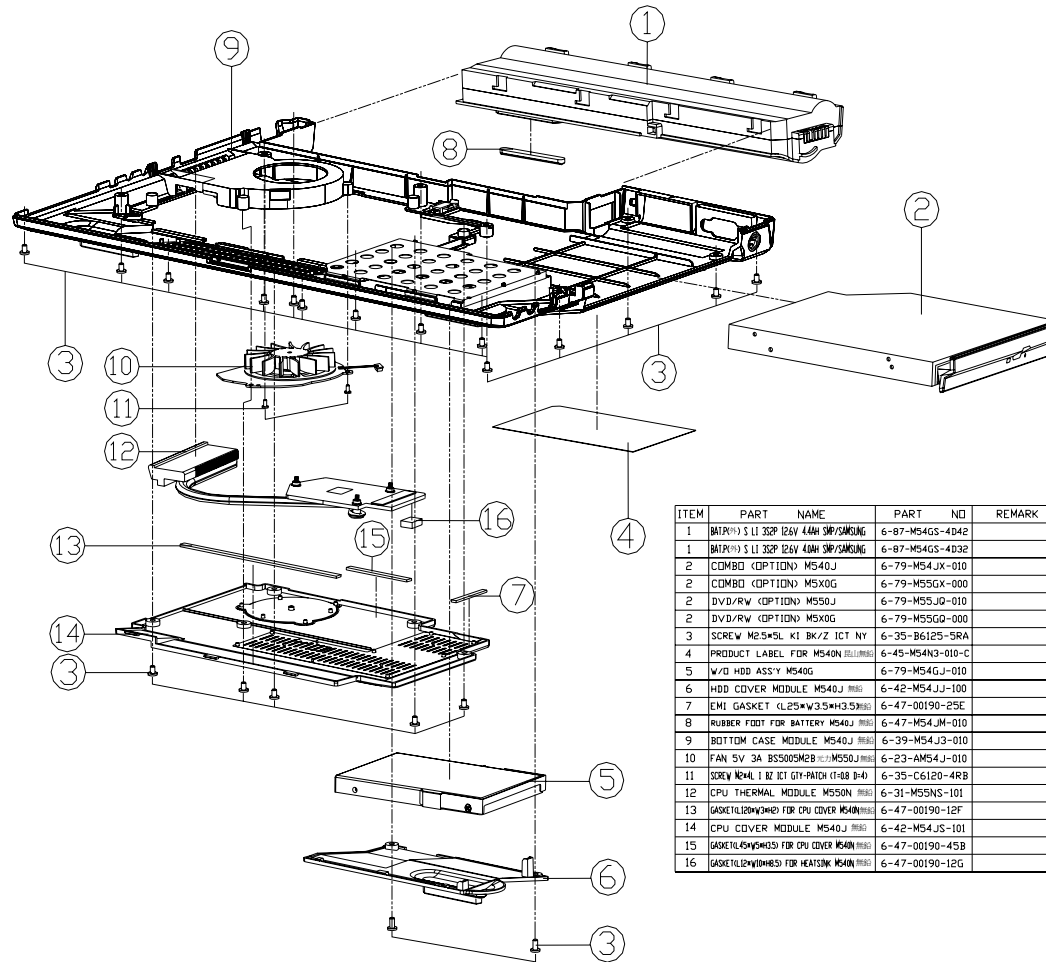


Figure A - 8
Bottom (M540N)

A.Part Lists

ITEM	PART NAME	PART NO	REMARK
1	BATTERY S LI 302P 126V 44AH 30P/SAMSUNG	6-87-M54GS-4042	
1	BATTERY S LI 302P 126V 40AH 30P/SAMSUNG	6-87-M54GS-4032	
2	COMBO (OPTION) M540J	6-79-M54JX-010	
2	COMBO (OPTION) M5X0G	6-79-M55GX-000	
2	DVD/RW (OPTION) M550J	6-79-M55J0-010	
2	DVD/RW (OPTION) M5X0G	6-79-M55G0-000	
3	SCREW M2.5*SL K1 BK/YZ ICT NY	6-35-B6125-SRA	
4	PRODUCT LABEL FOR M540N (ELL) (RHS)	6-45-M54NG-010-C	
5	W/D HDD ASS'Y M540G	6-79-M54GJ-010	
6	HDD COVER MODULE M540J (RHS)	6-42-M54JJ-100	
7	EMI GASKET (L25*W3.5*H3.5)(RHS)	6-47-00190-25E	
8	RUBBER FOOT FOR BATTERY M540J (RHS)	6-47-M54JM-010	
9	BOTTOM CASE MODULE M540J	6-39-M54J3-010	
10	FAN 5V 3A B5500S2B (R/L) M550J (RHS)	6-23-AM54J-010	
11	SOLEV N4M1 BZ ICT GY-PATCH (1*88 B*4)	6-35-C6120-4RB	
12	CPU THERMAL MODULE M550N (RHS)	6-31-M55NS-101	
13	GASKET(L128*W3*H6) FOR CPU COVER M540N (RHS)	6-47-00190-12F	
14	CPU COVER MODULE M540J	6-42-M54JS-101	
15	GASKET(L45*W3*H6.5) FOR CPU COVER M540N (RHS)	6-47-00190-45B	
16	GASKET(L128*W3*H6.5) FOR HEATSINK M540N (RHS)	6-47-00190-12G	

LCD (M540N)

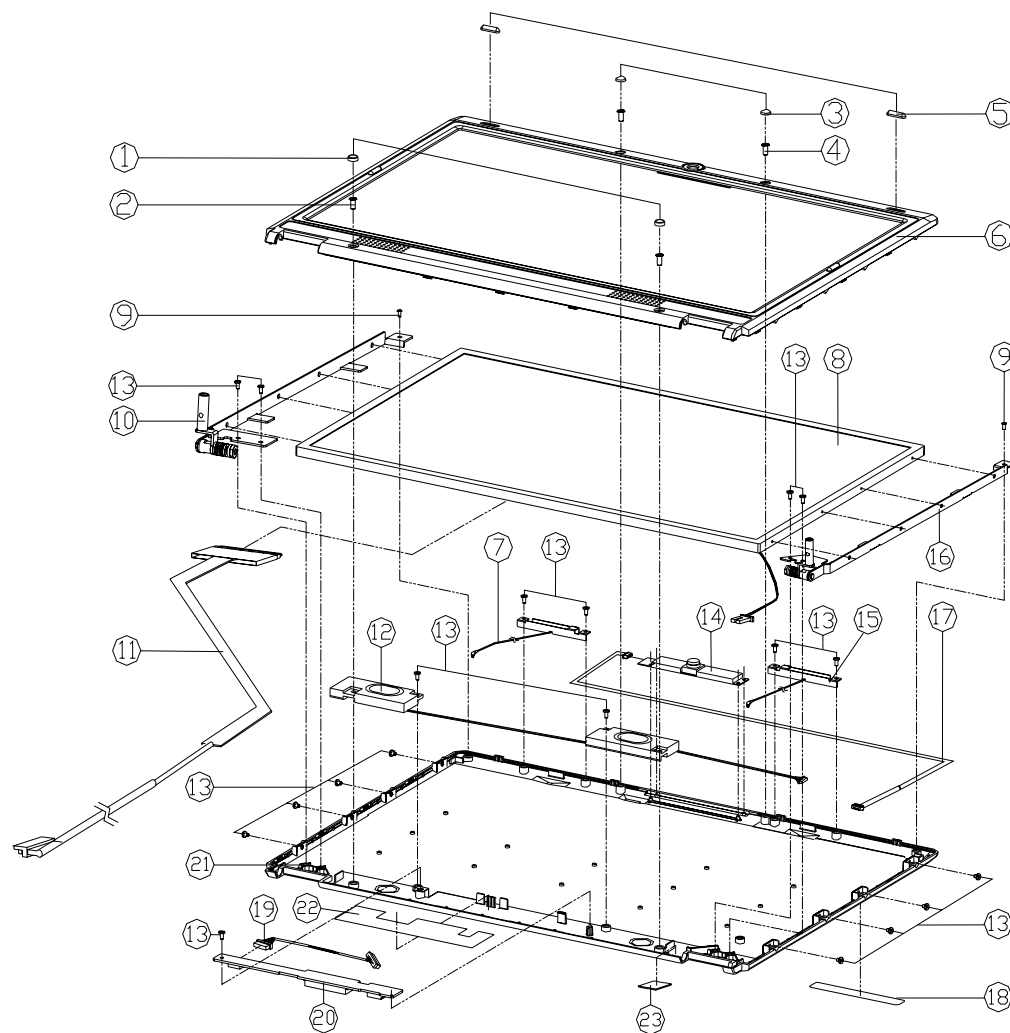


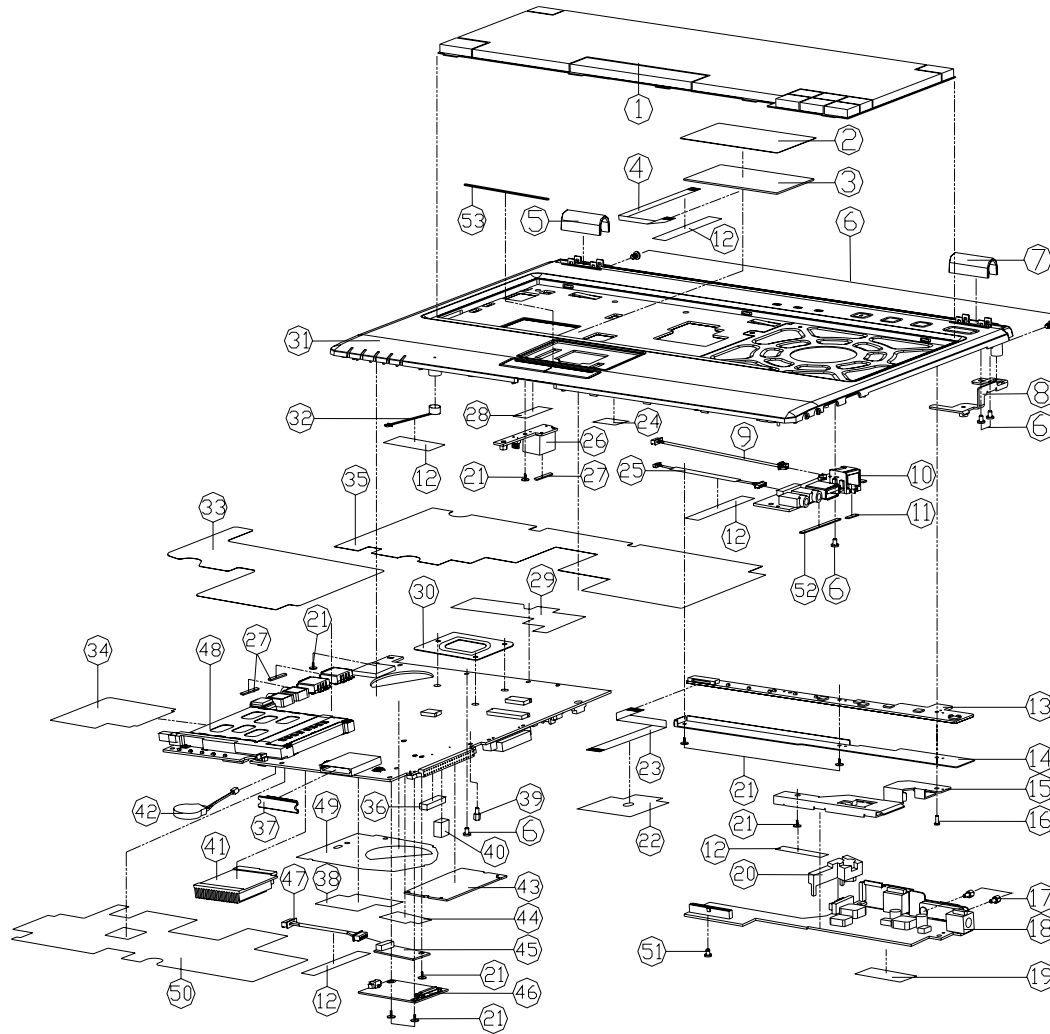
Figure A - 9
LCD (M540N)

ITEM	PART NAME	PART NO	REMARK
1	RUBBER FOR LCD FRONT COVER (CIRCLE) (REF) M540N	6-47-M54G1-030	
2	SCREW M2.5x5L KI BK/Z ICT NY	6-35-B6125-5RA	
3	RUBBER FOR LCD FRONT COVER (CIRCLE) (REF) M540N	6-47-M54G1-041	
4	SCREW M2x5L I BZ ICT	6-35-C6120-5R0	
5	RUBBER FOR LCD FRONT COVER (ELLIPSE) M540N	6-47-M54G1-052	
6	LCD FRONT COVER MODULE M540G (REF)	6-39-M54G1-015-1	
7	ANTENNA BLUETOOTH DUAL BAND PIFA 630MM GRN	6-23-7M54G-022	(OPTION)
8	LCD 14" TFT AU BAREVIEW V0 VIGA 5.7MM	6-50-JC257-G00	FDR AU
8	LCD 14" TFT AU BAREVIEW VIGARE TYPE VIGA 5.7MM	6-50-JC257-G01	FDR AU
8	LCD 14" TFT SAMSUNG LINEAR V-LITE VIGA 5.5MM	50-JC255-M00	FDR SAMSUNG
8	OPT CLAMMANT TAP GARE TYPE VIGA (L2008) LCD (SMM)	6-50-JC257-C01	FDR CPT
9	SCREW M2x4L I NHYD(4.5 T=0.8) (REF)	6-35-C1120-2R0	
10	HINGE (L) M540G (REF)	6-33-M54G1-024	
11	CORNAL CABLE FOR ANTENNA VIGA M540N (REF)	6-43-M54N1-010	
12	POWER PIN CABLE 2X35MM 0.15W @ 0.6-2X35MM 0.15W (REF)	6-23-5M54J-010	
13	SCREW M2x4L I NI ICT NY(REF) SDR (REF) (REF)	6-35-C1120-3R8	
14	CMOS VIDEO CAMERA ENG-PC030-0 300K PIXEL	6-88-M56AC-610	(OPTION)
14	CMOS CAMERA LCM RESOLUTION USB2.0 SERTK	6-88-M66AC-490	(OPTION)
15	ANTENNA V-LAN DUAL BAND PIFA 470MM BLACK	6-23-7M54G-011	
16	HINGE (R) M540G (REF)	6-33-M54G1-014	
17	WIRE CABLE FOR CCD TO M/B M540N (REF)	6-43-M54N0-022	
18	M540G (REF) LCD (STYLE-NOTE)	6-45-M54G1-020	
19	WIRE CABLE FOR INVERTER BOARD TO M/B M540N (REF)	6-43-M54N0-012	
20	INVERTER MODULE (EPS) V14 M550G (REF)	6-76-M55GR-014	
21	LCD BACK COVER MODULE M540G (REF)	6-39-M54G1-024-2	
22	SHIELDING AL FOR INVERTOR M540J (REF)	6-47-M54JS-030	
23	REF (27x20x0.15) FDR M540G (REF)	6-40-00150-270	

A.Part Lists

Top (M545N)

Figure A - 10
TOP (M545N)



ITEM	PART NAME	PART NO	REMARK
1	KEYBOARD (OPTION) M5X0G	6-80-M55G0-011-1	
2	TOUCH PAD MYLAR T+0.22 M540G	6-40-M54G2-020	
3	TOUCH PAD B10409-5103 M550N	6-49-M55N2-010	
4	FFC CABLE FOR TOUCH PAD TO M/B RP M540G	6-43-M54G0-011	
5	HINGE COVER (L)M3660H M540G	6-42-M54GY-020	
6	SCREW M2.5X4L F NI ICT NY	6-35-21125-4R0	
7	HINGE COVER (R)M3660H M540G	6-42-M54GY-010	
8	TOP CASE SUPPORT (R,SUS T=1.0) M540G	6-33-M54G2-032	
9	WIRE CABLE FOR AUDIO BOARD TO MAIN M50N	6-43-M55N0-012	
10	AUDIO BOARD V5.0 M540N	6-77-M54N8-005	
11	GASKET (E)M4545 FOR USB BOARD M540N	6-47-00190-12H	
12	TAPE MYLAR (A)MYLAR M550J	6-40-M55J2-010	
13	HOT KEY BOARD V3.0 M540G	6-77-M54GS-003	
14	HOTKEY SHIELDING AL T=0.5 M540G	6-33-M54G2-020	
15	CABLE SUPPORT BRACKET M540J	6-33-M54J2-010	
16	SCREW M2X4L KI ICT (R45 T=0.4)	6-35-B0120-4R0	
17	HEX STUD SLM22 NI-PL 10mm	6-34-96002-000	
18	DC/DC BOARD V4.0A M540J	6-77-M54JC-004	
19	TAPE MYLAR (C)MYLAR M550J	6-40-M55J2-030	
20	RUBBER FOR BATTERY CON M540G	6-47-M54G2-011	
21	SCREW M2X3L KI NI ICT GTY-PATCH	6-35-B1120-3RE	
22	HOTKEY CABLE MYLAR M540G	6-40-M54G2-070	
23	FFC CABLE FOR HOTKEY BOARD TO M/B M540G	6-43-M54G0-041	
24	TOUCH PAD GROUND AL FOLDED FOR CHAL	6-47-M55G2-010	
25	WIRE CABLE FOR AUDIO BOARD TO M/B RP M540G	6-43-M54N8-010	
26	LAN BOARD V3.0 M550G	6-77-M55G2-003	
27	GASKET (E)M4545 FOR M/B USB CON M540N	6-47-00190-12E	
28	TOUCH PAD GROUND AL FOLDED FOR CHAL	6-47-M55G2-020	
29	M/B MYLAR FOR KEYBOARD CON M540N	6-40-M54N7-020	
30	CPU SUPPORT BRACKET SUS M550N	6-33-M55N5-020	
31	TOP CASE MODULE M545N	6-39-M54N2-010	
32	WIRE CABLE FOR CPU BOARD TO M/B M540G	6-43-M54G0-011	
33	MYLAR FOR M/B TOP SIDE M540G	6-47-M54GS-020	
34	M/B NEW CARD MYLAR M550N	6-40-M55N5-010	
35	MYLAR FOR TOP CASE M540G	6-47-M54G2-024	
36	CPU COVER RUBBER/SILICONE M550N	6-47-M55N5-010	
37	RUBBER FOR CARD READER M540G	6-47-M54GC-010	
38	MYLAR FOR M/B M540G	6-47-M54GS-010	
39	STUD M1.6X M2.5MM FOR M/B M540G	6-34-M54GS-020	
40	RUBBER FOR CPU COVER SUPPORT M540J	6-47-M54JS-020	
41	HEATSINK FOR CHIPSET 9550M M540G	6-31-M54GS-010	
42	WIRE CABLE FOR CPU BOARD TO M/B M540G	6-43-M54G0-011	
43	WIRE CABLE FOR CPU BOARD TO M/B M540G	6-43-M54G0-011	
44	WIRE CABLE FOR CPU BOARD TO M/B M540G	6-43-M54G0-011	
45	WIRE CABLE FOR CPU BOARD TO M/B M540G	6-43-M54G0-011	
46	WIRE CABLE FOR CPU BOARD TO M/B M540G	6-43-M54G0-011	
47	WIRE CABLE FOR CPU BOARD TO M/B M540G	6-43-M54G0-011	
48	WIRE CABLE FOR CPU BOARD TO M/B M540G	6-43-M54G0-011	
49	WIRE CABLE FOR CPU BOARD TO M/B M540G	6-43-M54G0-011	
50	WIRE CABLE FOR CPU BOARD TO M/B M540G	6-43-M54G0-011	
51	SCREW M2.5X4L KI NI ICT NY (R45+0.5)	6-35-B1125-6RB	
52	GASKET (E)M4545 FOR USB BOARD M540N	6-47-00190-12H	
53	TOUCH PAD COSMETIC BAR BLUE FOR CHAL	6-40-M54S2-030	
54	TOUCH PAD COSMETIC BAR (PC)M545G	6-40-M54S2-010	

Bottom (M545N)

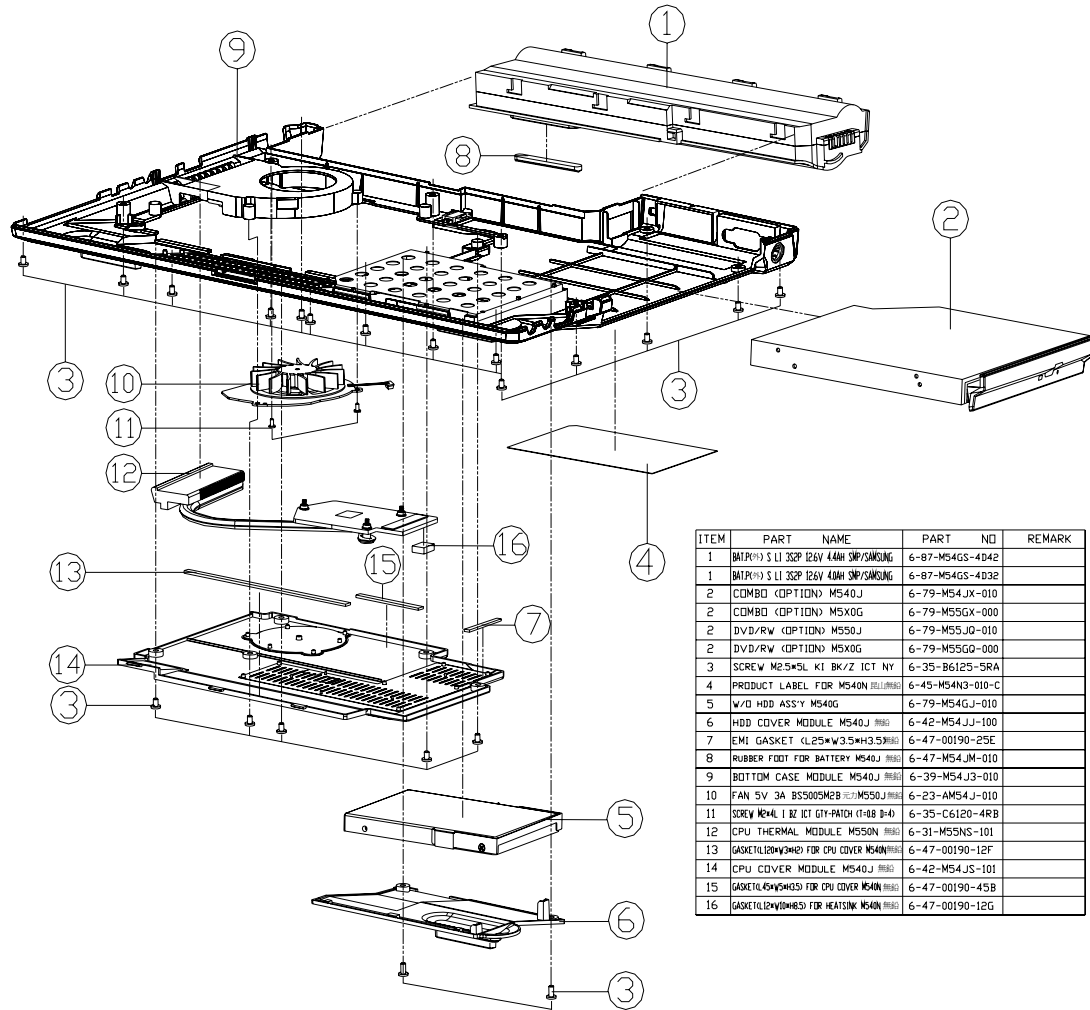


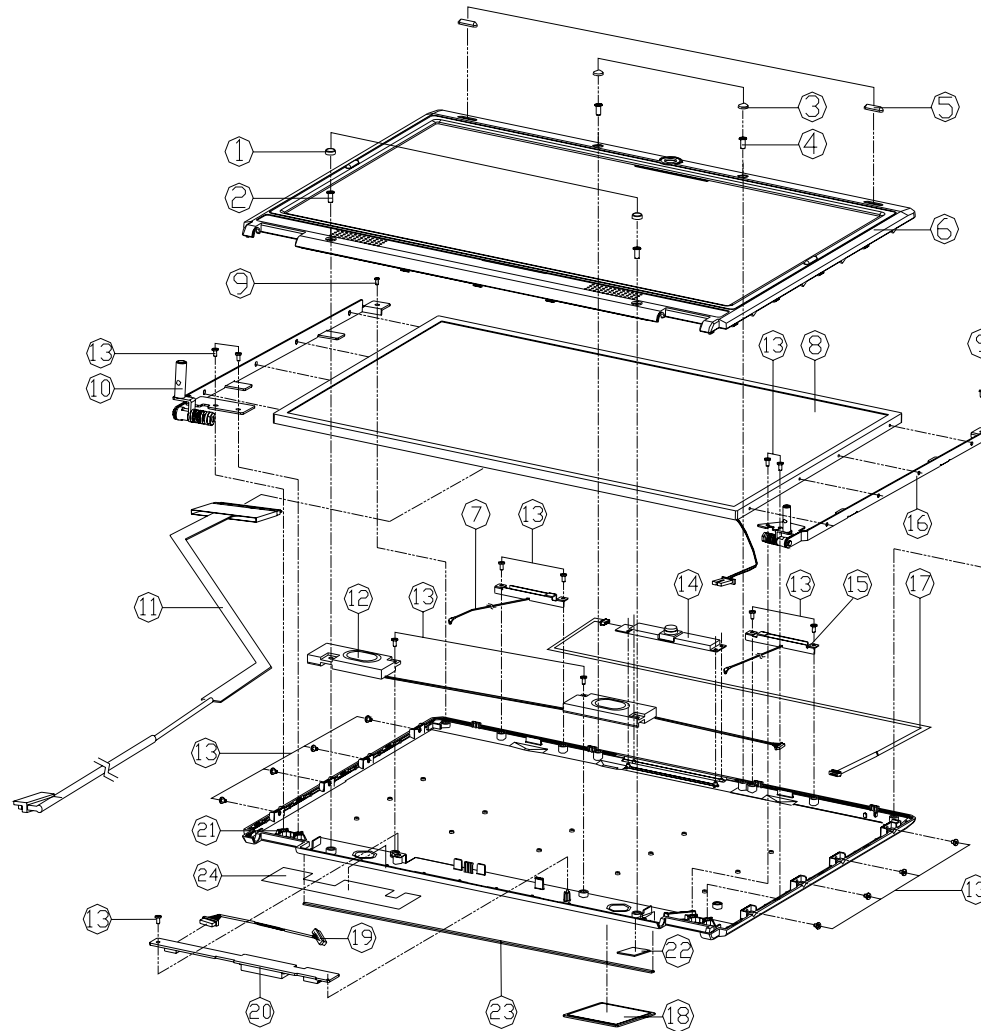
Figure A - 11
Bottom(M545N)

ITEM	PART NAME	PART NO	REMARK
1	BATRY(1) S LI 32P 126V 40H S/P/SMSUNG	6-87-M54GS-4D42	
1	BATRY(1) S LI 32P 126V 40H S/P/SMSUNG	6-87-M54GS-4D32	
2	COMBO (OPTION) M540J	6-79-M54JX-010	
2	COMBO (OPTION) M5X0G	6-79-M55GX-000	
2	DVD/RW (OPTION) M550J	6-79-M55JQ-010	
2	DVD/RW (OPTION) M5X0G	6-79-M55GQ-000	
3	SCREW M2.5x5L K1 BK/Z ICT NY	6-35-B612S-5RA	
4	PRODUCT LABEL FOR M545N (EU/UK)	6-45-M54N3-010-C	
5	W/O HDD ASS'Y M540G	6-79-M54GJ-010	
6	HDD COVER MODULE M540J (HDD)	6-42-M54JJ-100	
7	EMI GASKET (L25*W35*H3.5)(HDD)	6-47-00190-25E	
8	RUBBER FOOT FOR BATTERY M540J (HDD)	6-47-M54JM-010	
9	BOTTOM CASE MODULE M540J (HDD)	6-39-M54J3-010	
10	FAN 5V 3A BS50052B (EU) M550J (HDD)	6-23-AM54J-010	
11	SCREW M2xL 1 RZ ICT G1Y-PATCH (T-08 B-4)	6-35-C6120-4RB	
12	CPU THERMAL MODULE M550N (HDD)	6-31-M55NS-101	
13	GASKET(L20*W30*H2) FOR CPU COVER M54N(HDD)	6-47-00190-12F	
14	CPU COVER MODULE M540J (HDD)	6-42-M54JS-101	
15	GASKET(L45*W40*H3) FOR CPU COVER M54N (HDD)	6-47-00190-45B	
16	GASKET(L24*W10*H3) FOR HEATSINK M54N (HDD)	6-47-00190-12G	

A.Part Lists

LCD (M545N)

Figure A - 12
LCD(M545N)



ITEM	PART NAME	PART NO	REMARK
1	RUBBER FOR LCD FRONT COVER (CIRCLE) (FRONT) M54	6-47-M54G1-030	
2	SCREW M2.5xSL K1 BK/2 ICT NY	6-35-B6125-5RA	
3	RUBBER FOR LCD FRONT COVER (CIRCLE) (FRONT) M54	6-47-M54G1-041	
4	SCREW M2xSL I BZ ICT	6-35-C6120-5R0	
5	RUBBER FOR LCD FRONT COVER (ELLIPSE) M54G	6-47-M54G1-052	
6	LCD FRONT COVER MODULE M540G (FRONT)	6-39-M54G1-015-1	
7	ANTENNA BLUETOOTH DUAL BAND PIFA 630MM GRAY	6-23-7M54G-022	(OPTION)
8	LCD 14" TFT AU INVERTIVE/LG/LR TPO VGA 5.7M	6-50-JC257-G00	FOR AU
8	LCD 14" TFT AU INVERTIVE/LG/LR TPO VGA 5.7M	6-50-JC257-G01	FOR AU
8	LCD 14" TFT SAMSUNG LTN140V1-L01 VGA 5.5M	50-JC255-M00	FOR SAMSUNG
8	DP1 CLAMM/DP1 HP GATE THE VGA 1 200MM LCD 15.0M	6-50-JC257-C01	FOR CPT
9	SCREW M2xSL I NY/HD=4.5 T=0.80 (FRONT)	6-35-C1120-2R0	
10	HINGE (L) M540G (FRONT)	6-33-M54G1-024	
11	CORNAL CABLE FOR ANTI-BLINDING VGA M54N	6-43-M54N1-010	
12	SPEAKER WITH CABLE 25X35MM Ø 15W 4P 0°C	6-23-SM54N-011	
13	SCREW M2xL 1 IN ICT NY (FRONT) (BACK) (FRONT)	6-35-C1120-3R8	
14	CMOS VIDEO CAMERA (ARC-PI000-0) 200K PIXEL	6-88-M56AC-610	(OPTION)
14	CMOS CAMERA 1.5M RESOLUTION USB2.0 SERIAL	6-88-M66AC-490	(OPTION)
15	ANTENNA WLAN DUAL BAND PIFA 470MM BLACK	6-23-7M54G-011	
16	HINGE (R) M540G (FRONT)	6-33-M54G1-014	
17	WIRE CABLE FOR CCD TO M/B M540N (FRONT)	6-43-M54N0-022	
18	M540G (FRONT) (LOGO) (STYLE-NOTE)	6-45-M54G1-020	
19	WIRE CABLE FOR INVERTOR BOARD TO M/B M54N	6-43-M54N0-012	
20	INVERTER MODULE M550G (EPS)	6-76-M55GR-014	
21	LCD BACK COVER MODULE M545G (FRONT)	6-39-M5451-011-1	
22	BEZEL (27x20x0.15) FOR M540G (FRONT)	6-40-00150-270	
23	LCD BACK COVER COSMETIC BARBELED M54G (FRONT)	6-40-M5451-010	
23	LCD BACK COVER COSMETIC BARBELED M54G (FRONT)	6-40-M5451-010-1	
24	SHIELDING AL FOR INVERTOR M540J (FRONT)	6-47-M54JS-030	

Appendix B:Schematic Diagrams

This appendix has circuit diagrams of the *M540/M545N/M550/M555N* 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>ICH7-M 4/4 - Page B - 16</i>	<i>+VCORE - Page B - 30</i>
<i>YONAH 1/2 - Page B - 3</i>	<i>CD-ROM, PC-BEEP, USB2.0*2 - Page B - 17</i>	<i>+1.05VS, +2.5VS - Page B - 31</i>
<i>YONAH 2/2 - Page B - 4</i>	<i>CLOCK GENERATOR, CCD - Page B - 18</i>	<i>+VDD3, +VDD5 - Page B - 32</i>
<i>Calistoga 1/5, HOST - Page B - 5</i>	<i>LAN RTL8110SBL - Page B - 19</i>	<i>D/D BD (CRT, S-VIDEO, RJ-11) - Page B - 33</i>
<i>Calistoga 2/5 - Page B - 6</i>	<i>PCI7412 - Page B - 20</i>	<i>D/D BD(CHARGER, DC IN) - Page B - 34</i>
<i>Calistoga 3/5, DDR - Page B - 7</i>	<i>PCM SOCKET, 3 IN 1 SOCKET - Page B - 21</i>	<i>AUDIO BD(JACK, RJ-11, USB) - Page B - 35</i>
<i>Calistoga 4/5 - Page B - 8</i>	<i>T8510TE/ GX-L - Page B - 22</i>	<i>HOT KEY BD(HOTKEY, LED) - Page B - 36</i>
<i>Calistoga 5/5 - Page B - 9</i>	<i>ISA BIOS, MINI CARD, NEW CARD - Page B - 23</i>	<i>LED BOARD - Page B - 37</i>
<i>DR11 SO-DIMM 0 - Page B - 10</i>	<i>TOUCH PAD, LED - Page B - 24</i>	<i>CLICK BOARD - Page B - 38</i>
<i>DDR11 SO-DIMM 1 - Page B - 11</i>	<i>AZALIA CODEC AL880 - Page B - 25</i>	<i>RJ-45 BOARD - Page B - 39</i>
<i>PANEL, BRIDGE BATTERY, FAN - Page B - 12</i>	<i>AUDIO AMP, USB2.0 - Page B - 26</i>	<i>USB DANGLE BOARD - Page B - 40</i>
<i>ICH7-M 1/4, SATA - Page B - 13</i>	<i>MDC, BT, PWRGD, DDB CON - Page B - 27</i>	<i>H8/2111 - Page B - 41</i>
<i>ICH7-M 2/4, PCI, USB - Page B - 14</i>	<i>SYSTEM POWER - Page B - 28</i>	<i>EXT.COM PORT - Page B - 42</i>
<i>ICH7-M 3/4, FWH - Page B - 15</i>	<i>+1.8V, +VTT MEM, +1.5VS - Page B - 29</i>	

Table B - 1
**Schematic
Diagrams**

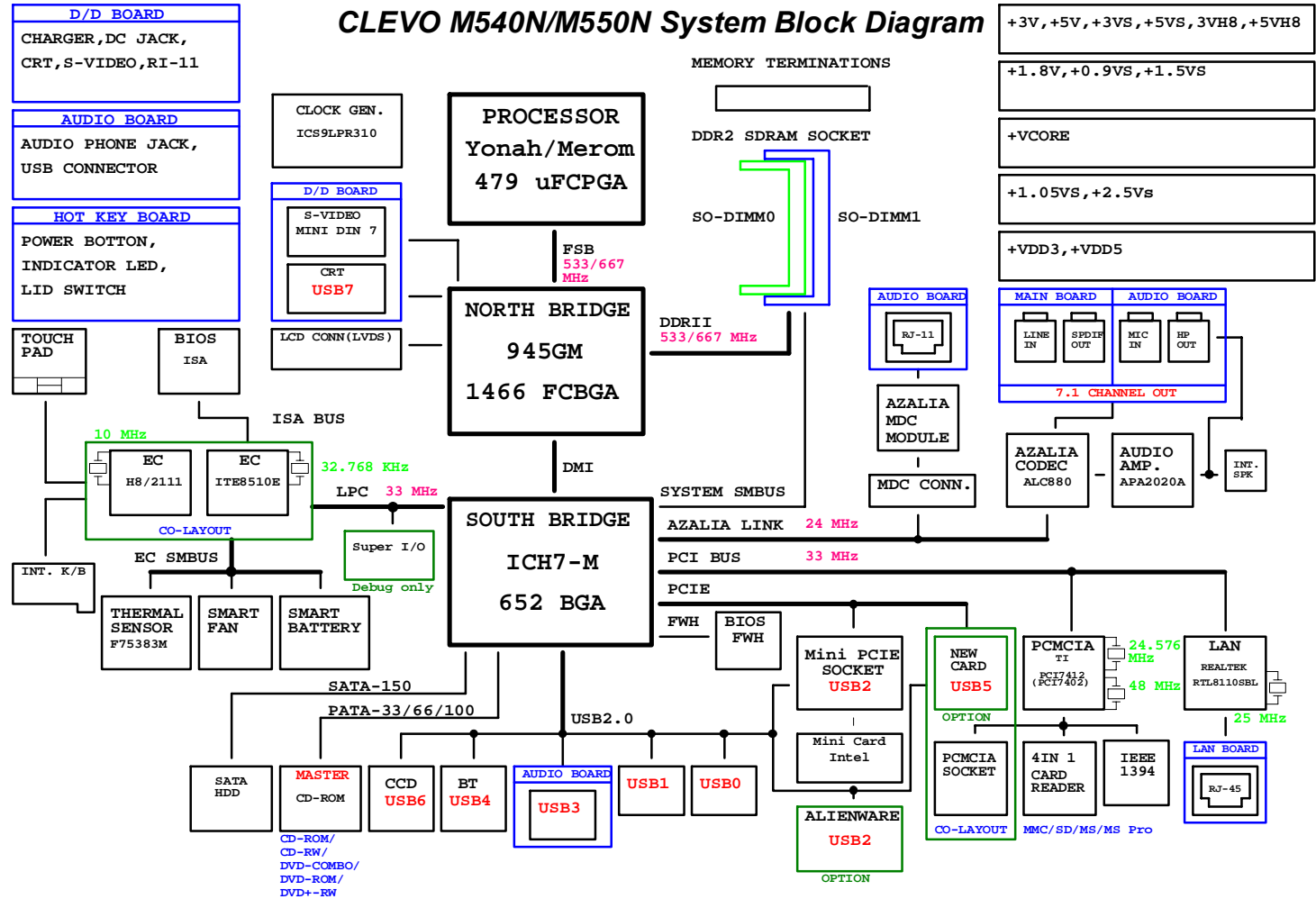


Version Note

The schematic diagrams in this chapter are based upon version **71-M55N0-002A**. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

System Block Diagram

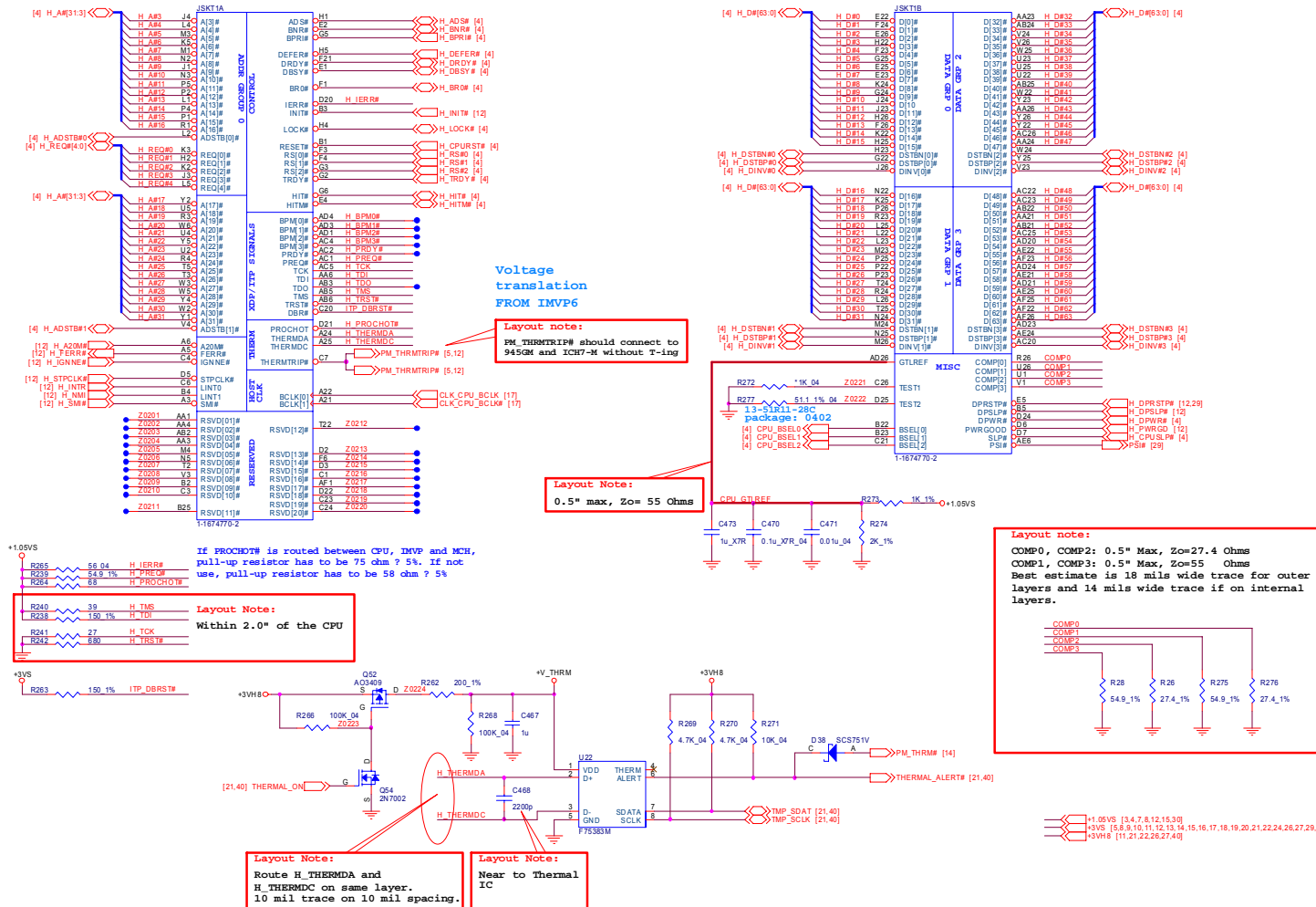
Sheet 1 of 41
System Block
Diagram



YONAH 1/2

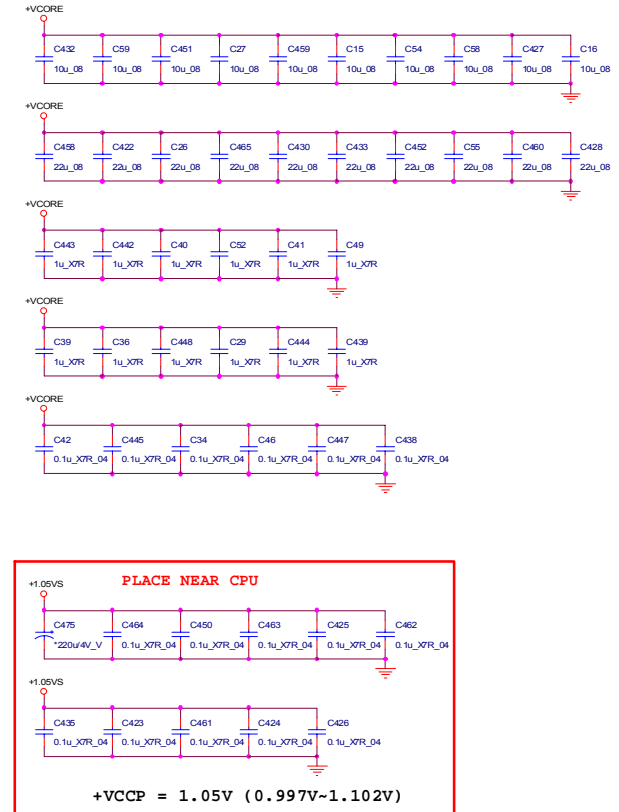
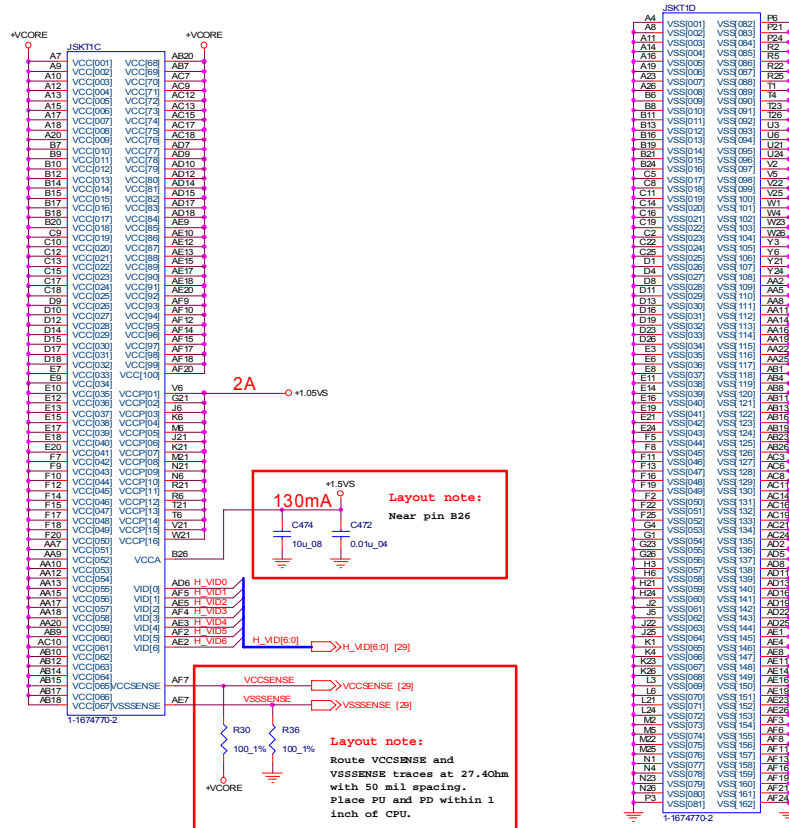
Sheet 2 of 11
YONAH 1/2

B.Schematic Diagrams

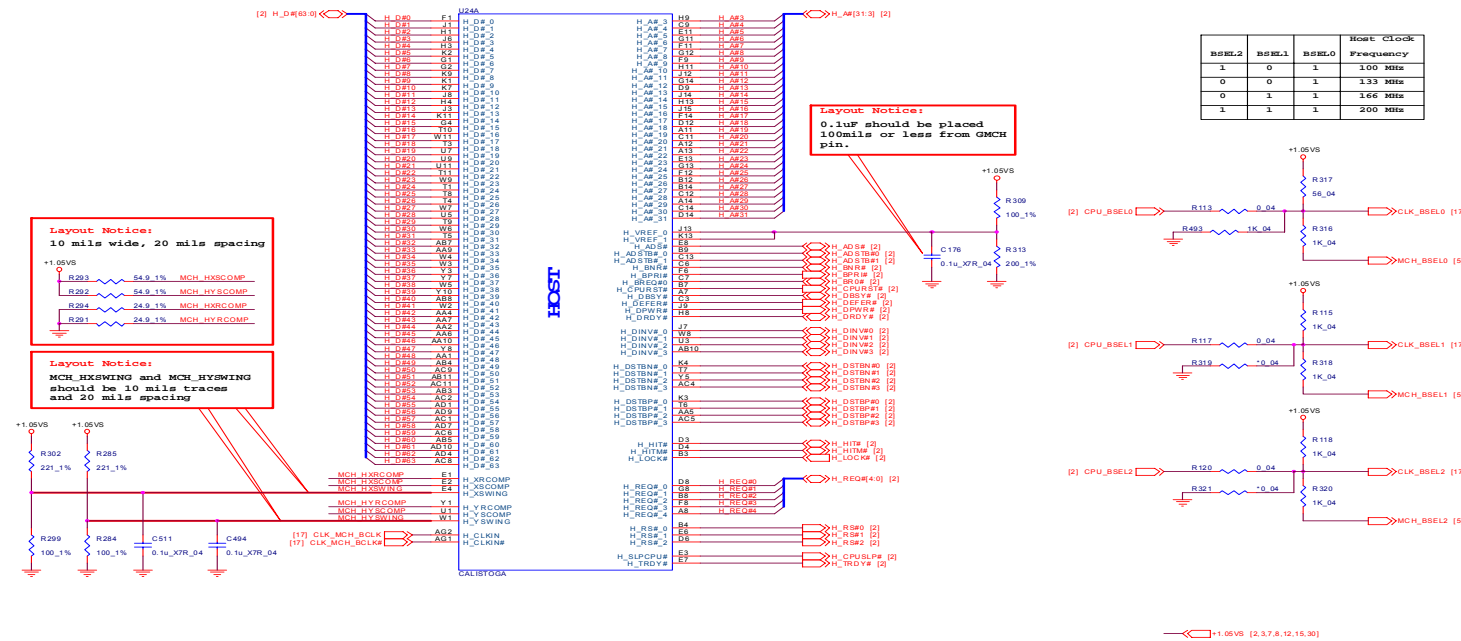


YONAH 2/2

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YONAH 2/2



Calistoga 1/5, HOST

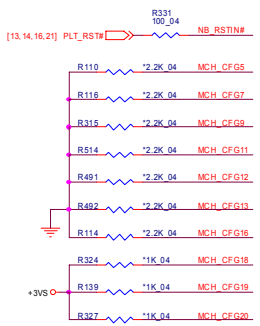
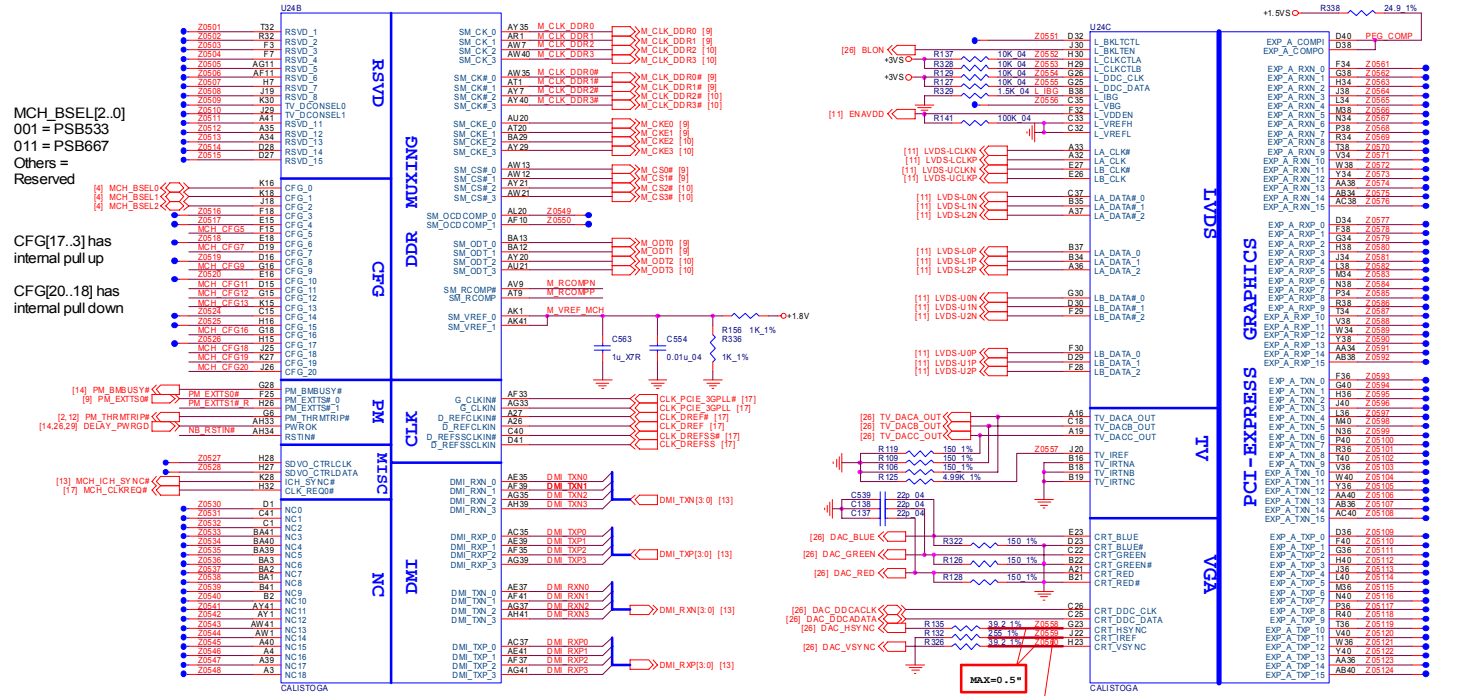


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Calistoga 1/5,
HOST

B. Schematic Diagrams

Calistoga 2/5

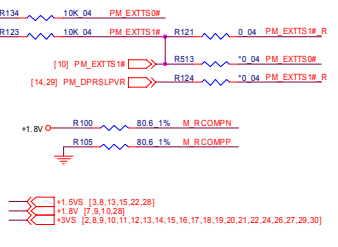
Sheet 5 of 41
Calistoga 2/5



Calistoga Strapping	LOW	HIGH
MCH_CFG5	DMiX2	DMiX4
MCH_CFG7 (CPU Strap)	RSVD	Mobile CPU
MCH_CFG9 (PCIe Graphics Lane)	Reverse Lane	Normal operation
MCH_CFG11 (PSB 4X CLK ENABL)	RSVD	8X ENABLE
MCH_CFG12		
MCH_CFG13		
MCH_CFG16 (FSB Dynamic ODT)	Disable	Enable
MCH_CFG18 (VCC select)	1.05V	1.5V
MCH_CFG19 (DMI Lane reversal)	Normal	Lanes reversed
MCH_CFG20 (PCIe backward interoperability mode)	Only SDVO or PCIe x1 is operational	SDVO and PCIe x1 are operating simultaneously via the PEG port

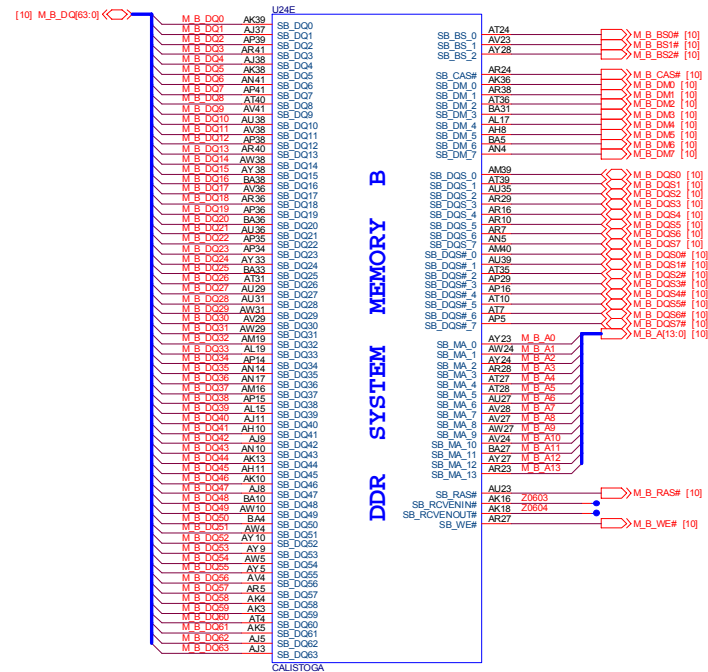
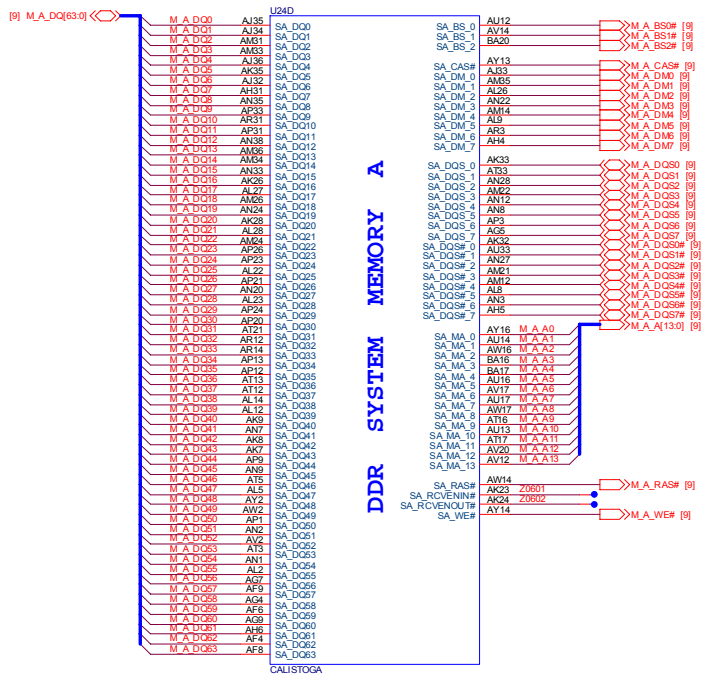
Layout notes:

- M_CLK_DDR0:** C773 Very close to U24.AY35 & U24.AM35
- M_CLK_DDR1:** C774 Very close to U24.AR1 & U24.AT1
- M_CLK_DDR2:** C775 Very close to U24.AW7 & U24.AY7
- M_CLK_DDR3:** C776 Very close to U24.AW40 & U24.AY40



Minimize REFSET routing length and shield with VSS

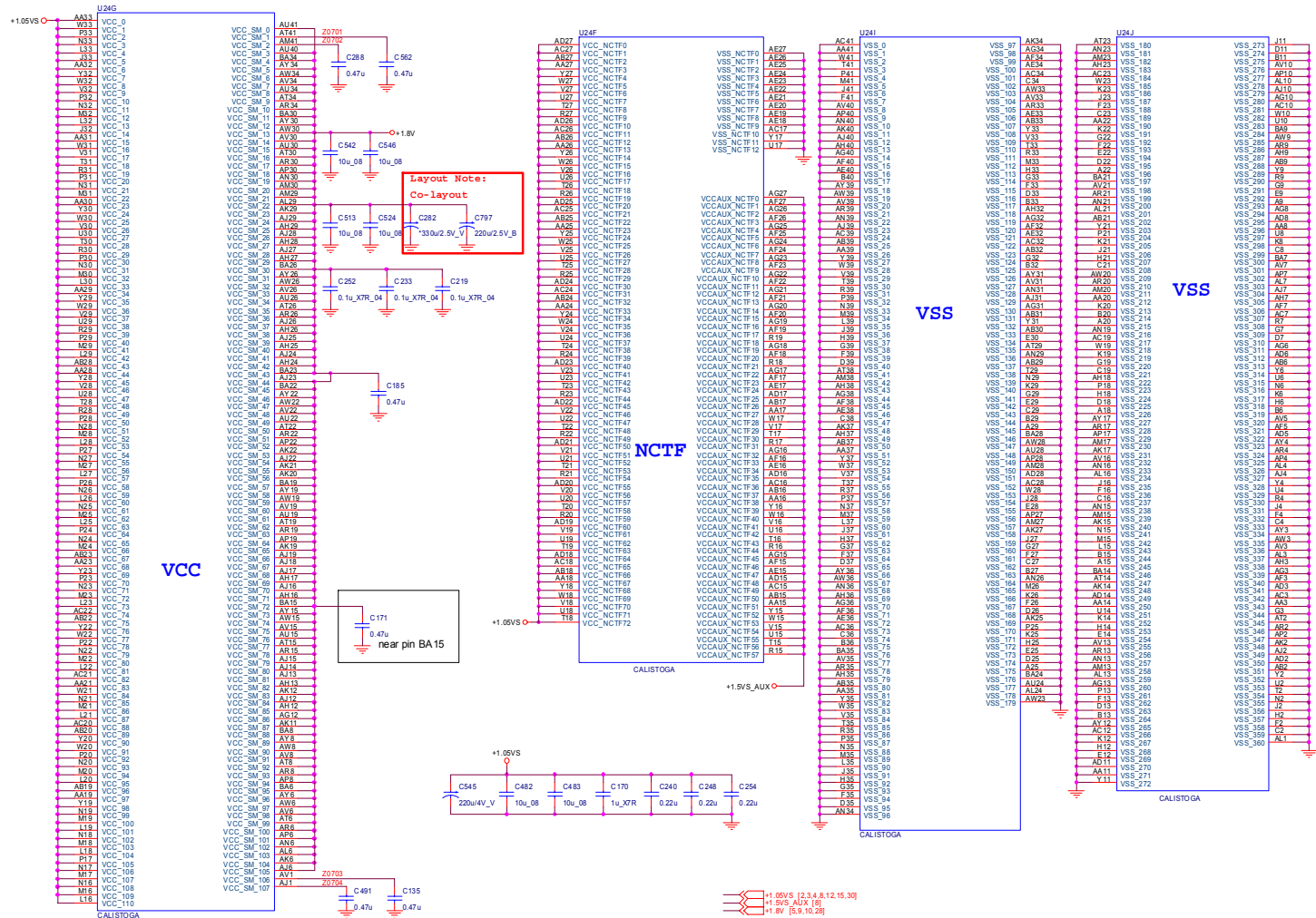
Calistoga 3/5, DDR



Sheet 6 of 41
Calistoga 3/5, DDR

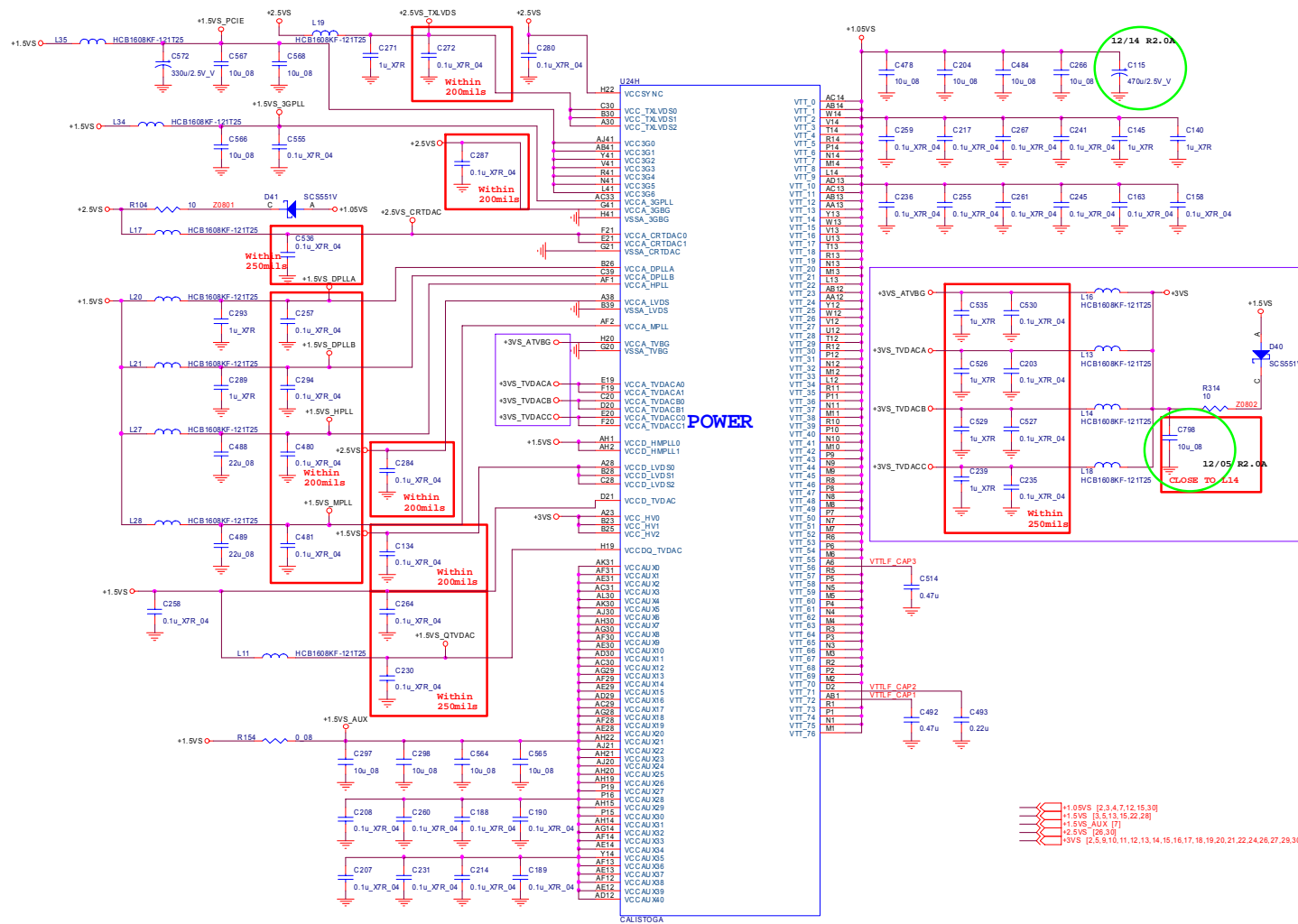
Calistoga 4/5

Sheet 7 of 41
Calistoga 4/5



Calistoga 5/5

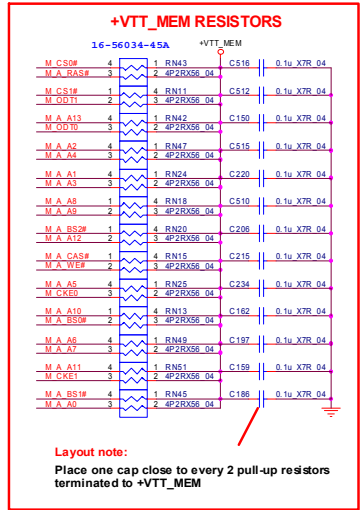
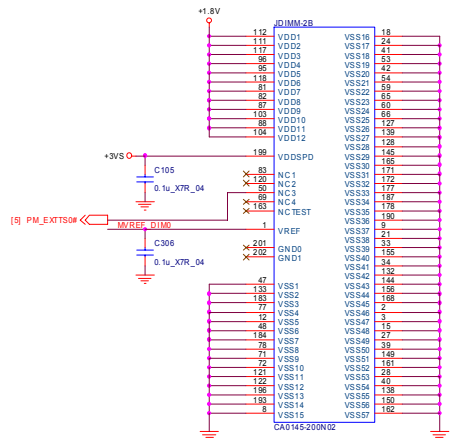
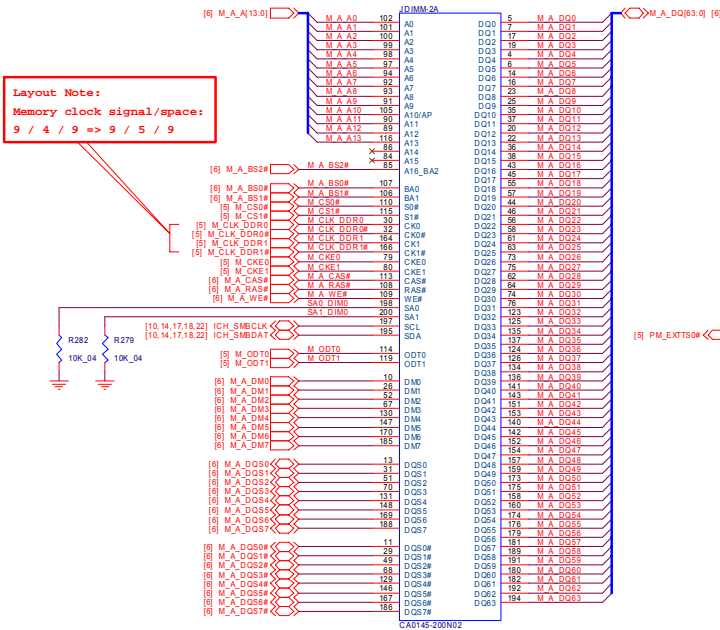
B. Schematic Diagrams



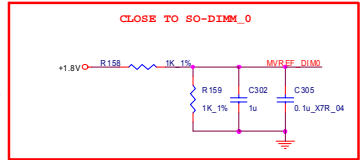
Sheet 8 of 41
Calistoga 5/5

DR11 SO-DIMM 0

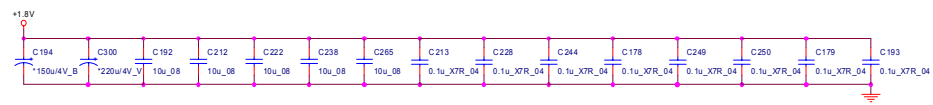
Sheet 9 of 41
DR11 SO-DIMM 0



Layout note:
Place one cap close to every 2 pull-up resistors terminated to +VTT_MEM

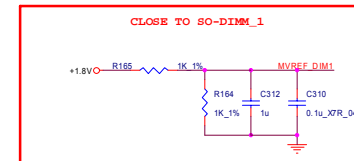
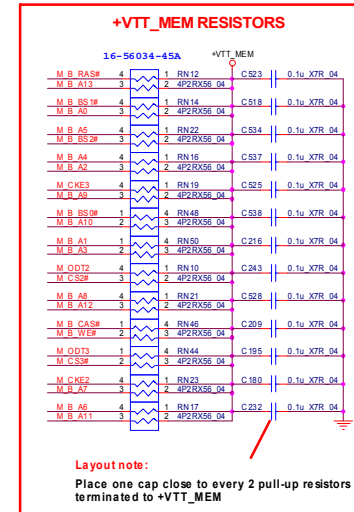
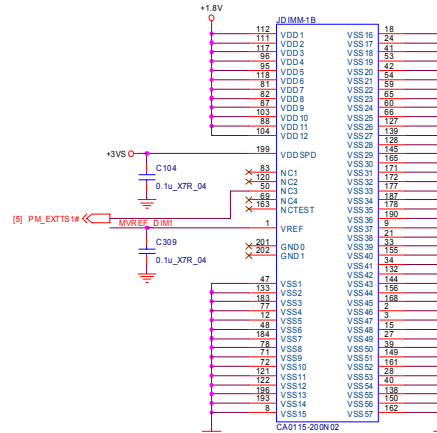


Legend:
 +1.8V [5,7,10,28]
 +3VS [2,5,8,10,11,12,13,14,15,16,17,18,19,20,21,22,24,26,27,29,30]
 +VTT_MEM [10,28]

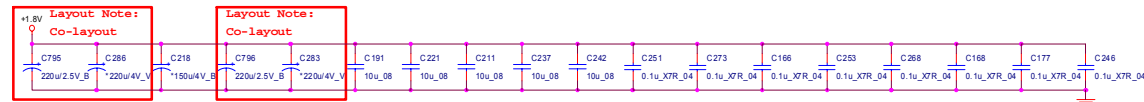


DDRII SO-DIMM 1

Layout Note:
Memory clock signal/space:
9 / 4 / 9 => 9 / 5 / 9



Layout note:
SO-DIMM_1 is placed farther from the GMCF than SO-DIMM_0

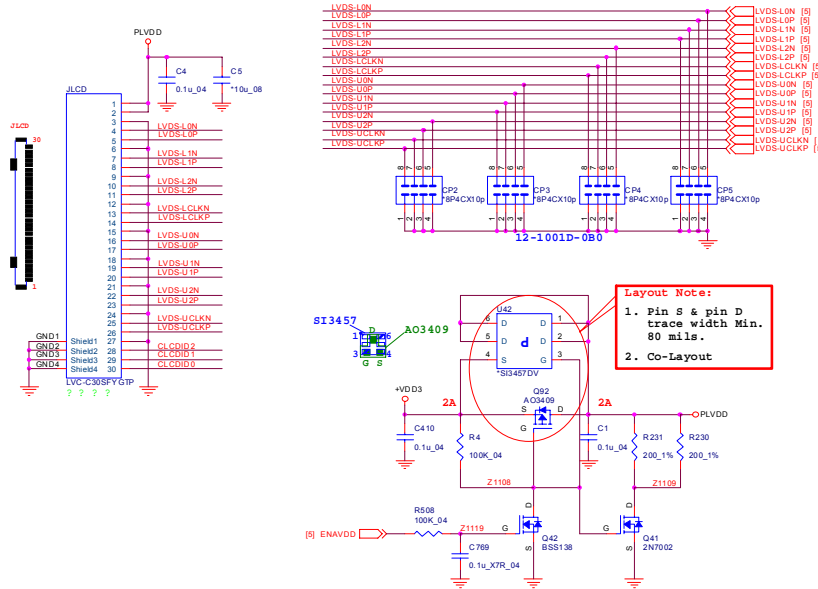


B.Schematic Diagrams

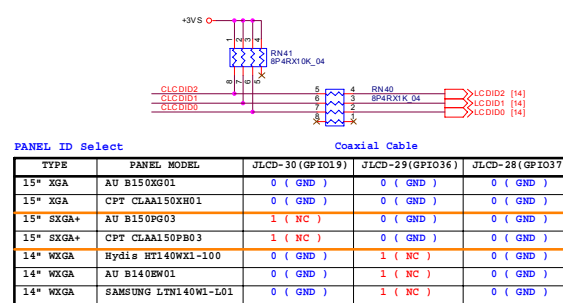
Sheet 10 of 41
DDRII SO-DIMM 1

PANEL, BRIDGE BATTERY, FAN

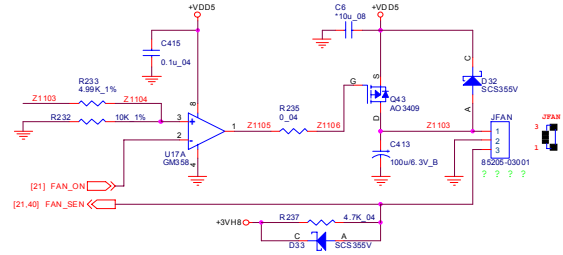
PANEL



PANEL ID SELECTOR

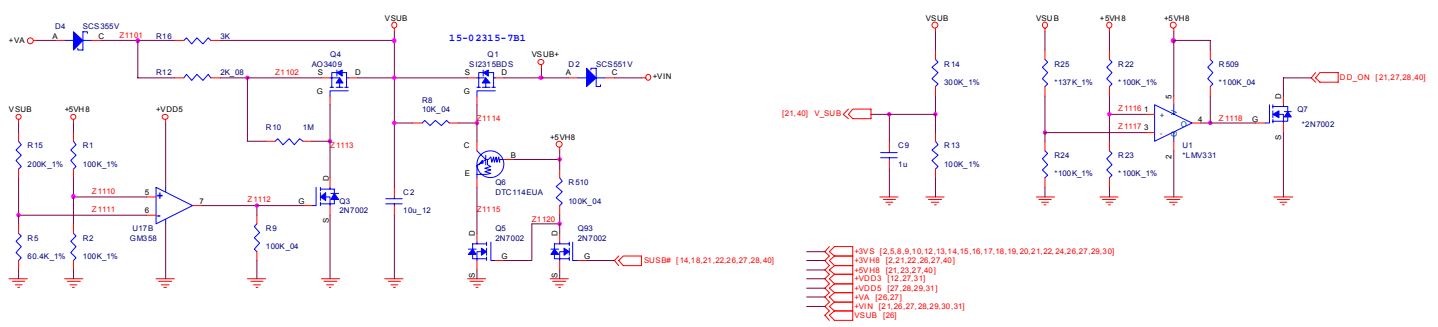


FAN CONTROL



BRIDGE BATTERY

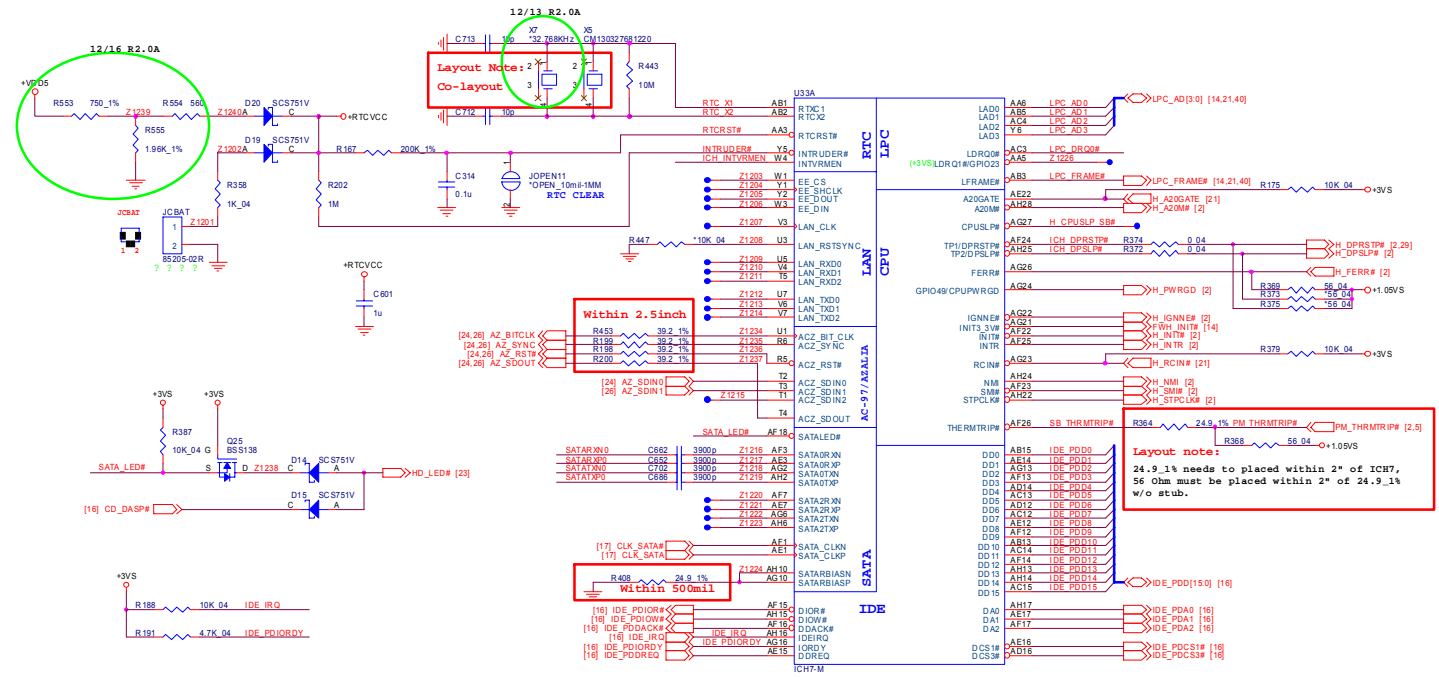
FOR M550N



B.Schematic Diagrams

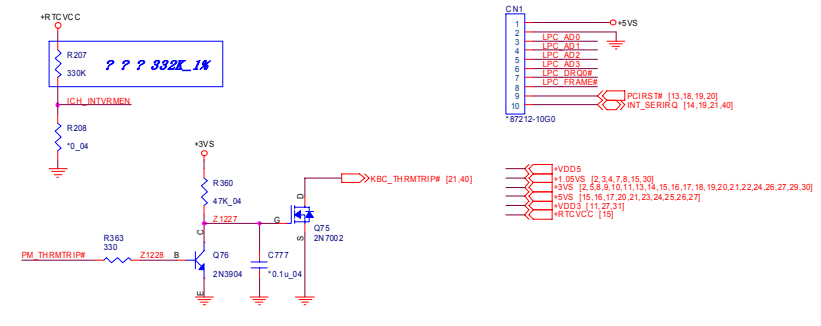
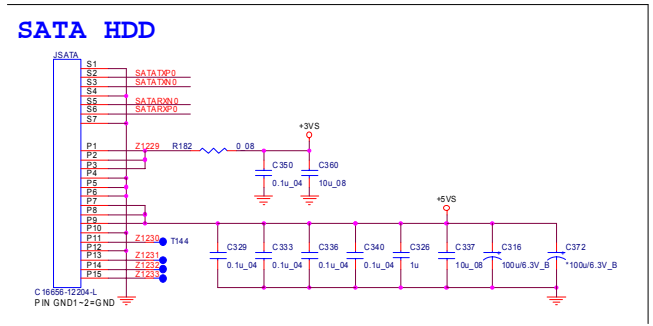
Sheet 11 of 41
PANEL, BRIDGE
BATTERY, FAN

ICH7-M 1/4, SATA



Sheet 12 of 41
ICH7-M 1/4, SATA

B.Schematic Diagrams



ICH7-M 2/4, PCI, USB

	ICH7 Boot BIOS select		
	Strap	GNT5# _{RA}	GNT4# _{RB}
LPC(default)	11	Unstuff	Unstuff
PCI	10	Unstuff	Stuff
SPI	01	Stuff	Unstuff

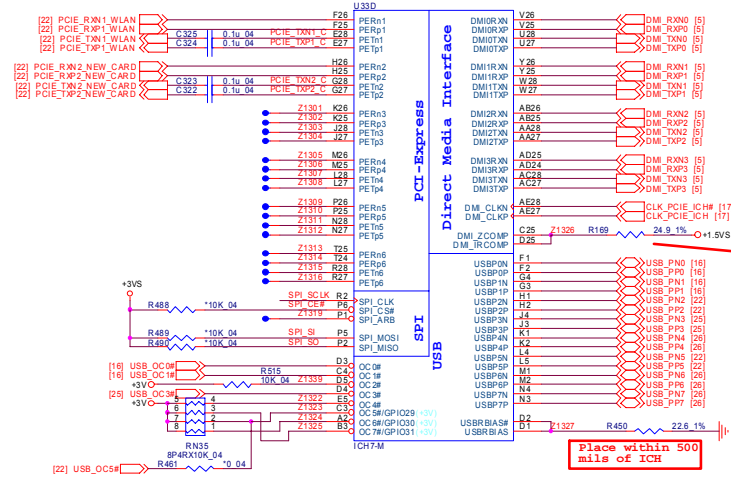
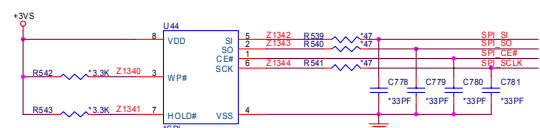
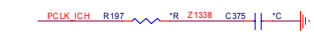
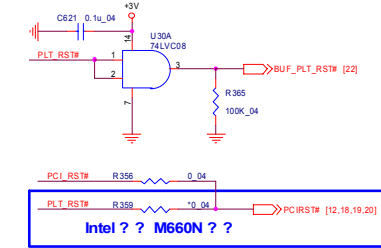
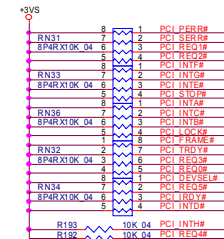
PCIRST# : LAN, Cardbus
 PLT_RST# : N/B, IDE, KBC
 BUF_PLT_RST# : NEW CARD, MINI CARD

AD23 : CardBus
 AD27 : LAN

REQ1# : LAN
 REQ2# : Cardbus

INTA# : CardBus
 INTB# : CardBus, LAN
 INTC# : CardBus
 INTD# : CardBus

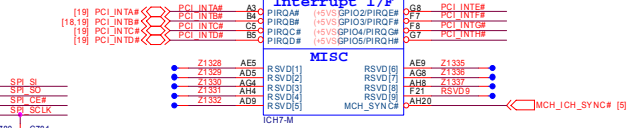
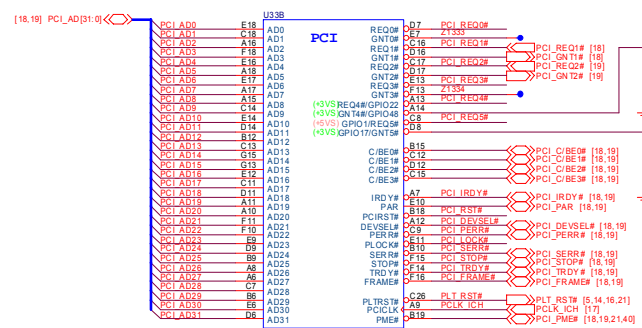
Sheet 13 of 41
 ICH7-M 2/4, PCI,
 USB



Place within 500
 mils of ICH

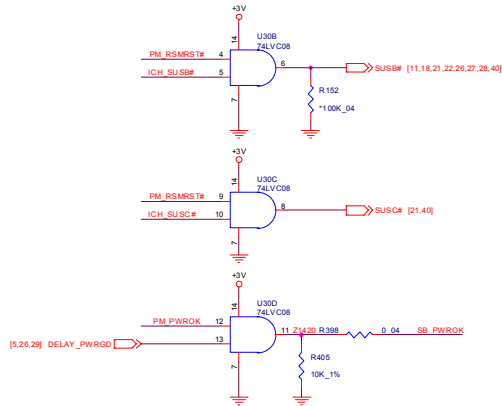
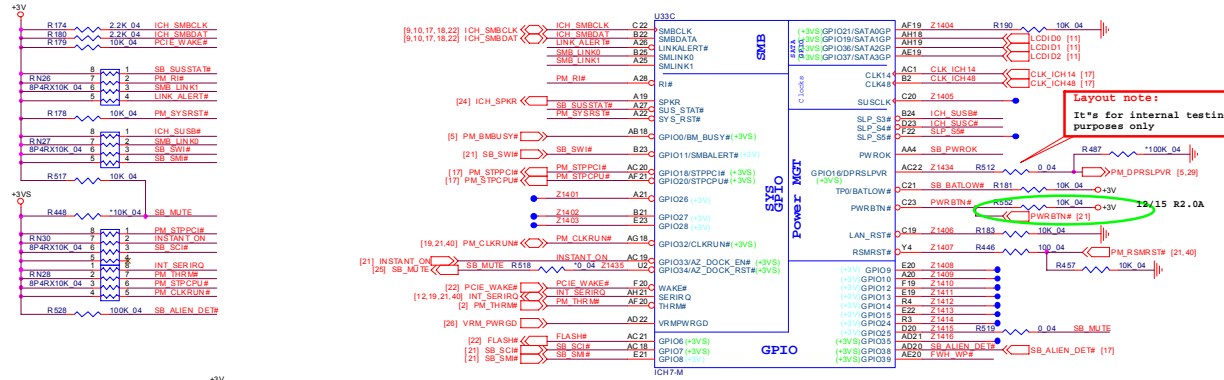
USB0 : PORT0
 USB1 : PORT1
 USB2 : PORT2
 USB3 : PORT3
 USB4 : Bluetooth
 USB5 : NEW CARD
 USB6 : CCD
 USB7 : Docking

Place within 500
 mils of ICH

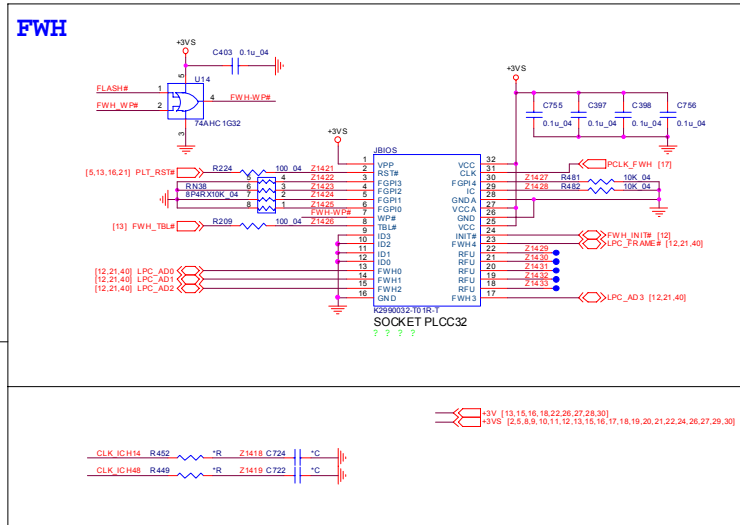
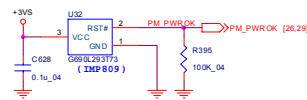


+1.5V [3,5,8,15,22,28]
 +3V [14,15,16,18,22,26,27,28,30]
 +5V [2,5,8,9,10,11,12,14,15,16,17,18,19,20,21,22,24,26,27,29,30]

ICH7-M 3/4, FWH



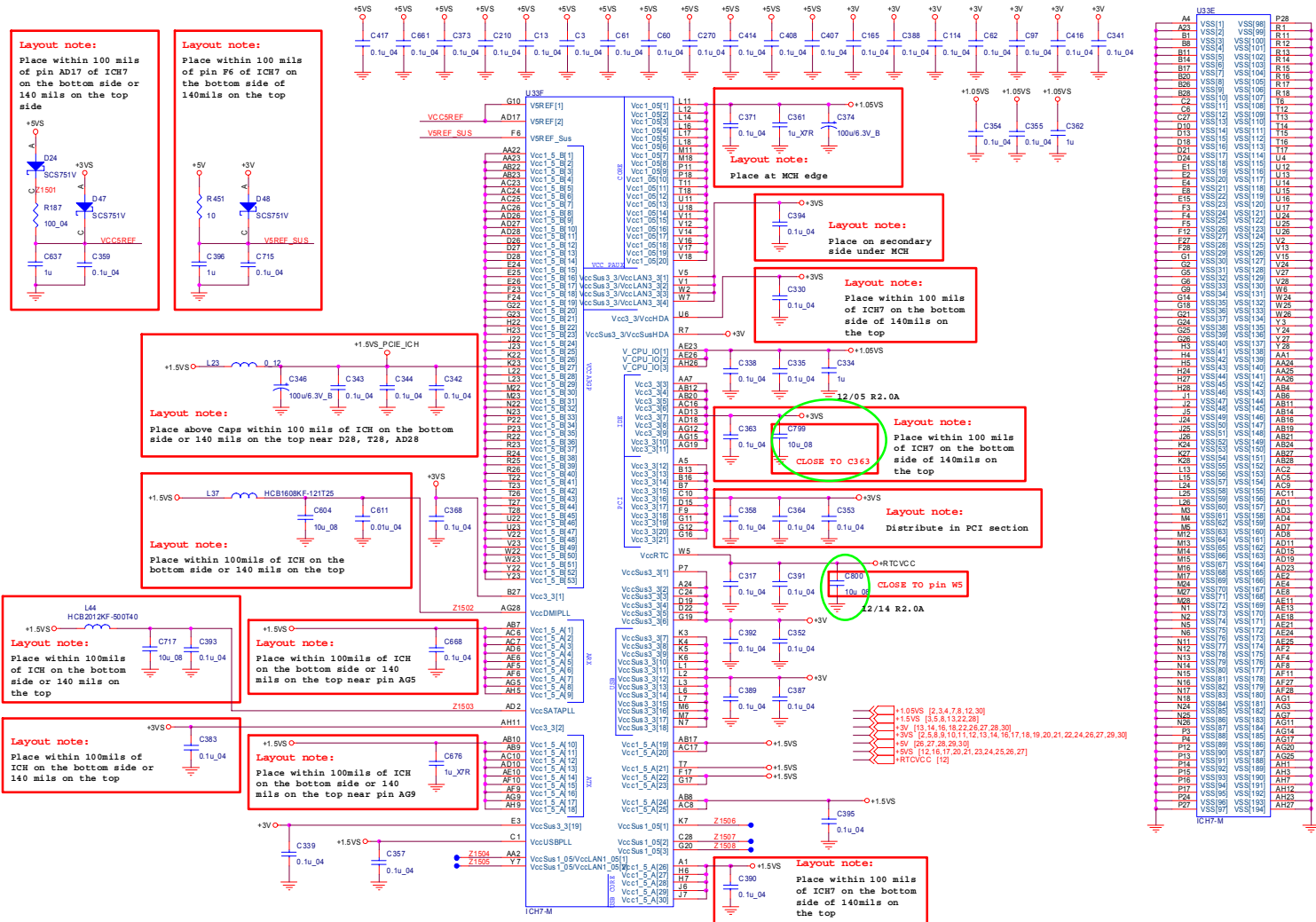
POWER OK



Sheet 14 of 41
ICH7-M 3/4, FWH

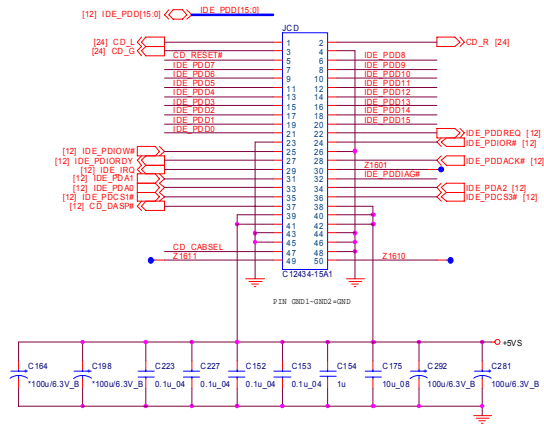
B.Schematic Diagrams

ICH7-M 4/4



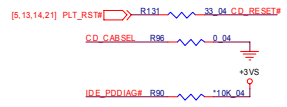
CD-ROM, PC-BEEP, USB2.0*2

CD-ROM

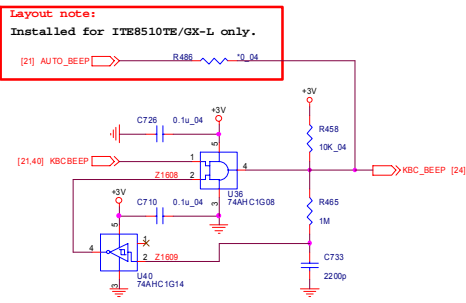


Layout note:
INT_CD_R & CD_GND & INT_CD_L must parallel routing to Audio Codec. The space must be equal.

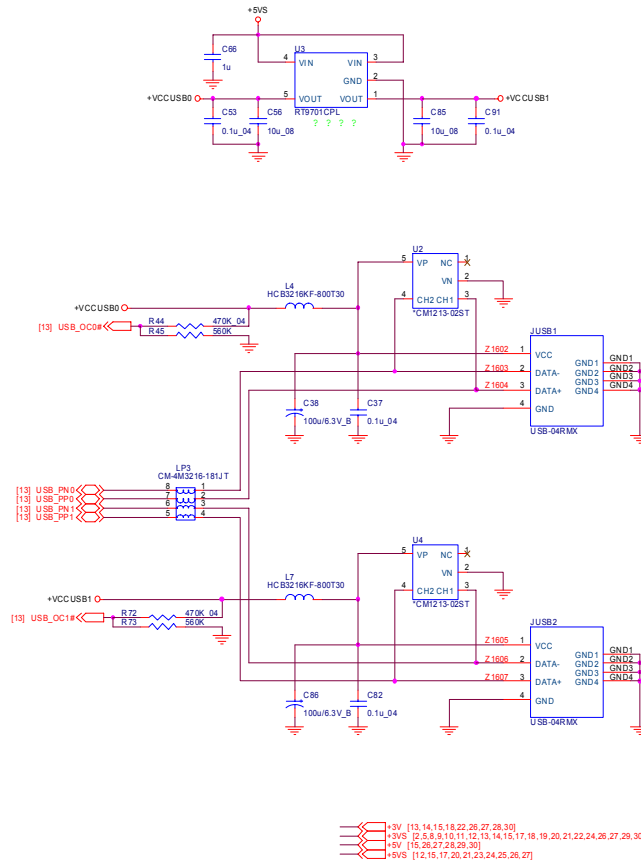
Other Signal	Signal:Space = 1:2
CD_R	Signal:Space = 1:1
CD_G	Signal:Space = 1:1
CD_L	Signal:Space = 1:2
Other Signal	Signal:Space = 1:2



PC BEEP



USB 2.0



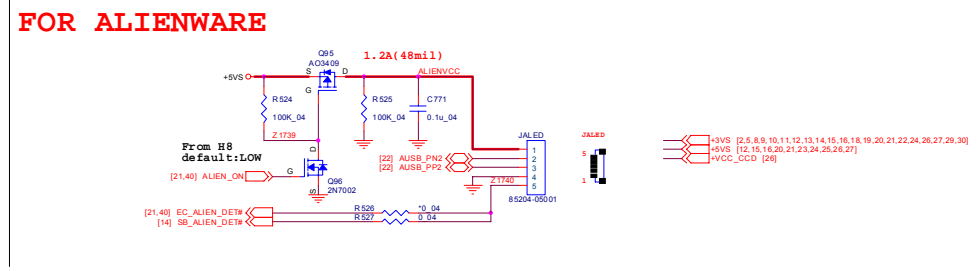
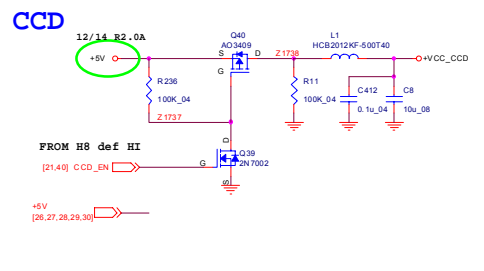
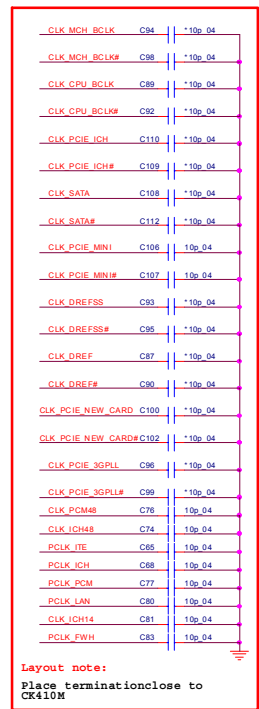
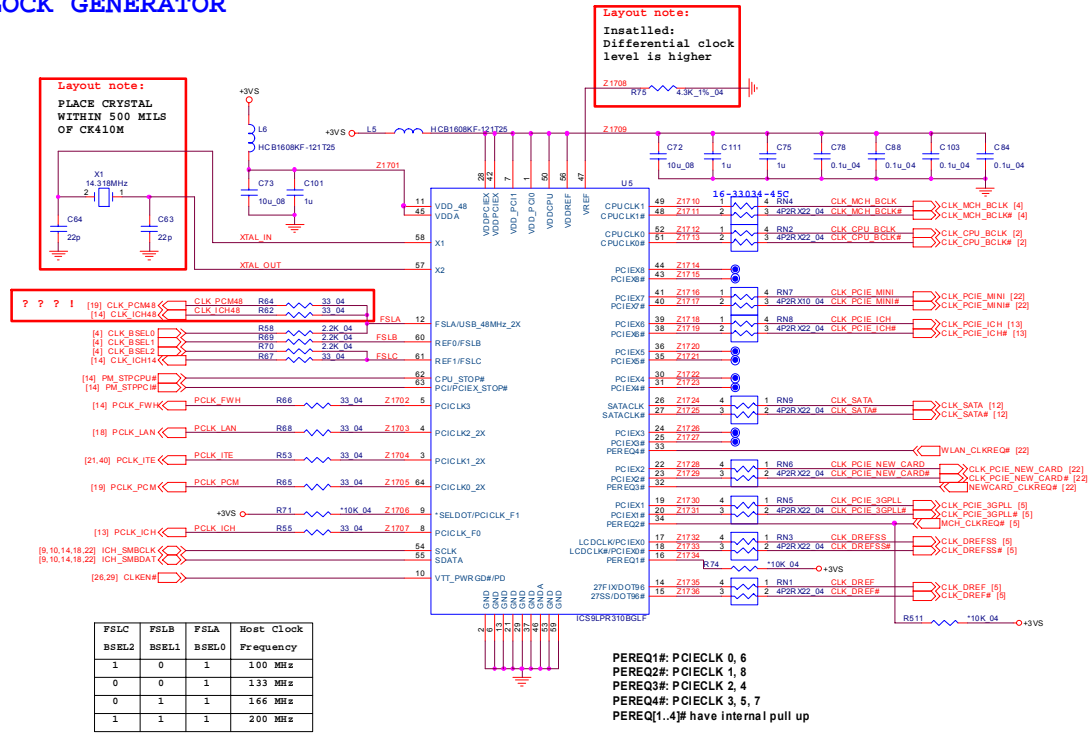
- +3V {13, 14, 15, 18, 22, 26, 27, 28, 30}
- +3V {2, 5, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 24, 26, 27, 29, 30}
- +5V {15, 26, 27, 28, 29, 30}
- +5V {12, 15, 17, 20, 21, 23, 24, 25, 26, 27}

Sheet 16 of 41
CD-ROM, PC-BEEP, USB2.0*2

B.Schematic Diagrams

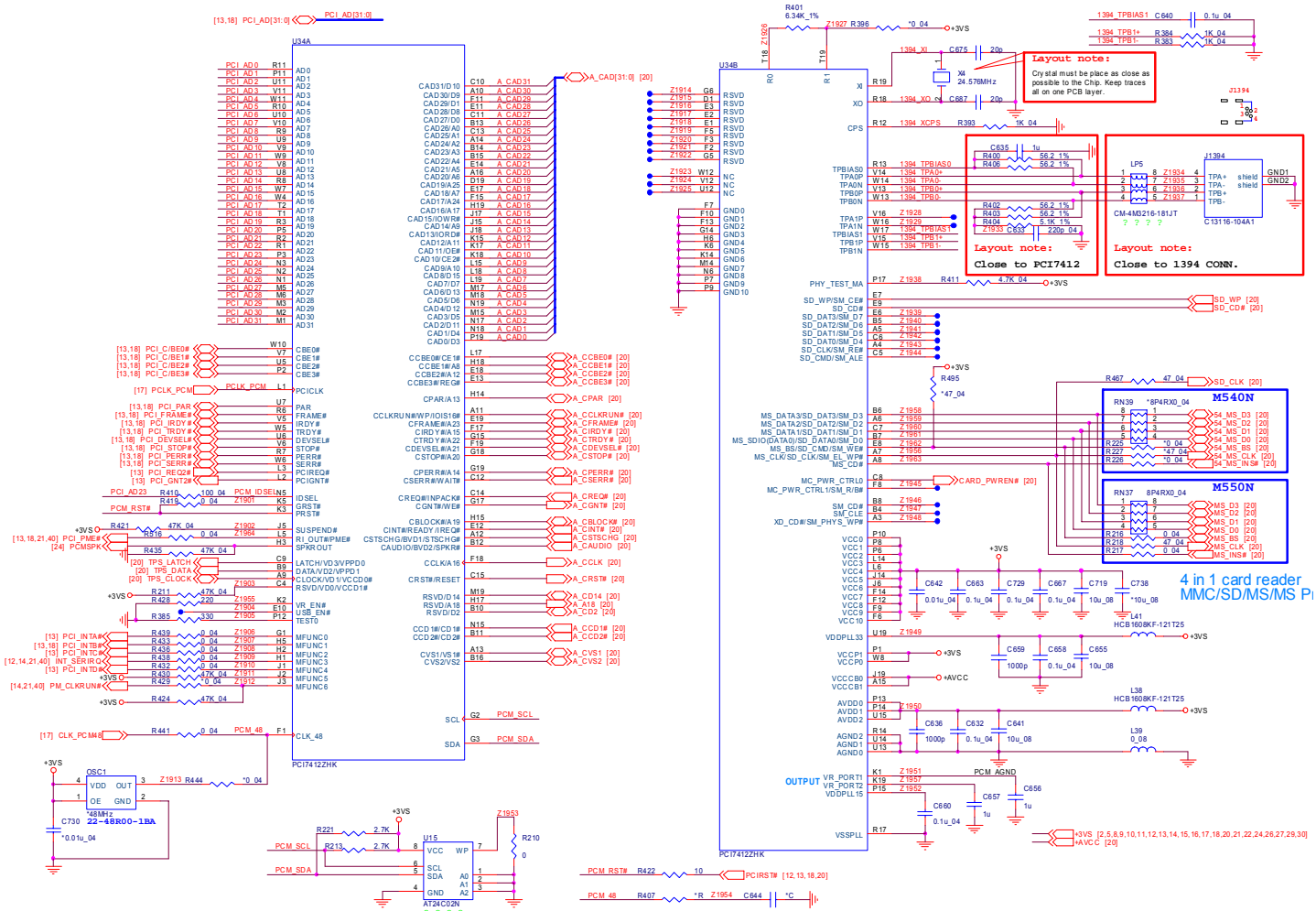
CLOCK GENERATOR, CCD

CLOCK GENERATOR



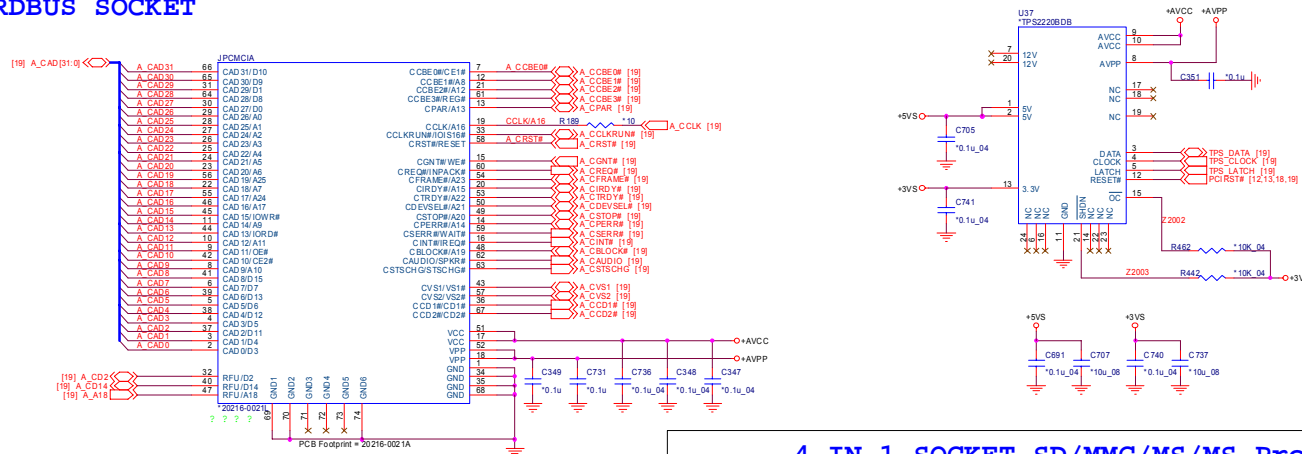
PCI7412

Sheet 19 of 41
PCI7412



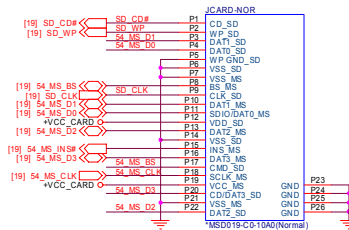
PCM SOCKET,3 IN 1 SOCKET

CARDBUS SOCKET

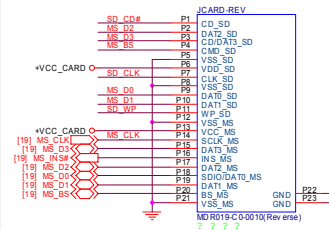


4 IN 1 SOCKET SD/MMC/MS/MS Pro

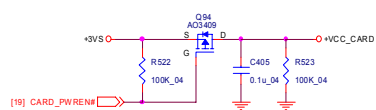
FOR M540N



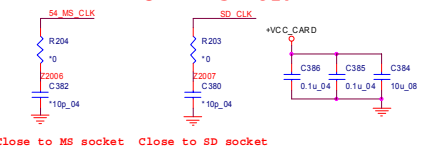
FOR M550N



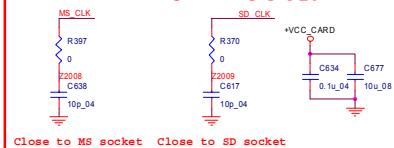
Card Reader Power



FOR M540N



FOR M550N



+3VS [2, 5, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 26, 27, 29, 30]
 +5VS [12, 15, 16, 17, 21, 23, 24, 25, 26, 27]

Sheet 20 of 41
 PCM SOCKET, 3 IN
 1 SOCKET

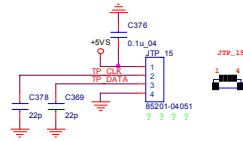
B. Schematic Diagrams

TOUCH PAD, LED

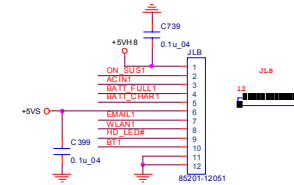
Sheet 23 of 41
TOUCH PAD, LED

CLICK BOARD

FOR M550N

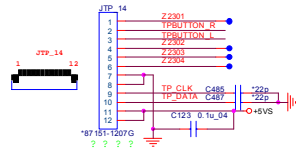


LED BOARD

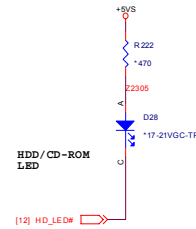
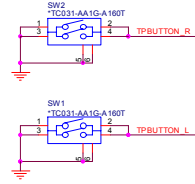


TOUCH PAD

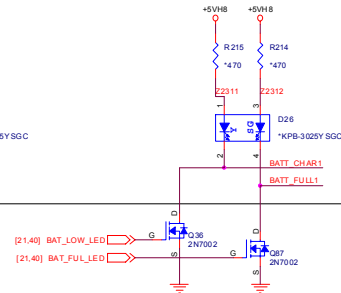
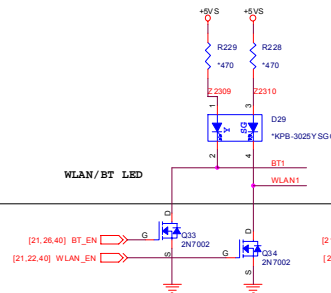
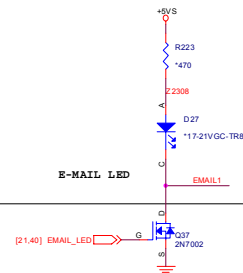
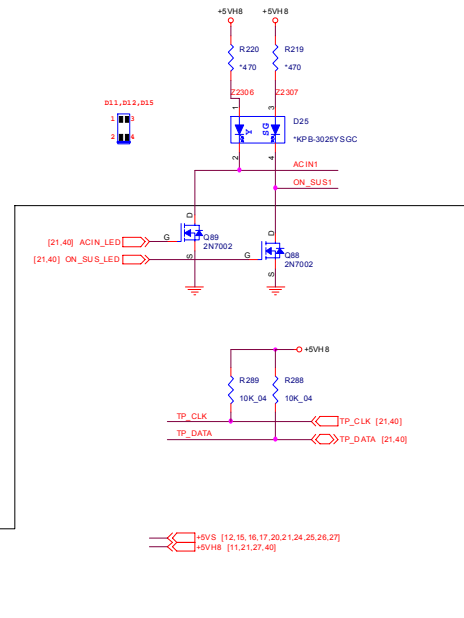
FOR M540N



VENDOR	PART NUMBER
Synaptics	
E-LAN	800409-5102

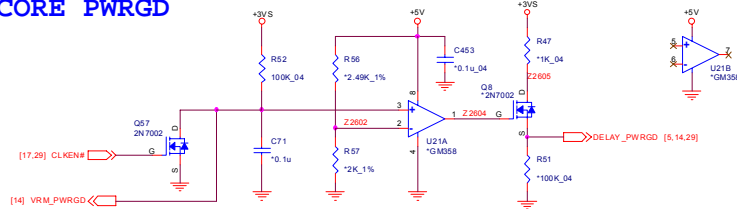


LED

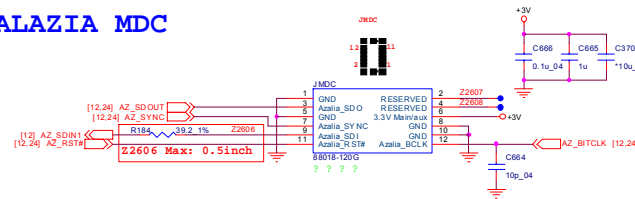


MDC, BT, PWRGD, DDB CON

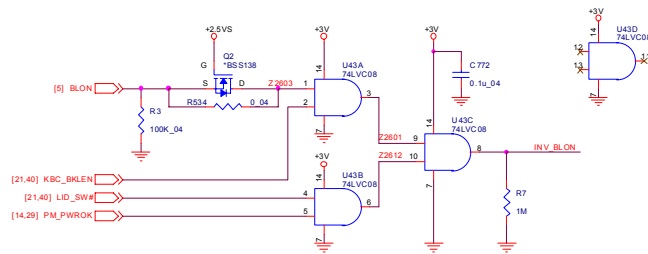
VCORE PWRGD



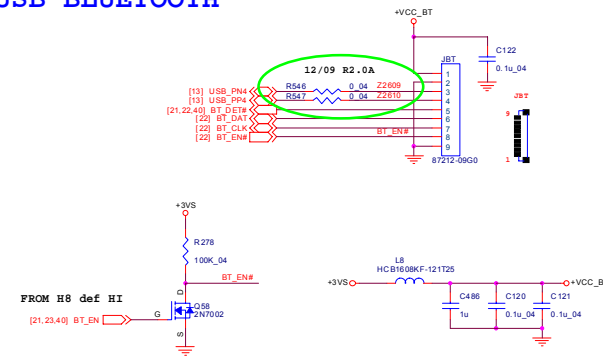
ALAZIA MDC



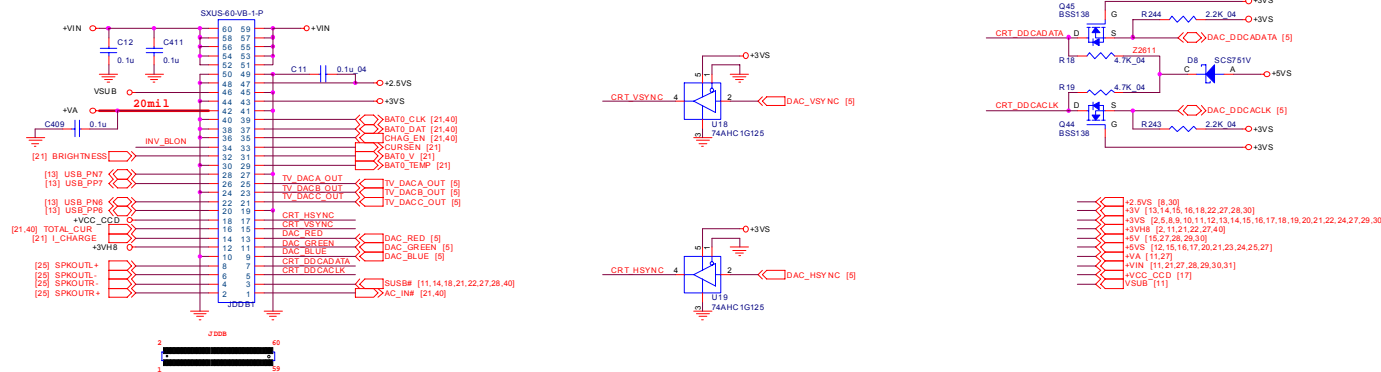
INVERTER CONNECTOR



USB BLUETOOTH



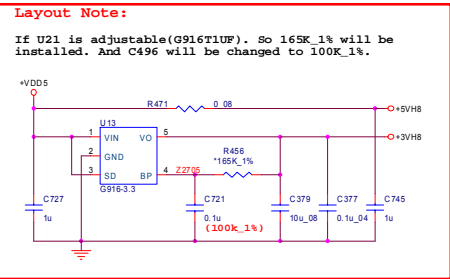
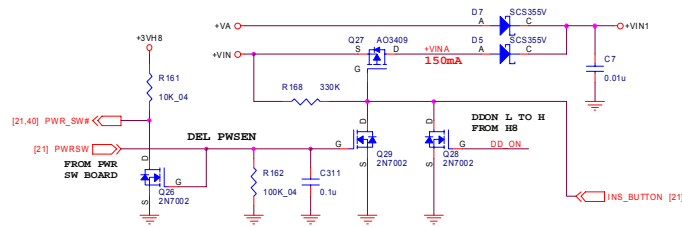
TO MULTI-FUNCTION BOARD



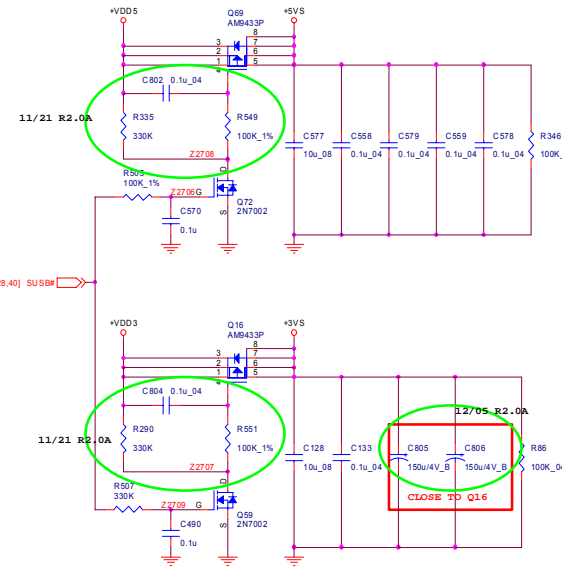
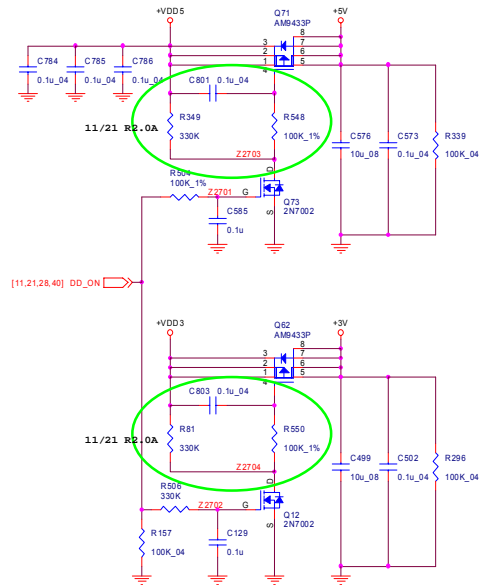
Sheet 26 of 41
MDC, BT, PWRGN,
DDB CON

B.Schematic Diagrams

SYSTEM POWER

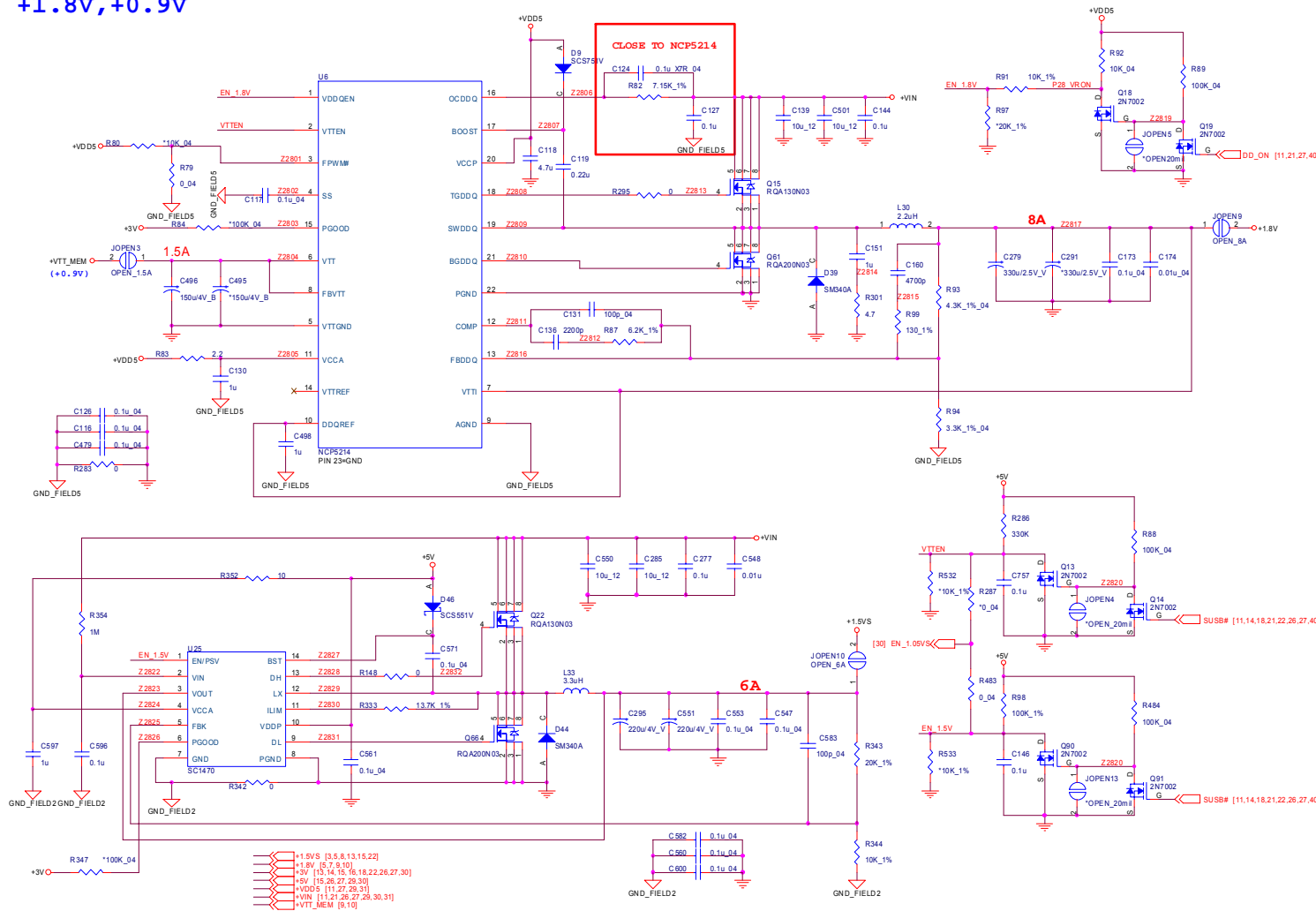


Sheet 27 of 41
SYSTEM POWER



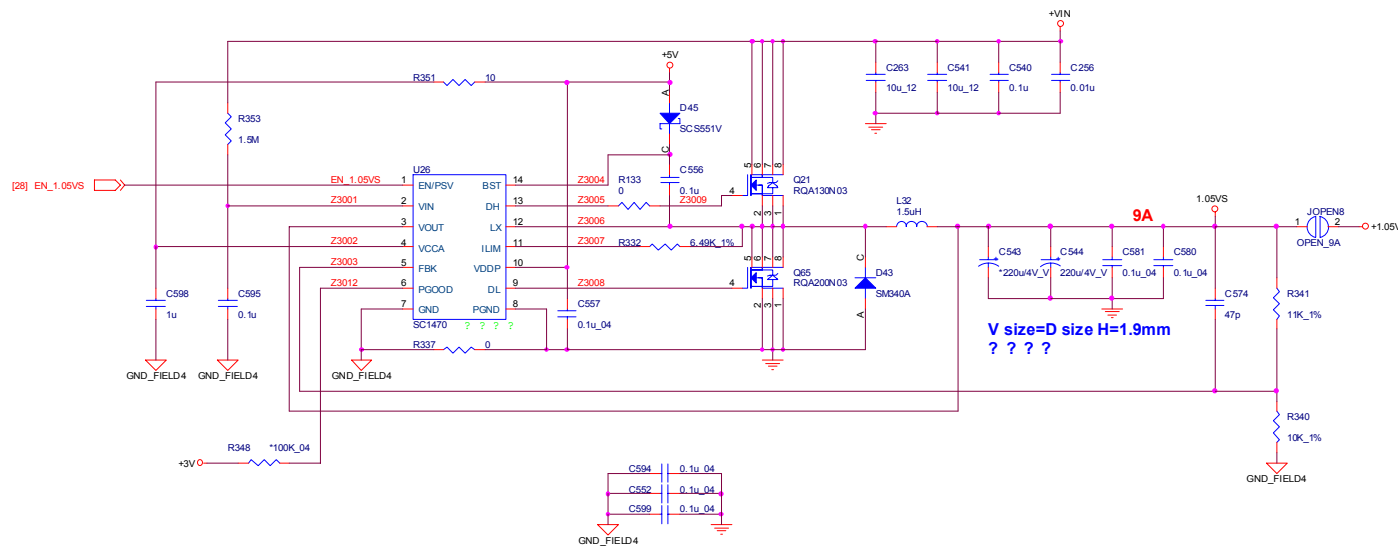
+1.8V, +VTT MEM, +1.5VS

+1.8V, +0.9V



Sheet 28 of 41
+1.8V,+VTT MEM,
+1.5VS

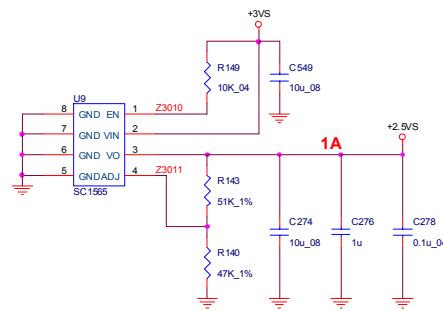
+1.05VS, +2.5VS



V size=D size H=1.9mm
? ? ? ?

Sheet 30 of 41
+1.05VS, +2.5VS

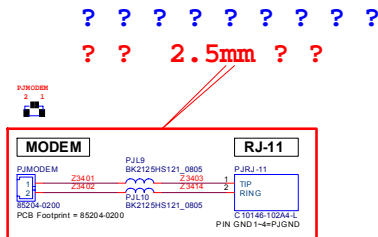
B. Schematic Diagrams



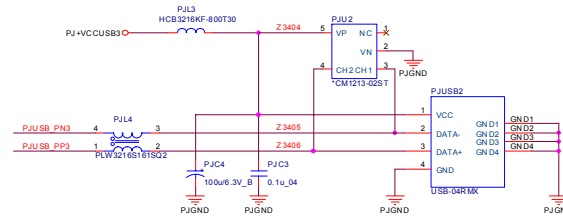
- +1.05VS [2,3,4,7,8,12,15]
- +2.5VS [8,28]
- +3V [15,14,15,16,18,22,26,27,28]
- +3VS [2,5,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,24,26,27,29]
- +5V [15,26,27,28,29]
- +VIN [11,21,26,27,28,29,31]

AUDIO BD(JACK, RJ-11, USB)

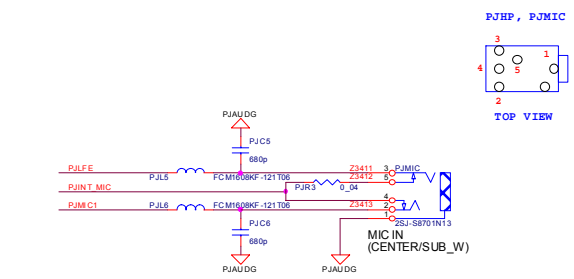
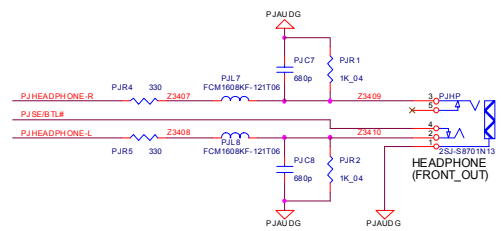
RJ-11 PLANE



DIGITAL PLANE



ANALOG PLANE

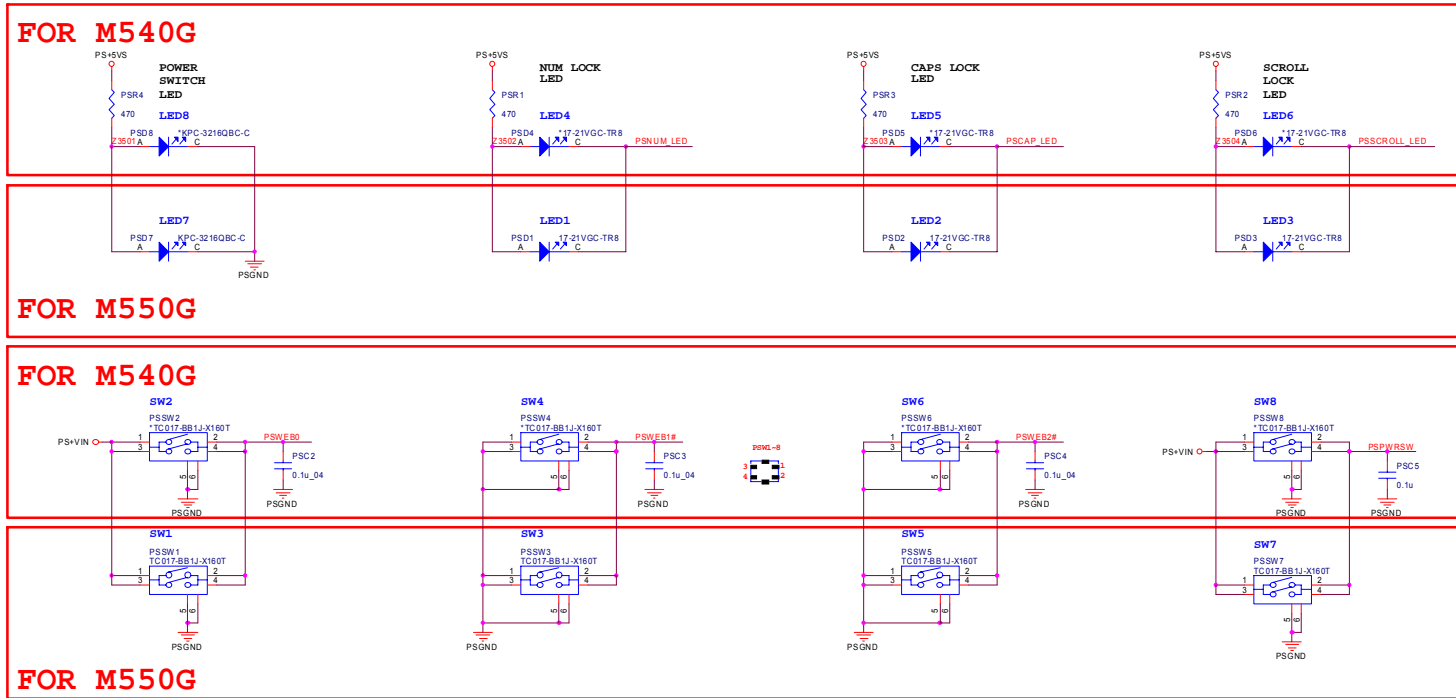


Sheet 34 of 41
AUDIO BD (JACK,
RJ11, USB)

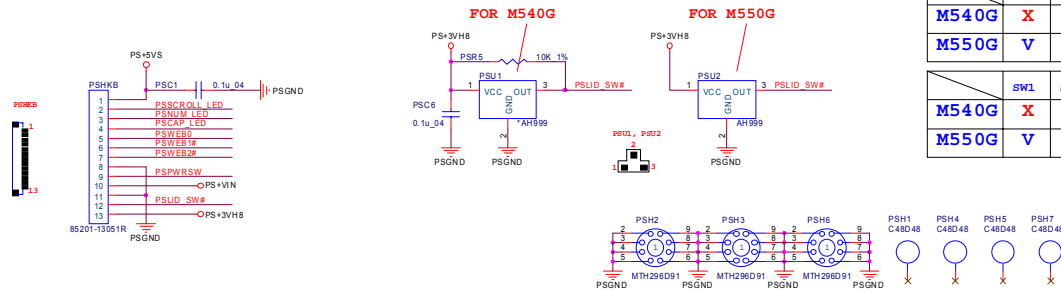
B. Schematic Diagrams

HOT KEY BD(HOTKEY, LED)

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HOT KEY
BD(HOTKEY, LED)



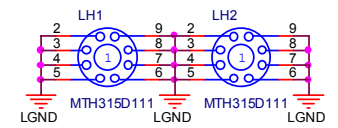
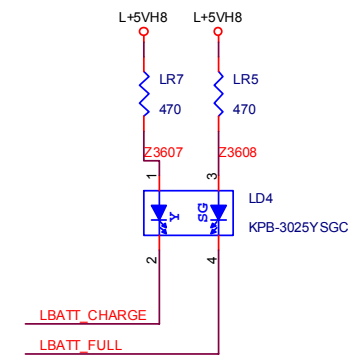
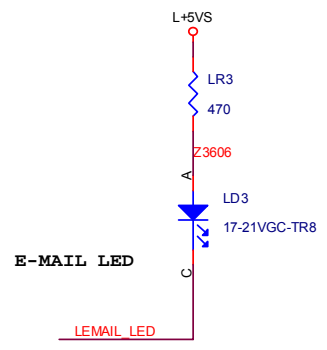
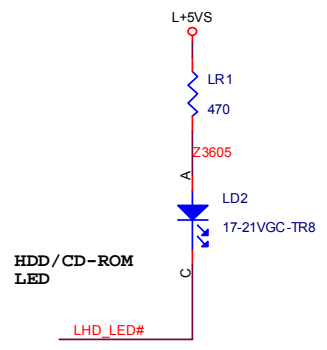
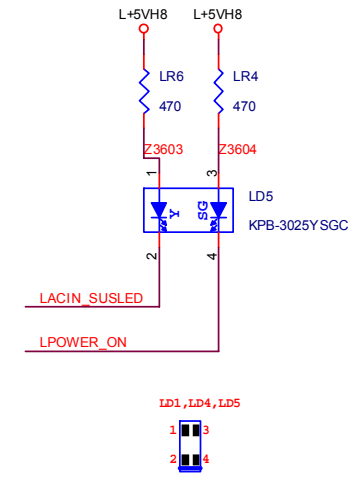
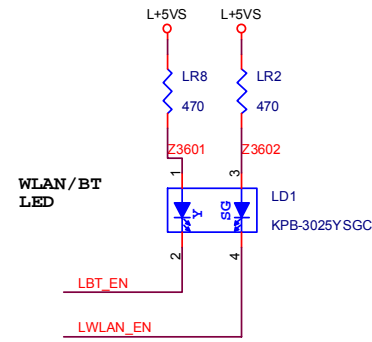
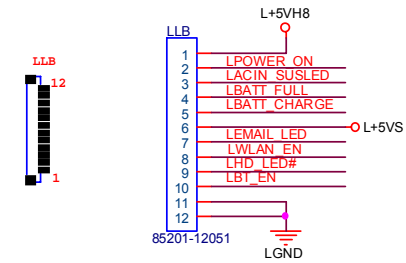
LID SWITCH IC



	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	MR SENSOR
M540G	X	X	X	V	V	V	V	V	PSU1
M550G	V	V	V	X	X	X	X	X	PSU2

	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
M540G	X	V	X	V	X	V	X	V
M550G	V	X	V	X	V	X	V	X

LED BOARD



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LED BOARD

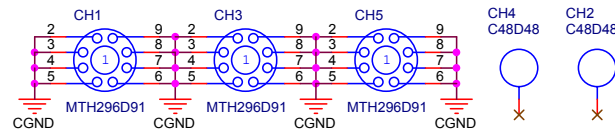
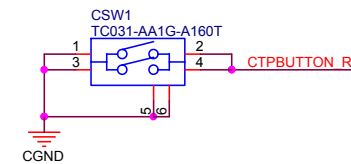
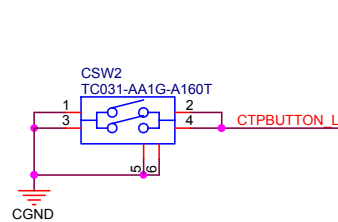
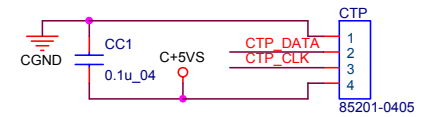
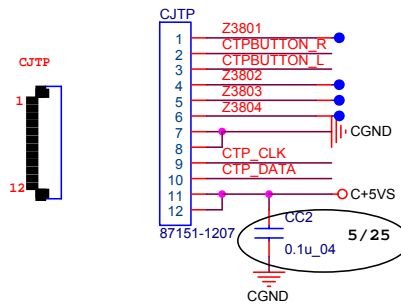
B. Schematic Diagrams

CLICK BOARD

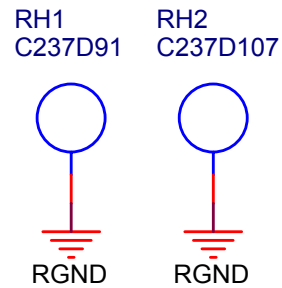
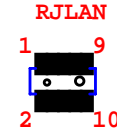
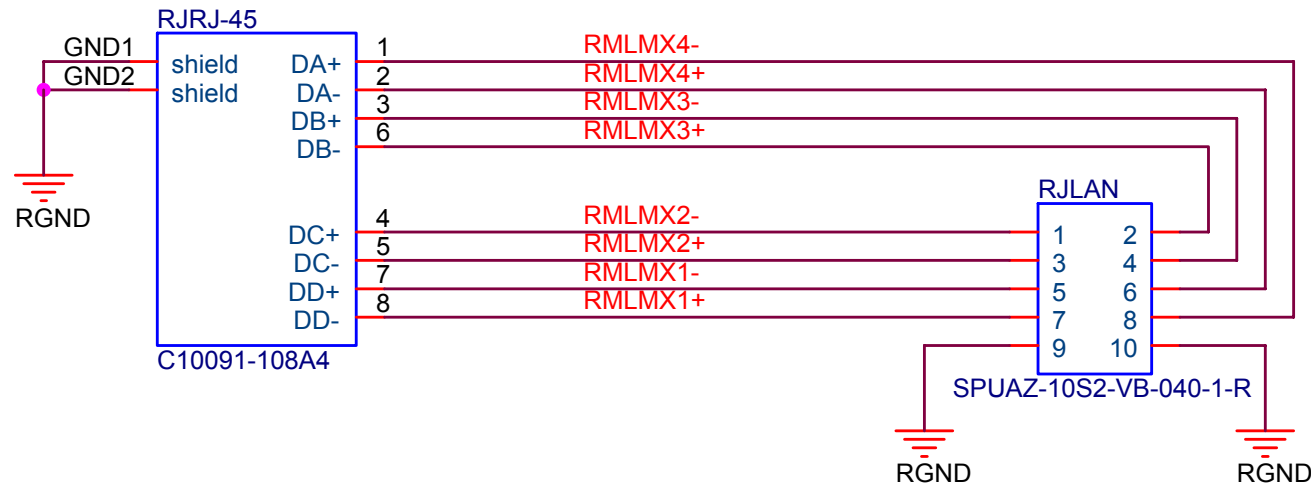
FOR M550G

VENDOR	PART NUMBER
Synaptics	
E-LAN	800409-5102

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CLICK BOARD



RJ-45 BOARD

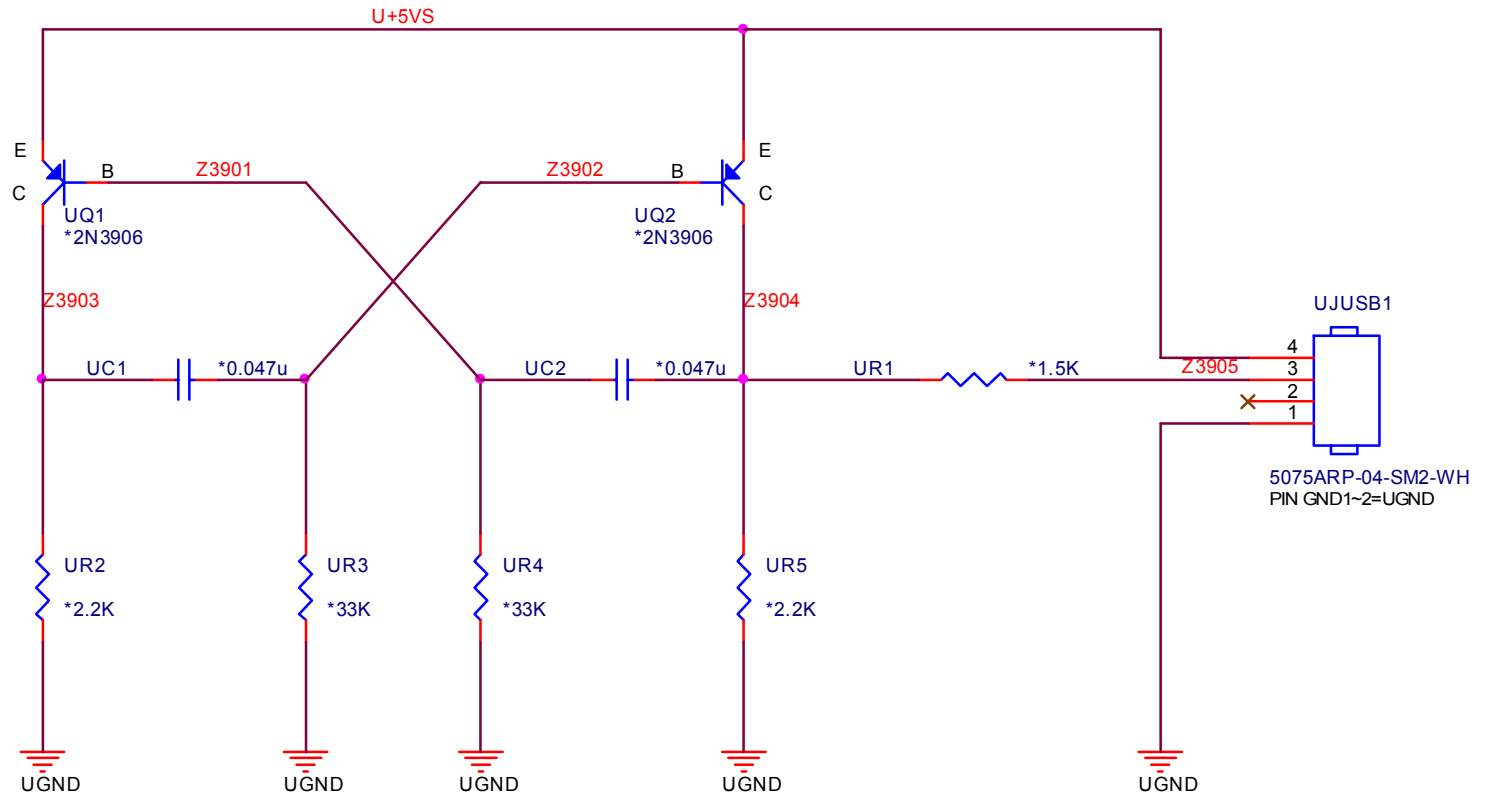


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RJ-45 BOARD

USB DANGLE BOARD

USB DANGLE BOARD

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USB DANGLE
BOARD



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