

# *SERVICE MANUAL*

W760CU / W765CU / M770CU / M775CU

*notebook*





**Notebook Computer**

**M770CU/M775CU/W760CU/W765CU**

**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 *M770CU/M775CU/W760CU/W765CU* 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

## Preface

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### IMPORTANT SAFETY INSTRUCTIONS

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

1. Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
5. This product is intended to be supplied by a Listed Power Unit with an AC Input of 100 - 240V, 50 - 60Hz, DC Output of 19V, 4.74A OR 18.5V, 3.5A (**90** Watts) minimum AC/DC Adapter.

### 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 1 Product**

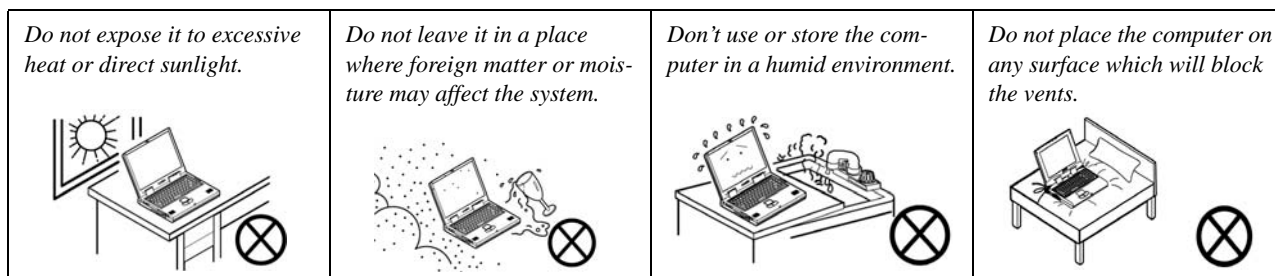
## Instructions for Care and Operation

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

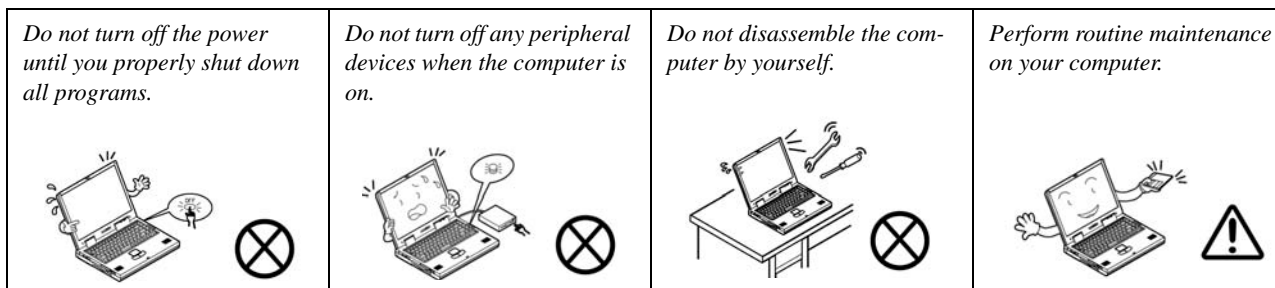
1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.



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.

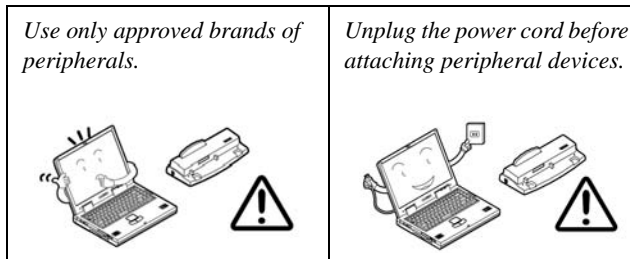


3. **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.



## Preface

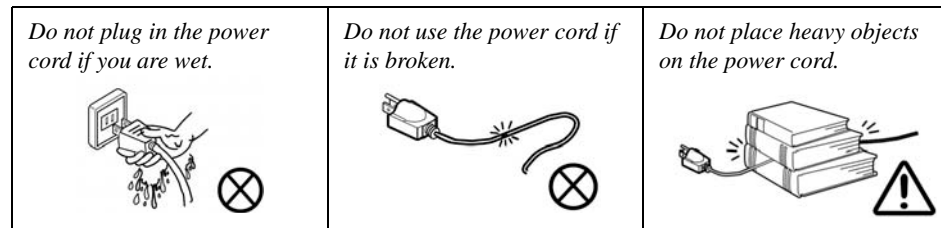
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



## Power Safety

The computer has specific power requirements:

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



### Power Safety Warning

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



## Battery Precautions

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

## Battery Guidelines

The following can also apply to any backup batteries you may have.

- If you do not use the battery for an extended period, then remove the battery from the computer for storage.
- Before removing the battery for storage charge it to 60% - 70%.
- Check stored batteries at least every 3 months and charge them to 60% - 70%.




### Battery Disposal

The product that you have purchased contains a rechargeable battery. The battery is recyclable. At the end of its useful life, under various state and local laws, it may be illegal to dispose of this battery into the municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

### Caution

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used battery according to the manufacturer's instructions.

### Battery Level

Click the battery icon  in the taskbar to see the current battery level and charge status. A battery that drops below a level of 10% will not allow the computer to boot up. Make sure that any battery that drops below 10% is recharged within one week.

## Preface

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### 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 **M770CU/M775CU/W760CU/W765CU** 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. *Windows XP*, *Windows Vista*, 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 **M770CU/M775CU/W760CU/W765CU** 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

<b>Processor</b>  <b>Intel® Core i7-820QM Processor:</b> <b>1.73GHz</b> 45nm (45 Nanometer) Process Technology, 8M L3 Cache & FSB 1333MHz - TDP 45W rPGA988 Package  <b>Intel® Core i7-720QM Processor:</b> <b>1.6GHz</b> 45nm (45 Nanometer) Process Technology, 6M L3 Cache & FSB 1333MHz - TDP 45W rPGA988 Package	<b>Video Adapter</b>  ATI Mobility Radeon HD 4570 Discrete Graphics On Board (PCIe 2.0 * 8)  512MB GDDR2 Video RAM on board Supports Microsoft DirectX® 10 Supports HDCP	<b>Interface</b>  Three USB 2.0 Ports One eSATA Port (Supported in <b>Windows Vista/Windows 7</b> Only) One HDMI Out Port One External Monitor Port One Headphone-Out Jack One Microphone-In Jack One S/PDIF-Out Jack One RJ-11 Jack One RJ-45 LAN Jack One DC-In Jack
<b>Core Logic</b>  Intel® PM55 Chipset	<b>BIOS</b>  One 32Mb SPI Flash ROM Phoenix™ BIOS	<b>Card Reader</b>  Embedded 7-in-1 Card Reader (MS/ MS Pro/ SD/ Mini SD/ MMC/ RS MMC/ MS Duo) <b>Note:</b> MS Duo/ Mini SD/ RS MMC Cards require a PC adapter
<b>Display</b>  <b>Model A Computers:</b> 17" WXGA(1440 * 900) / WUXGA (1920 * 1200) TFT LCD  <b>Model B Computers:</b> 15.6" HD 16:9 Wide Screen (1366 * 768) / HD+(1600 * 900) / FHD (1920 * 1080) TFT LCD	<b>Storage</b>  One Changeable 12.7mm(h) Optical Device (CD/DVD) Type Drive (see ?\$paratext>? on page 1 - 3)  Easy Changeable 2.5" 9.5 mm (h) <b>SATA</b> (Serial) HDD	<b>Slots</b>  One ExpressCard/34/54 Slot <b>Two Mini-Card Slots (USB/PCIe):</b> Slot 1 for WLAN Module with HMC Slot and PCIe Interface Slot 2 for 3.75G Mini-Card Slot with USB Interface ( <b>Factory Option</b> )
<b>Memory</b>  64-bit Wide <b>DDRIII (DDR3)</b> Data Channel Two 204 Pin SO-DIMM Sockets Supporting <b>DDRIII (DDR3)</b> 1066/1333MHz Memory Expandable up to <b>4GB</b> (1GB / 2GB DDRIII Modules)	<b>Audio</b>  High Definition Audio Compliant Interface 3D Stereo Enhanced Sound System S/PDIF Digital Output Built-In Microphone 2 * Built-In Speakers 1W, 8Ω	
	<b>Keyboard &amp; Pointing Device</b>  Full Size WinKey Keyboard Built-in TouchPad (integrated scrolling key functionality) with Multi Gesture Function Three Instant Keys (WWW, E-Mail, Silent Mode)	

Communication	Security	Optional
Built-In 56K MDC Modem V.90 & V.92 Compliant Built-In Gigabit Ethernet LAN Intel® WiFi Link 5300 Module <b>(Factory Option)</b> Intel® Advanced N WiFi Link 6200 Module HMC <b>(Factory Option)</b> Intel® Ultimate N WiFi Link 6300 Module HMC <b>(Factory Option)</b> 802.11b/g HMC Wireless Lan Module <b>(Factory Option)</b> 802.11b/g/n HMC Wireless Lan Module <b>(Factory Option)</b> Bluetooth 2.1 + EDR (Enhanced Data Rate) Module <b>(Factory Option)</b> 2.0M Pixel USB PC Camera Module <b>(Factory Option)</b> UMTS/HSPDA-based 3.75G Module with USB Mini-Card Interface <b>(Factory Option)</b> Quad-band GSM/GPRS (850 MHz, 900 MHz, 1800 MHz, 1900 MHz) UMTS WCDMA FDD (2100 MHz) <b>Note that UMTS modes CAN NOT be used in North America.</b>	Security (Kensington® Type) Lock Slot BIOS Password Fingerprint Reader Module <b>(Factory Option)</b>	<b>Optical Drive Module Options:</b> Super Multi Drive Module Blu-Ray Combo Module  Intel® WiFi Link 5300 Module <b>(Factory Option)</b> Intel® Advanced N WiFi Link 6200 Module HMC <b>(Factory Option)</b> Intel® Ultimate N WiFi Link 6300 Module HMC <b>(Factory Option)</b> 802.11b/g HMC Wireless Lan Module <b>(Factory Option)</b> 802.11b/g/n HMC Wireless Lan Module <b>(Factory Option)</b> 9 Cell Smart Lithium-Ion Battery Pack, 7200mAH Bluetooth 2.1 + EDR (Enhanced Data Rate) Module <b>(Factory Option)</b> Fingerprint Reader Module <b>(Factory Option)</b> 2.0M Pixel USB PC Camera Module <b>(Factory Option)</b> UMTS/HSPDA-based 3.75G Module with USB Mini-Card Interface <b>(Factory Option)</b>
Power Management	Operating System	
Supports Wake on LAN Supports Wake on USB Supports Resume From Modem Ring	Windows® Vista (with Service Pack 2) Windows® 7	
Power	Environmental Spec	
Full Range AC/DC Adapter AC input 100 - 240V, 50 - 60Hz, DC Output 19V, 4.74A <b>(90 Watts)</b> 6 Cell Smart Lithium-Ion Battery Pack, 4400mAH 9 Cell Smart Lithium-Ion Battery Pack, 7200mAH <b>(Option)</b>	Temperature Operating: 5°C - 35°C Non-Operating: -20°C - 60°C Relative Humidity Operating: 20% - 80% Non-Operating: 10% - 90%	
	Dimensions & Weight	
	<b>Model A Computers:</b> 397.2mm (w) * 282.5mm (d) * 39.5mm (h) 2.9 kg With 6 Cell Battery & ODD  <b>Model B Computers:</b> 374mm (w) * 256mm (d) * 37.9mm (h) 2.5 kg With 6 Cell Battery & ODD	

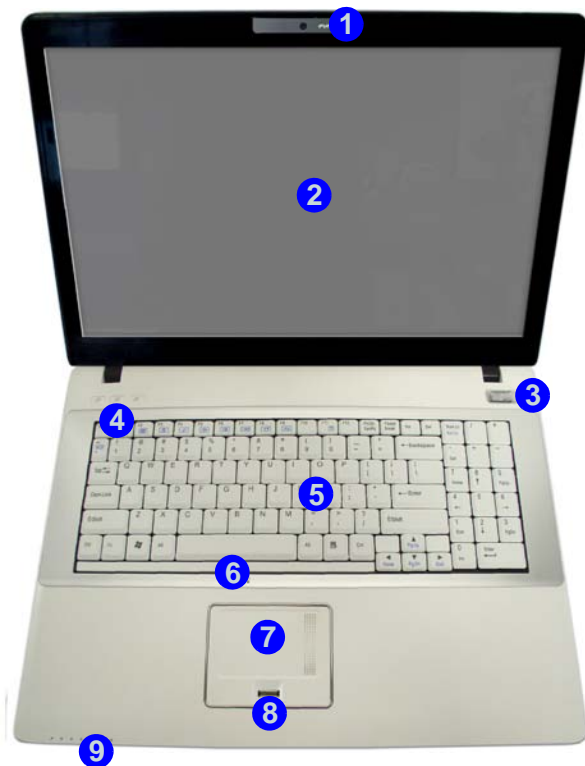
## Introduction

*Figure 1*  
**Top View**

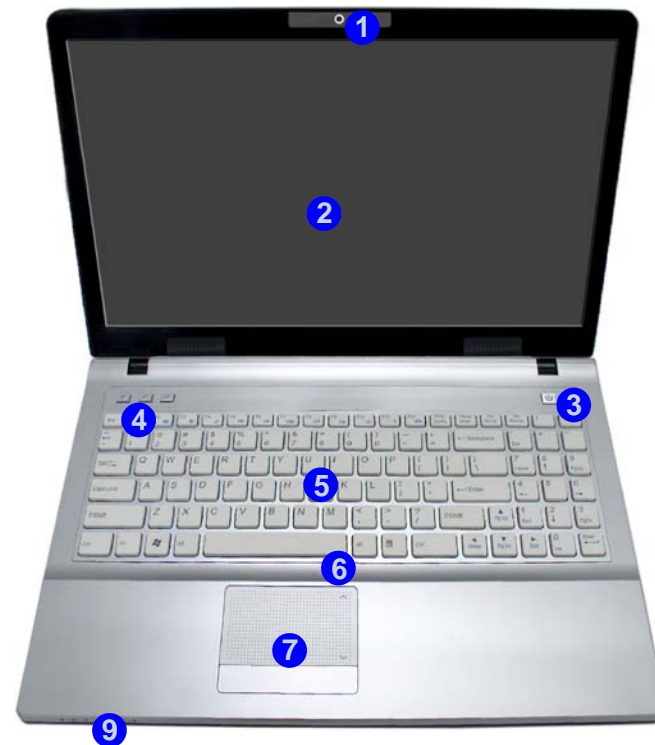
1. Optional Built-In PC Camera
2. LCD
3. Power Button
4. Hot Key Buttons
5. Keyboard
6. Built-In Microphone
7. Touchpad & Buttons
8. Fingerprint\* (Optional)
9. LED Indicators

**\*Note:** This model may have either a fingerprint module or card reader module, depending on the purchase configuration.

## External Locator - Top View with LCD Panel Open



**M770CU/M775CU**



**W760CU/W765CU**



## External Locator - Front & Right side Views



*Figure 2*

### Front Views

1. LED Power & Communication Indicators



*Figure 3*

### Right Side Views

1. S/PDIF-Out Jack
2. Microphone-In Jack
3. Headphone-Out Jack
4. USB 2.0 Port
5. Optical Device Drive Bay
6. RJ-11 Phone Jack
7. Security Lock Slot

## Introduction

### External Locator - Left Side & Rear View

*Figure 4*  
**Left Side View**

1. DC-In Jack
2. External Monitor Port
3. RJ-45 LAN Jack
4. e-SATA Port
5. HDMI-Out Port
6. Vent/Fan Intake/Outlet
7. 2 \* USB 2.0 Ports
8. ExpressCard Slot
9. 7-in-1 Card Reader

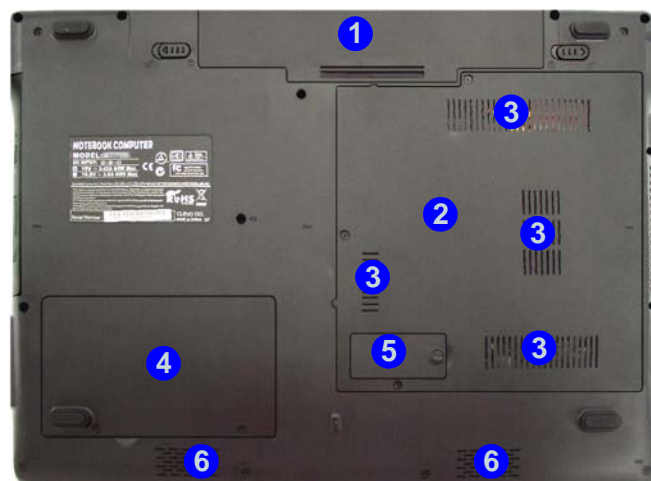


*Figure 5*  
**Rear View**

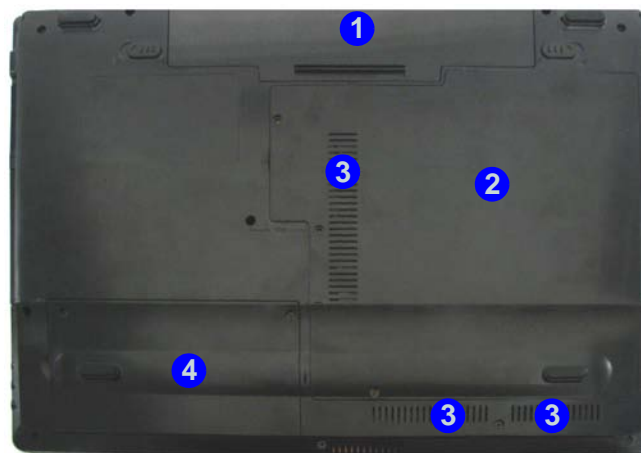
1. Battery



## External Locator - Bottom View



M770CU/M775CU



W760CU/W765CU

*Figure 6*  
**Bottom View**

1. Battery
2. RAM & CPU Bay Cover
3. Vent/Fan Intake/Outlet
4. Hard Disk Bay Cover
5. 3.75G/HSPA USIM Card Location
6. Speakers



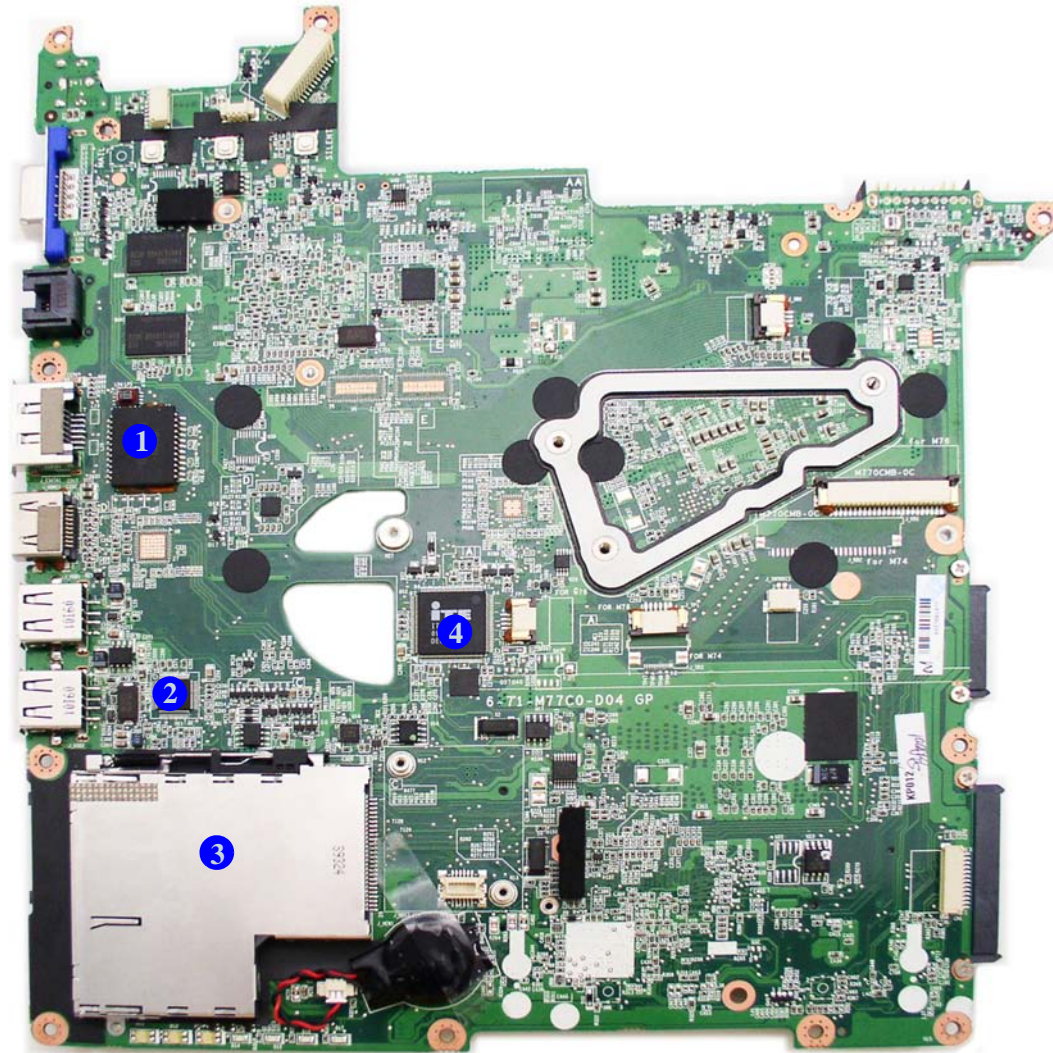
### Overheating

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

*Figure 7*  
**Mainboard Top**  
**Key Parts**

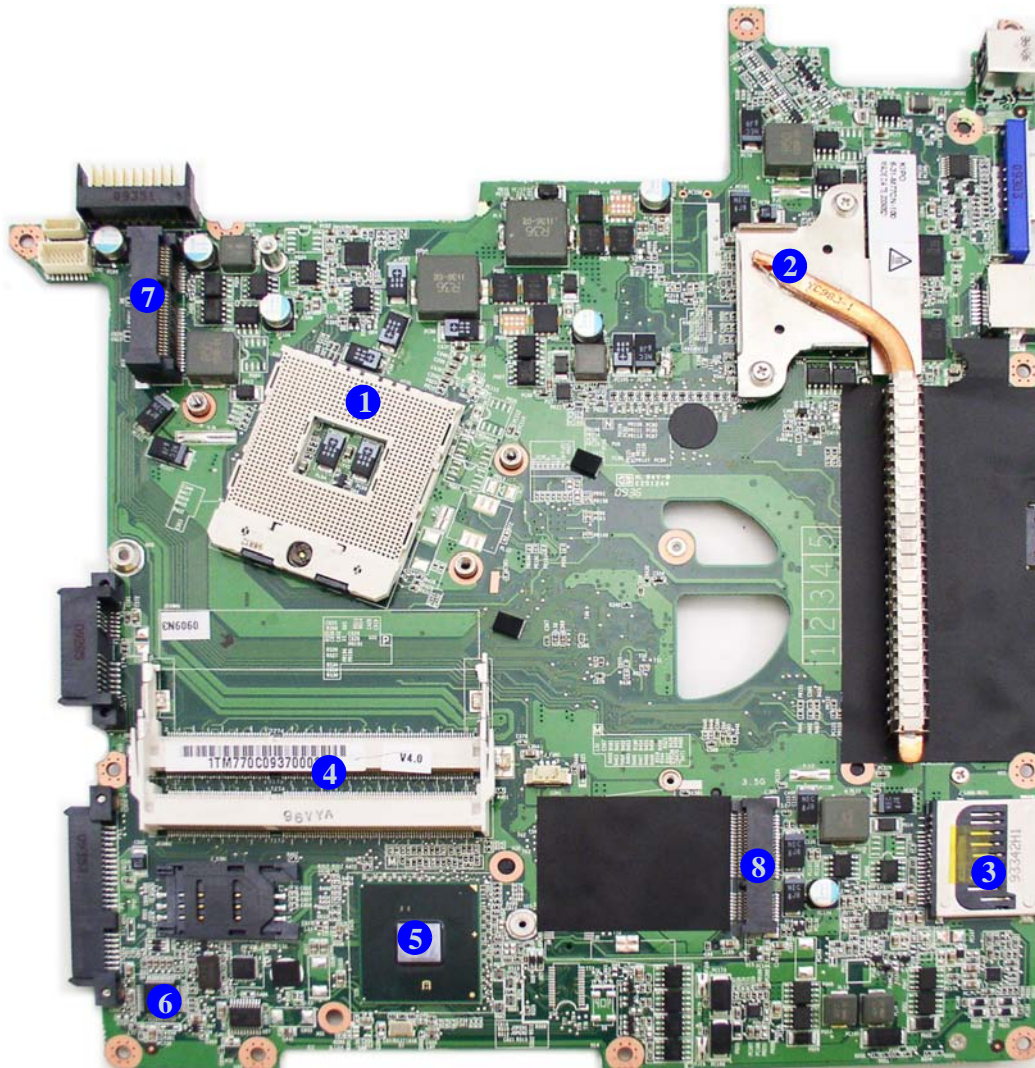
1. Transformer
2. PS810L
3. ExpressCard Connector
4. KBC ITE IT8512E

## Mainboard Overview - Top (Key Parts)





## Mainboard Overview - Bottom (Key Parts)



*Figure 8*  
**Mainboard Bottom  
Key Parts**

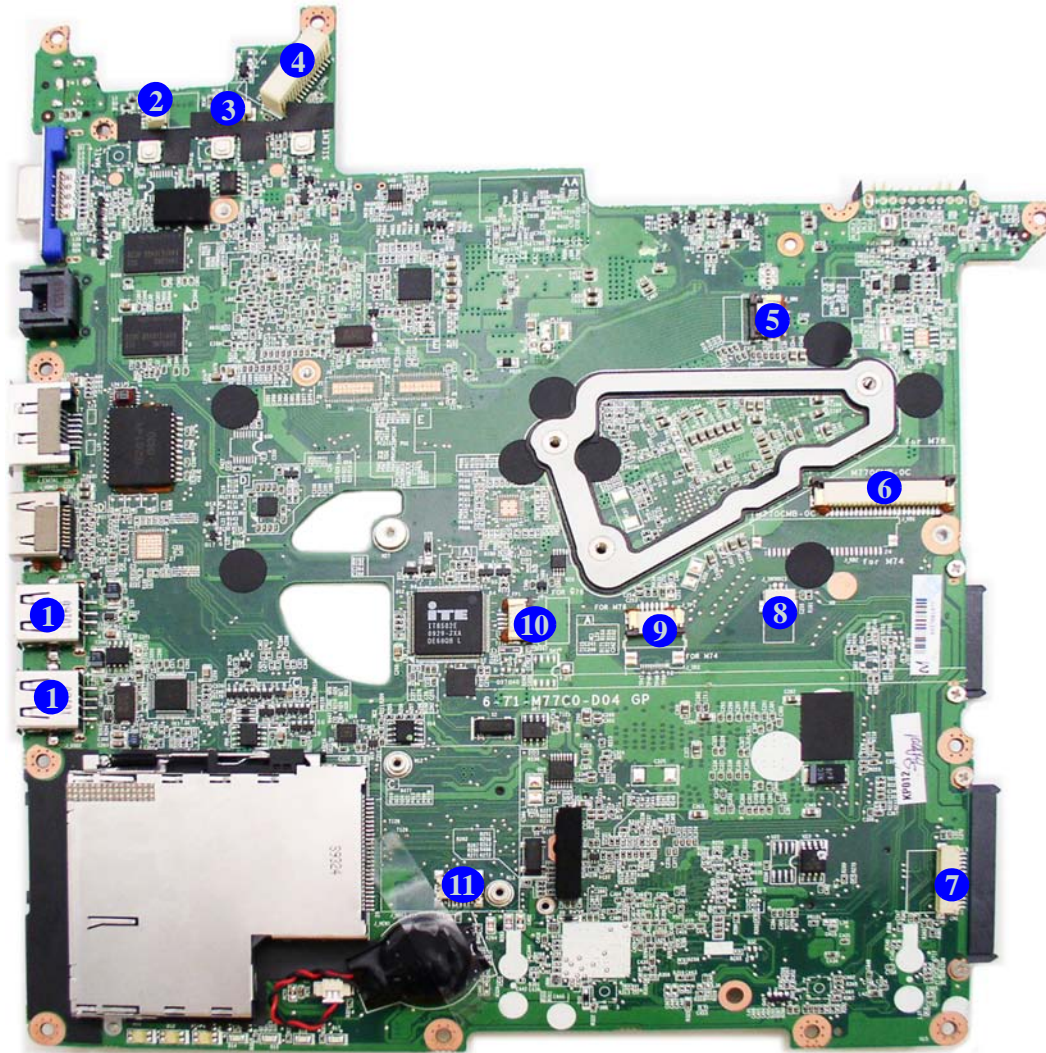
1. CPU Socket (no CPU installed)
2. GPU ATI 4570
3. Card Reader Socket
4. Memory Slots (DDR3 SO-DIMM)
5. Intel PM55
6. Audio Codec
7. Mini-Card Connector (WLAN Module)
8. Mini-Card Connector (3G Module)

## Introduction

*Figure 9*  
**Mainboard Top  
Connectors**

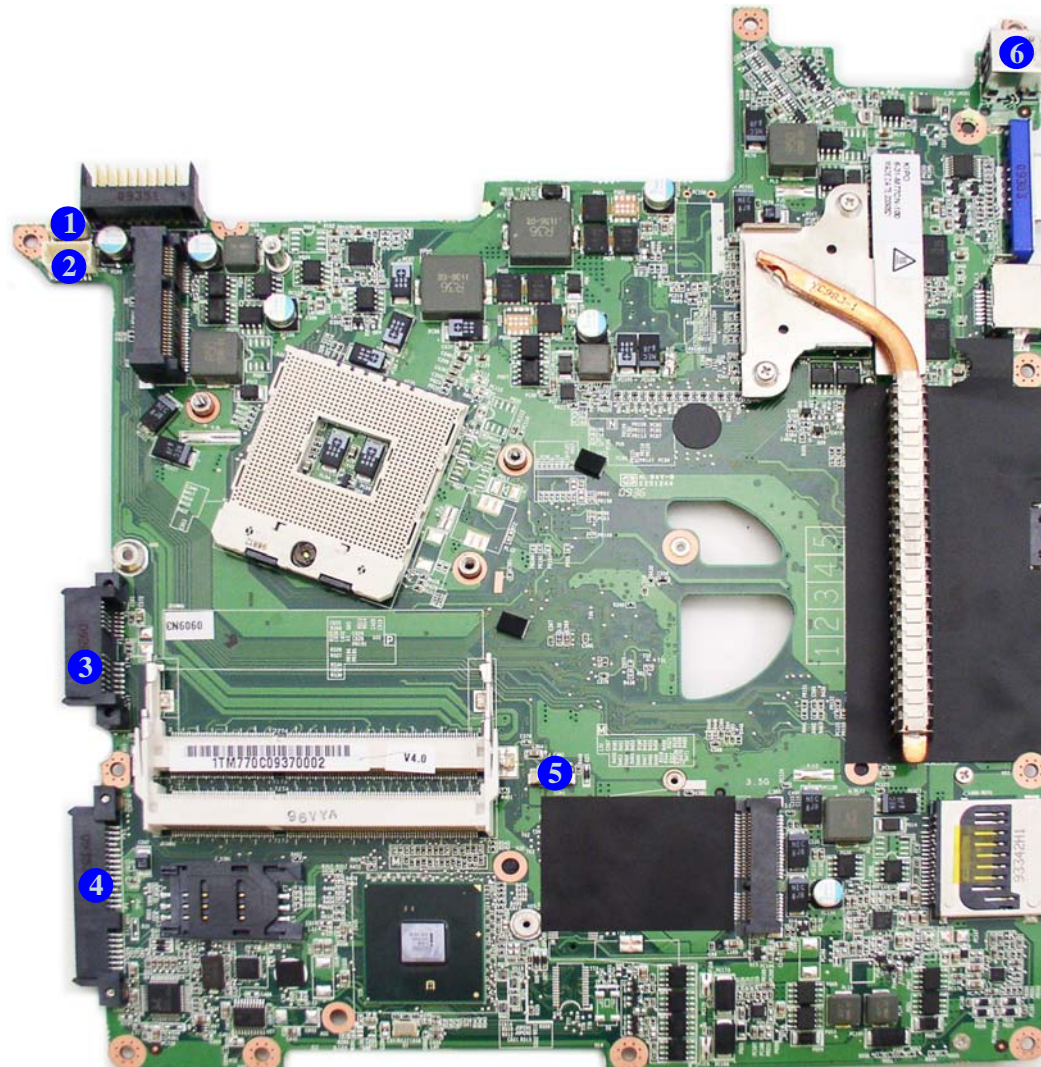
1. USB Port
2. Inverter  
Connector
3. Speaker  
Connector
4. LCD Cable  
Connector
5. Power Board  
Connector
6. Keyboard Cable  
Connector
7. Audio Board  
Connector
8. Microphone  
Cable Connector
9. TouchPad Cable  
Connector
10. Fingerprint  
Connector
11. Modem  
Connector

## Mainboard Overview - Top (Connectors)





## Mainboard Overview - Bottom (Connectors)



*Figure 10*  
**Mainboard Bottom  
Connectors**

1. BT Cable Connector
2. Multi Board Connector
3. CD-ROM Connector
4. HDD Connector
5. Fan Cable Connector
6. DC-In Jack






# Chapter 2: Disassembly



## Overview

This chapter provides step-by-step instructions for disassembling the *M770CU/M775CU/W760CU/W765CU* series notebook's parts and subsystems. When it comes to reassembly, reverse the procedures (unless otherwise indicated).

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

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

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

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

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

  
Information  
Warning

## Disassembly

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

### Maintenance Tools

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

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

### Connections

Connections within the computer are one of four types:

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

## Maintenance Precautions

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

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

## Cleaning

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

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



### Power Safety Warning

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

## Disassembly Steps

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

### To remove the Battery:

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

### To remove the HDD:

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

### To remove the Optical Device:

1. Remove the battery [page 2 - 5](#)
2. Remove the Optical device [page 2 - 9](#)

### To remove the System Memory:

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

### To remove the Inverter Board:

1. Remove the battery [page 2 - 5](#)
2. Remove the inverter board [page 2 - 13](#)

### To remove the WLAN Module:

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

### To remove and install a Processor:

1. Remove the battery [page 2 - 5](#)
2. Remove the processor [page 2 - 15](#)
3. Install the processor [page 2 - 17](#)

### To remove the 3.75G Module:

1. Remove the battery [page 2 - 5](#)
2. Remove the 3.75G [page 2 - 18](#)

### To remove the Keyboard:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 19](#)

### To remove the Modem:

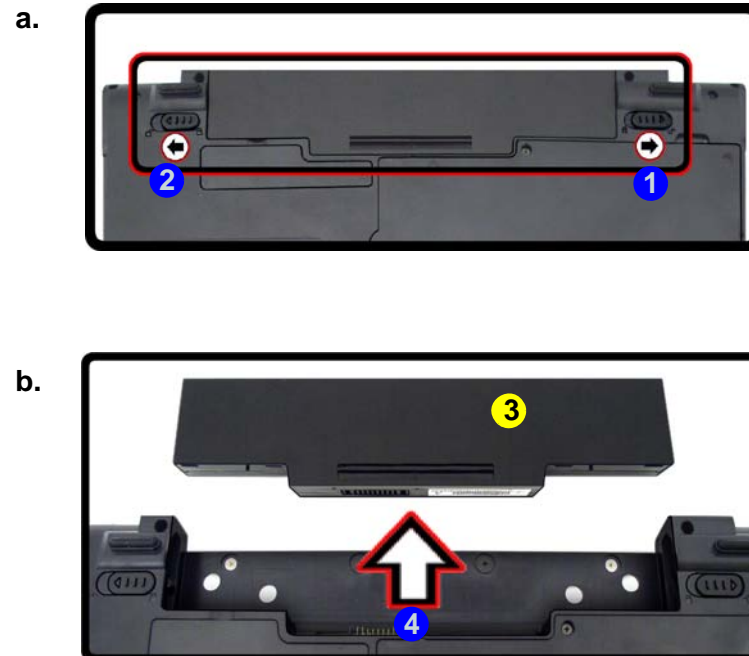
1. Remove the battery [page 2 - 5](#)
2. Remove the HDD [page 2 - 6](#)
3. Remove the system memory [page 2 - 11](#)
4. Remove the Optical device [page 2 - 9](#)
5. Remove the processor [page 2 - 15](#)
6. Remove the keyboard [page 2 - 19](#)
7. Remove the modem [page 2 - 20](#)

### To remove the Bluetooth Module:

1. Remove the battery [page 2 - 5](#)
2. Remove the HDD [page 2 - 6](#)
3. Remove the system memory [page 2 - 11](#)
4. Remove the Optical device [page 2 - 9](#)
5. Remove the processor [page 2 - 15](#)
6. Remove the keyboard [page 2 - 19](#)
7. Remove the modem [page 2 - 20](#)
8. Remove the Bluetooth [page 2 - 21](#)

## Removing the Battery

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



*Figure 1*  
**Battery Removal**

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



3. Battery

## Disassembly

*Figure 2*  
**HDD Assembly  
Removal**

- a. Locate the HDD bay cover and remove the screw(s).

## Removing the Hard Disk Drive

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

### Hard Disk Upgrade Process

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



- 2 Screws



#### HDD System Warning

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

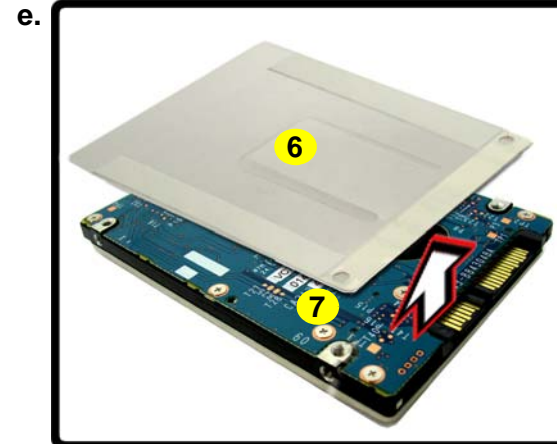
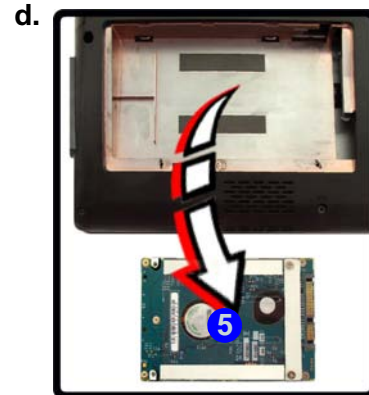
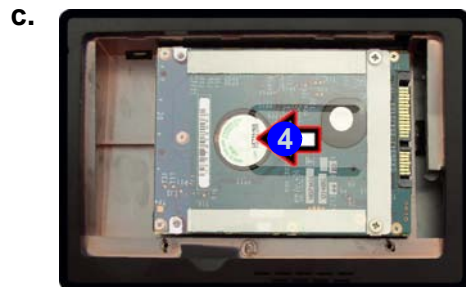
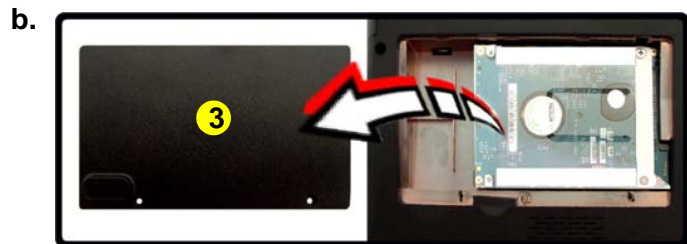
You have backed up any data you want to keep from your old HDD.

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

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

For **M770CU/M775CU** computers:

3. Remove the hard disk bay cover **3**.
4. Grip the tab and slide the hard disk in the direction of arrow **4**.
5. Lift the hard disk out of the bay **5**.
6. Remove the adhesive cover **6** from the hard disk **7**.
7. Reverse the process to install a new hard disk (do not forget to replace all the screws and covers).



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

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



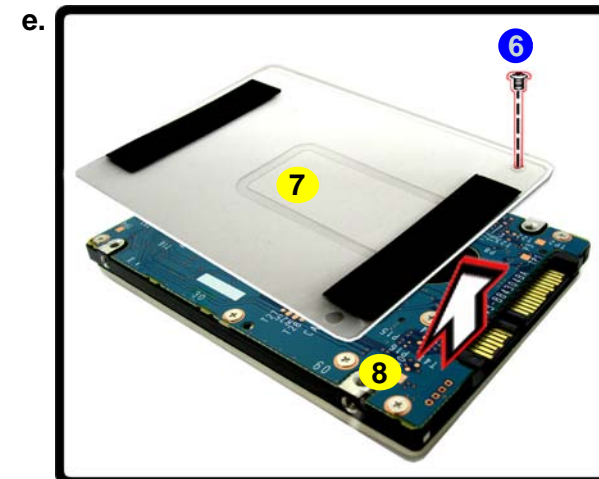
## Disassembly

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

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

For **W760CU/W765CU** computers:

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



- 3. HDD Bay Cover
- 7. Adhesive Cover
- 8. HDD

- 1 Screw



## Removing the Optical (CD/DVD) Device

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. **M770CU/M775CU (see over for W760CU/W765CU)**: Locate the hard disk bay cover **1** and remove screws **2** - **3**.
3. Remove the hard disk bay cover **1**.
4. Remove the screw at point **4**, and use a screwdriver to carefully push out the optical device **6** at point **5**.
5. 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).
6. Restart the computer to allow it to automatically detect the new device.

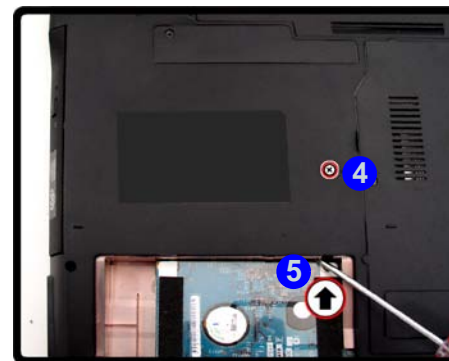
*Figure 5*  
**Optical Device Removal**

- a. Remove the screws.
- b. Remove the cover.
- c. Remove the screw.
- d. Push the optical device out off the computer at point 5.

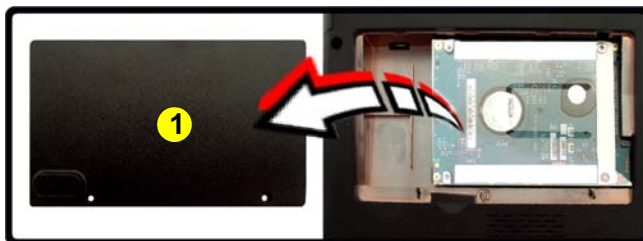
a.



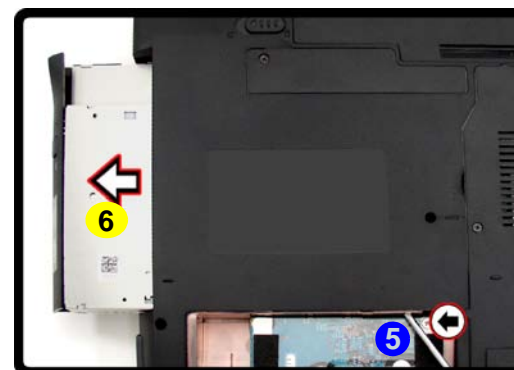
c.



b.



d.



1. HDD Bay Cover
6. Optical Device

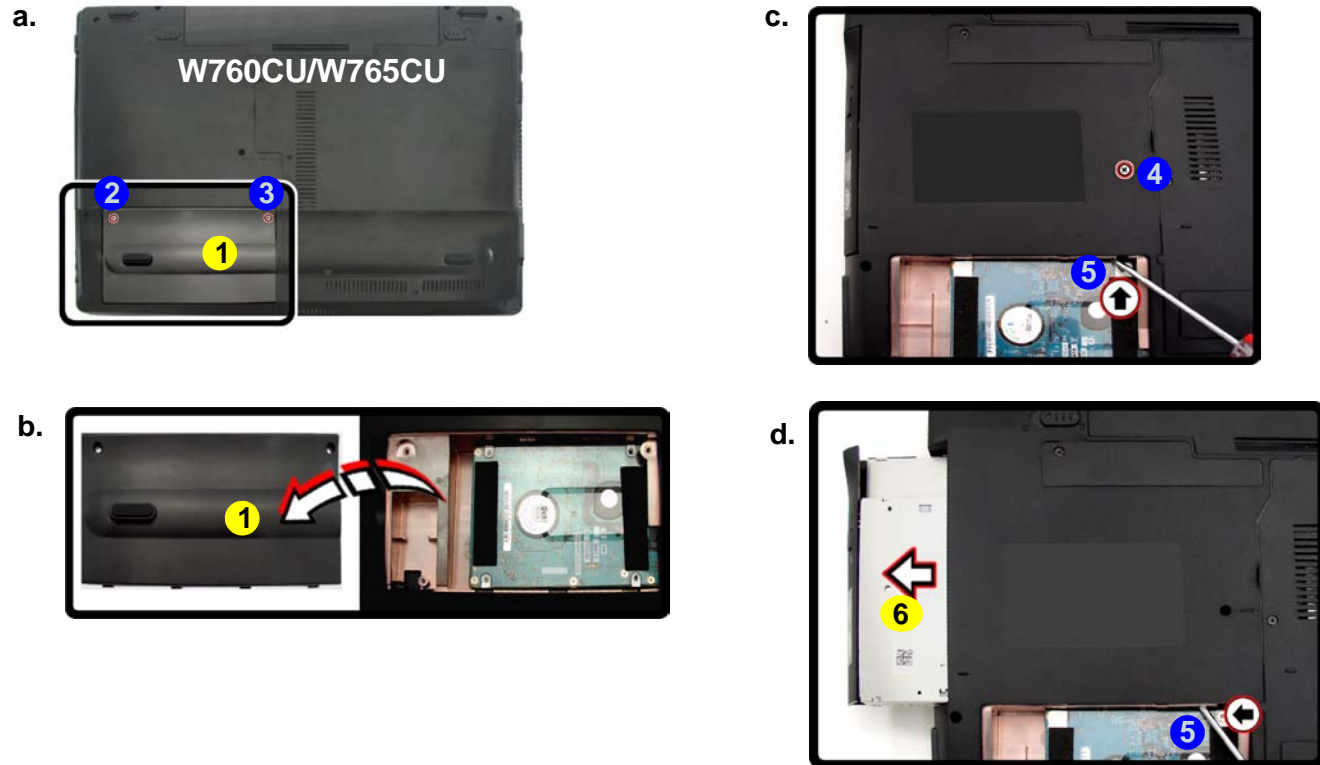
- 3 Screws

## Disassembly

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

- a. Remove the screws.
- b. Remove the cover.
- c. Remove the screw.
- d. Push the optical device out off the computer at point 5.

7. **W760CU/W765CU**: Locate the hard disk bay cover **1** and remove screws **2** - **3**.
8. Remove the hard disk bay cover **1**.
9. Remove the screw at point **4**, and use a screwdriver to carefully push out the optical device **6** at point **5**.
10. 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).
11. Restart the computer to allow it to automatically detect the new device.



1. HDD Bay Cover
6. Optical Device

- 3 Screws

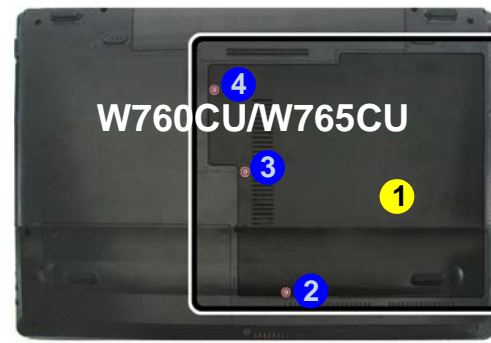
## Removing the System Memory (RAM)

The computer has two memory sockets for 200 pin Small Outline Dual In-line Memory Modules (SO-DIMM) supporting **DDR3** 1066/1333MHz. The main memory can be expanded up to 8GB. The SO-DIMM modules supported are 1GB, 2GB and 4GB and **DDRIII** Modules. The total memory size is automatically detected by the POST routine once you turn on your computer.

### Memory Upgrade Process

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)).
2. Locate the RAM & CPU bay cover **1**, and remove screws **2** - **4**.
3. Carefully (**a fan and cable are attached to the under side of the cover**) lift up the bay cover.
4. Carefully disconnect the fan cable **5**, and remove the cover **1**.

a.



b.

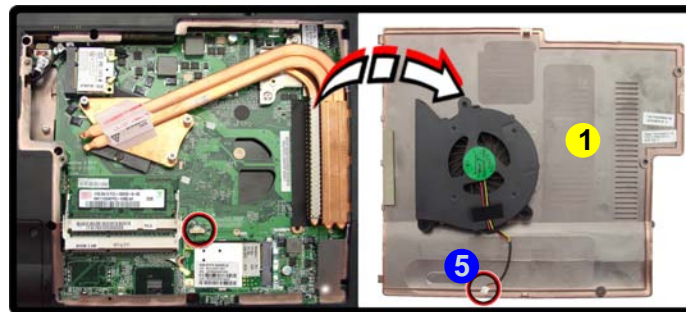
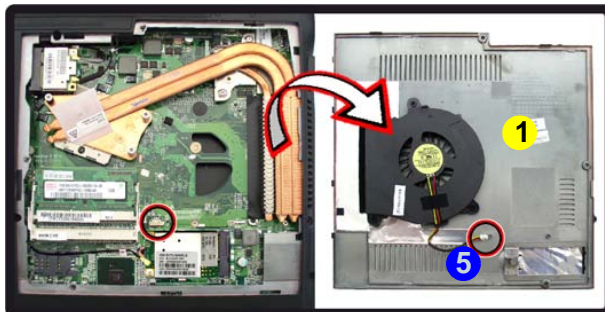


Figure 7  
RAM Module  
Removal

- a. Remove the screws.
- b. 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. Ram & CPU Bay Cover

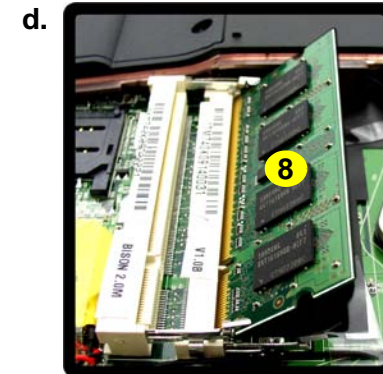
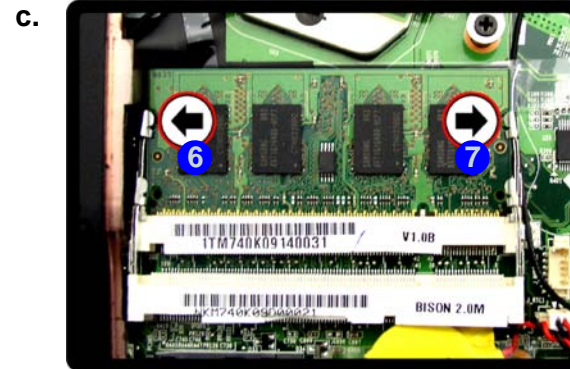
- 3 Screws

## Disassembly

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

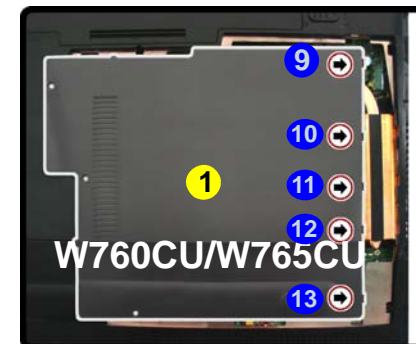
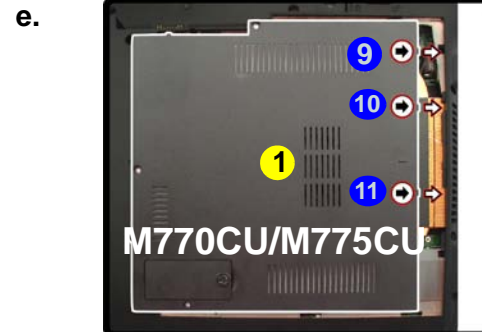
- c. Pull the release latch(es).
- d. Remove the module(s).
- e. Properly re-insert the bay cover pins.

5. Gently pull the two release latches (6 & 7) on the sides of the memory socket in the direction indicated by the arrows (*Figure 8c*).



6. The RAM module(s) 8 will pop-up (*Figure 8d*), and you can then remove it.
7. Pull the latches to release the second module if necessary.
8. Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
9. The module's pin alignment will allow it to only fit one way. Make sure the module is seated as far into the slot as it will go. DO NOT FORCE the module; it should fit without much pressure.
10. Press the module in and down towards the mainboard until the slot levers click into place to secure the module.
11. Replace the bay cover and screws (**make sure you reconnect the fan cable before screwing down the bay cover**).

**Note** that there are three 9 - 11 (M770CU/M775CU)/five 9 - 13 (W760CU/W765CU) cover pins which need to be aligned with slots in the case, to insure a proper cover fit, before screwing down the bay cover 1.



12. Restart the computer to allow the BIOS to register the new memory configuration as it starts up.

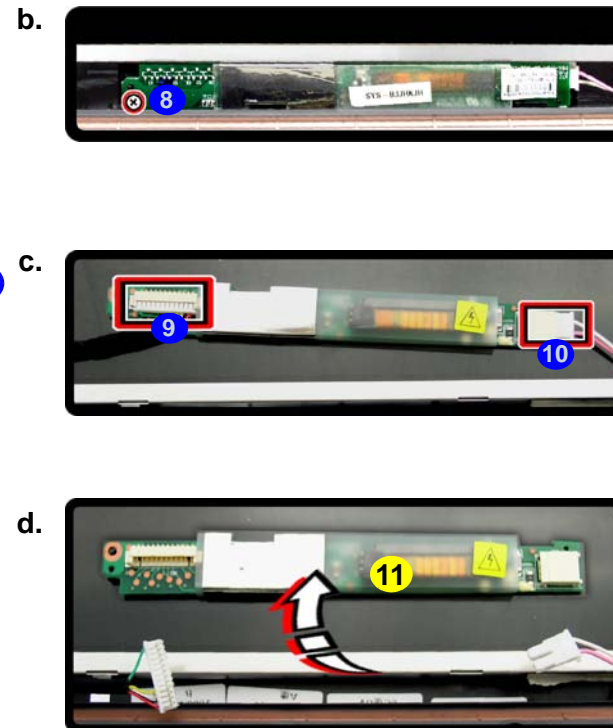
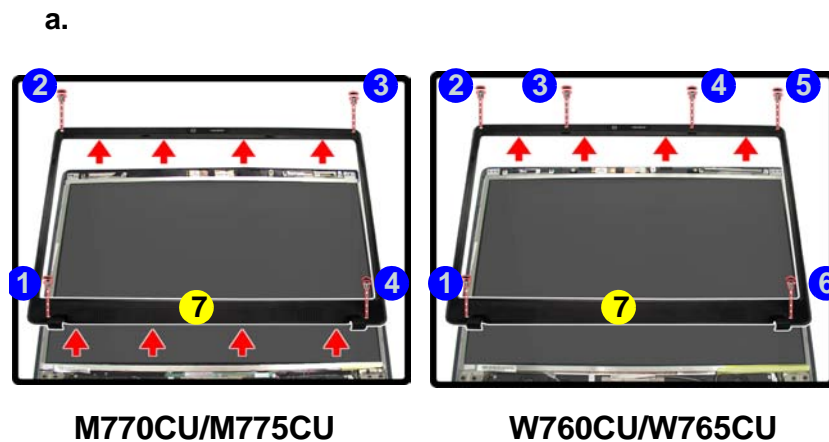


8. RAM Module(s)



## Removing the Inverter Board

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. Remove any rubber covers, screws (M770CU/M775CU) ① - ④/(W760CU/W765CU) ① - ⑥ ([Figure 9a](#)), then run your finger around the middle of the frame to carefully unsnap the LCD front panel module ⑦ from the back.
3. Discharge the remaining system power (see [Inverter Power Warning](#) below).
4. Remove screw ⑧ ([Figure 9b](#)) from the inverter, and carefully lift the inverter board up slightly.
5. Disconnect cables ⑨ & ⑩ ([Figure 9c](#)) from the inverter, then remove the inverter ⑪ ([Figure 9d](#)) from the top case assembly.



*Figure 9*  
**Inverter Board Removal**

- a. Remove the 4/6 screws and unsnap the LCD front panel module from the back.
- b. Remove the screw and discharge the remaining power from the inverter board and lift the board up slightly.
- c. Disconnect the cables from the inverter.
- d. Remove the inverter.



### Inverter Power Warning

In order to prevent a short circuit when removing the inverter it is necessary to discharge any remaining system power. To do so, press the computer's power button for a few seconds before disconnecting the inverter cable.

7. LCD Front Panel  
11. Inverter Board

- 5 Screws (M770CU/M775CU)/  
7 Screws (W760CU)/  
W765CU)

## Disassembly

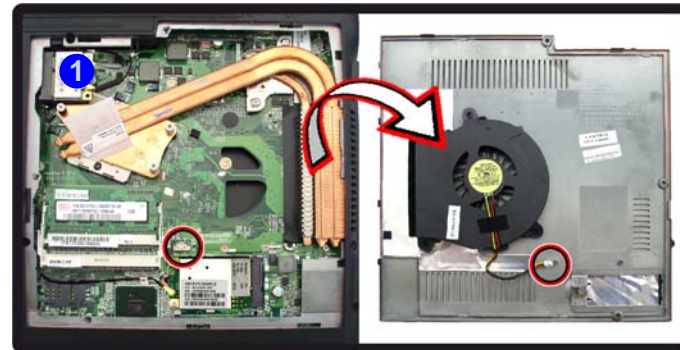
*Figure 10*  
**Wireless LAN  
Module Removal**

- a. Remove the cover.
- b. Disconnect the cables and remove the screw.
- c. The WLAN module will pop up.
- d. Lift the WLAN module out.

## Removing the Wireless LAN Module

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 11](#)).
2. The Wireless LAN module will be visible at point **1** on the mainboard.
3. Carefully disconnect cables **2** - **3**, then remove screw **4** from the module socket.
4. The Wireless LAN module **5** will pop-up.
5. Lift the Wireless LAN module ([Figure 14d](#)) up and off the computer.

a.



b.



c.



d.



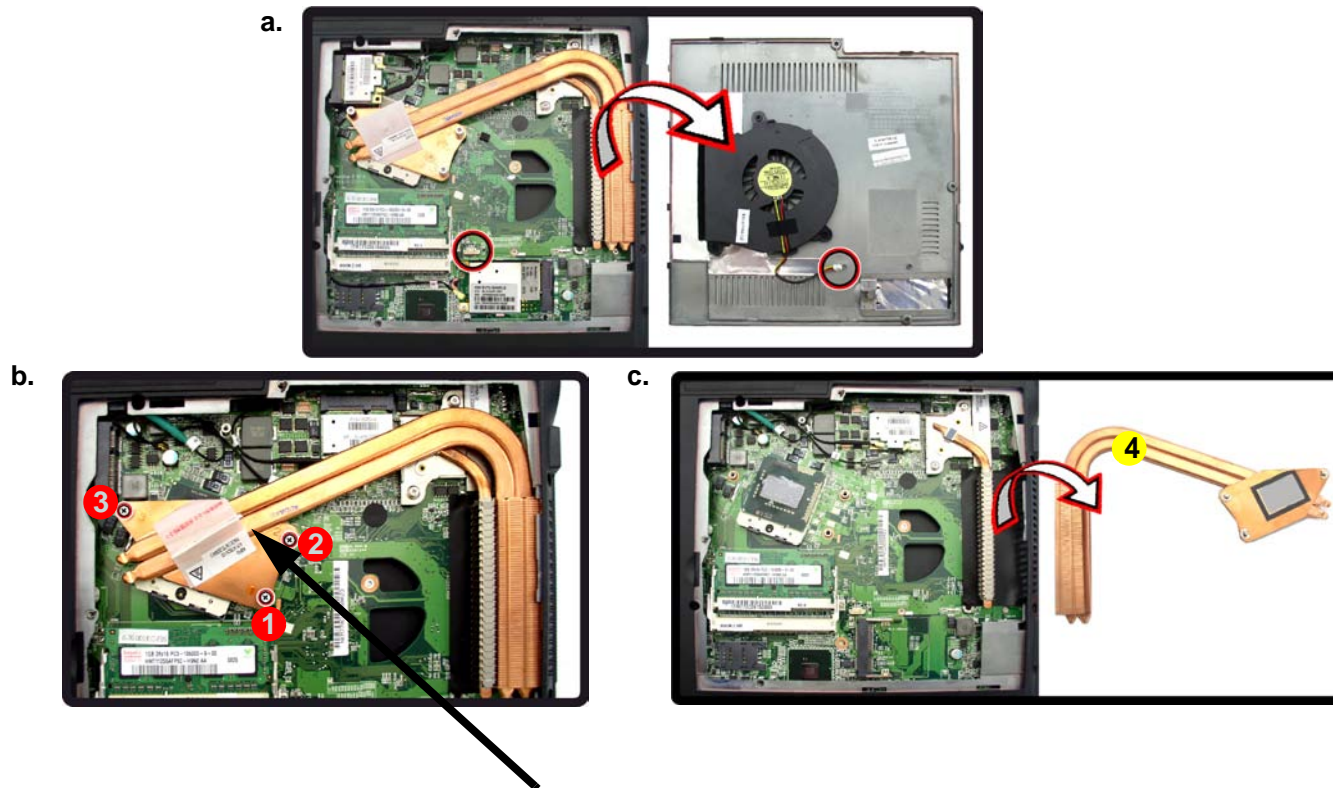
5. WLAN Module.

- 1 Screw

# Removing and Installing the Processor

## Processor Removal Procedure

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)), the component bay cover ([page 2 - 11](#)) and the WLAN module ([page 2 - 14](#)).
2. Loosen the CPU heat sink screws in the order **3**, **2** & **1** (the reverse order as indicated on the label).
3. Carefully lift up the heat sink **4** ([Figure 11c](#)) off the computer.



**Note:** Loosen the screws in the reverse order 3, 2, 1 as indicated on the label.

*Figure 11*  
**Processor Removal**

- a. Remove the cover and locate the heat sink.
- b. Loosen the screws in the order indicated.
- c. Remove the heat sink.



### CPU Warning

In order to prevent damaging the contact pins when removing the CPU, it is necessary to first remove the WLAN module from the computer.



### 4. Heat Sink


- 3 Screws



## Disassembly

*Figure 12*  
**Processor Removal**  
**(cont'd)**

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

- 4. Turn the release latch **6** towards the unlock symbol , to release the CPU (*Figure 12a*).
- 5. Carefully (it may be hot) lift the CPU **7** up out of the socket (*Figure 12b*).
- 6. See [page 2 - 17](#) for information on inserting 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!).

d.



Unlock



Lock

e.



### Caution


The heat sink, and CPU area in general, contains parts which are subject to high temperatures. Allow the area time to cool before removing these parts.

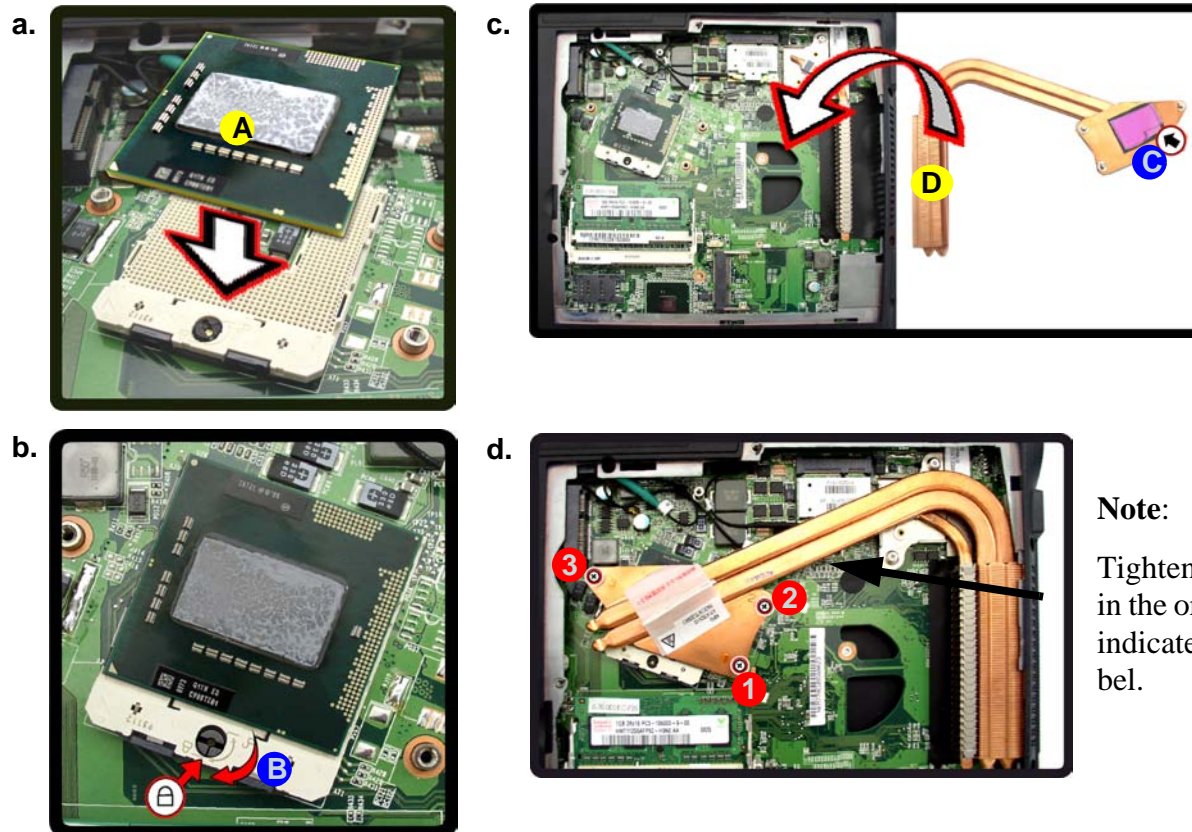


7. CPU



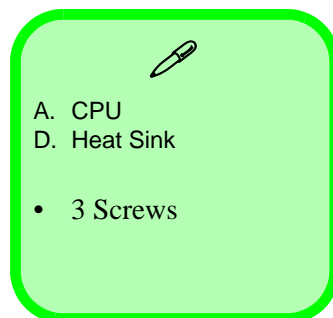
## Processor Installation Procedure

1. Insert the CPU **A**, pay careful attention to the pin alignment, it will fit only one way (DO NOT FORCE IT!), and turn the release latch **B** towards the lock symbol  (**Figure 13b**).
2. **Remove the sticker C** (**Figure 13c**) from the heat sink.
3. Insert the heat sink **D** as indicated in **Figure 13c**.
4. Tighten the CPU heat sink screws in the order **1**, **2** & **3** (the order as indicated on the label and **Figure 13d**).
5. Replace the component bay cover and tighten the screws (**page 2 - 15**).



### Note:

Tighten the screws in the order 1, 2, 3 as indicated on the label.



*Figure 13*  
**Processor Installation**

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

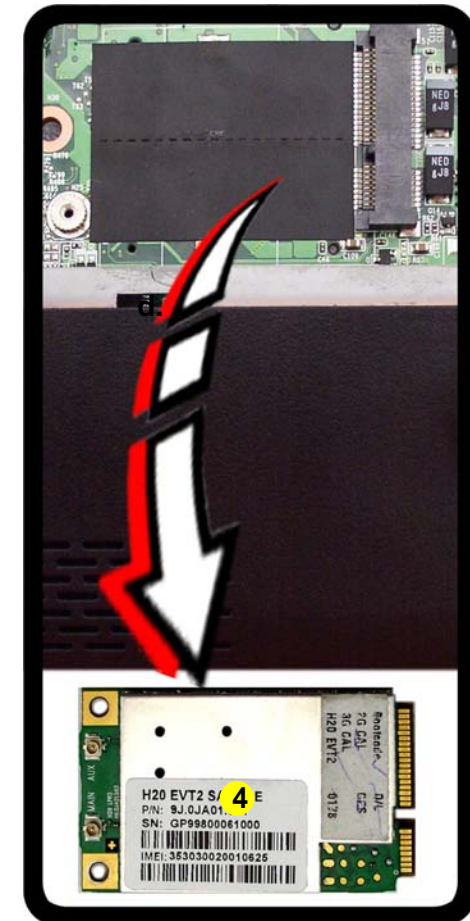
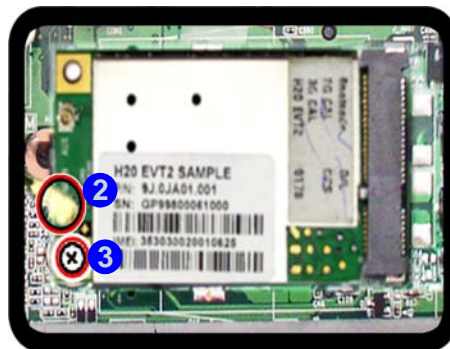
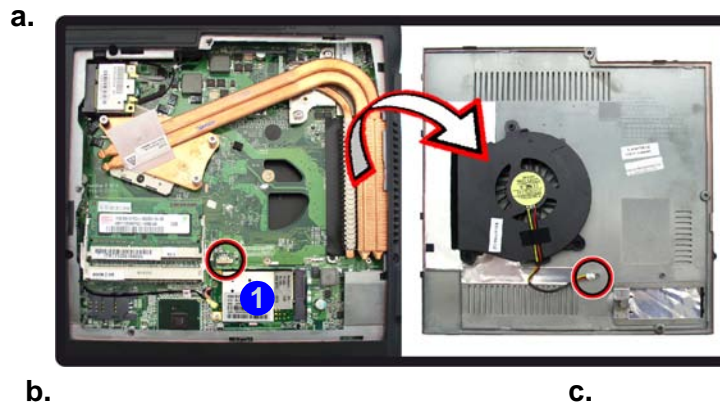
## Disassembly

*Figure 14*  
**3.75G Module Removal**

- a. Remove the cover.
- b. Disconnect the cable and remove the screw.
- c. The 3.75G module will pop up.
- d. Lift the 3.75G module out.

## Removing the 3.75G Module

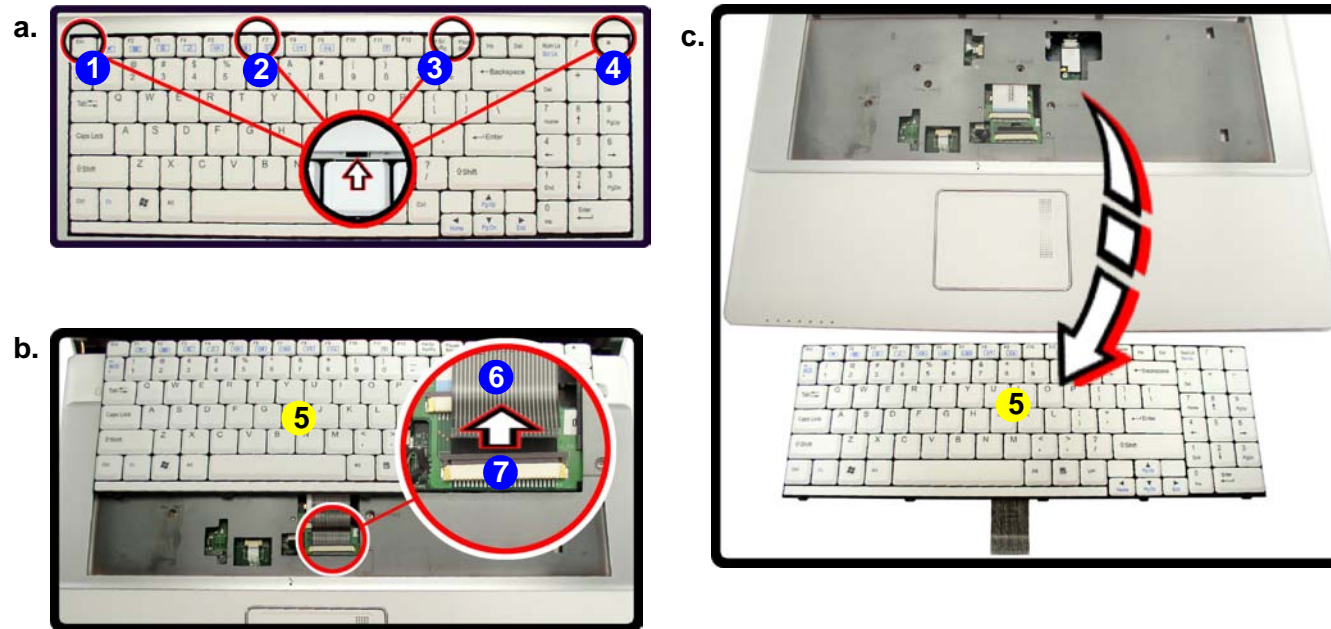
1. Turn **off** the computer, remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 11](#)).
2. The 3.75G module will be visible at point **1** on the mainboard.
3. Carefully disconnect the cable **2**, then remove the screw **3** from the module socket.
4. The 3.75G module **4** will pop-up.
5. Lift the 3.75G module ([Figure 14d](#)) up and off the computer.



4. 3.75G Module.
- 1 Screw

## Removing the Keyboard

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. Press the **four** 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 **5** up, being careful not to bend the keyboard ribbon cable ([Figure 15b](#)).
4. Disconnect the keyboard ribbon cable **6** from the locking collar socket **7**.



*Figure 15*  
**Keyboard Removal**

- a. Press the four latches to release the keyboard.
- b. Lift the keyboard up and disconnect the cable from the locking collar.
- c. Remove the keyboard.



### 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.



5. Keyboard



## Disassembly

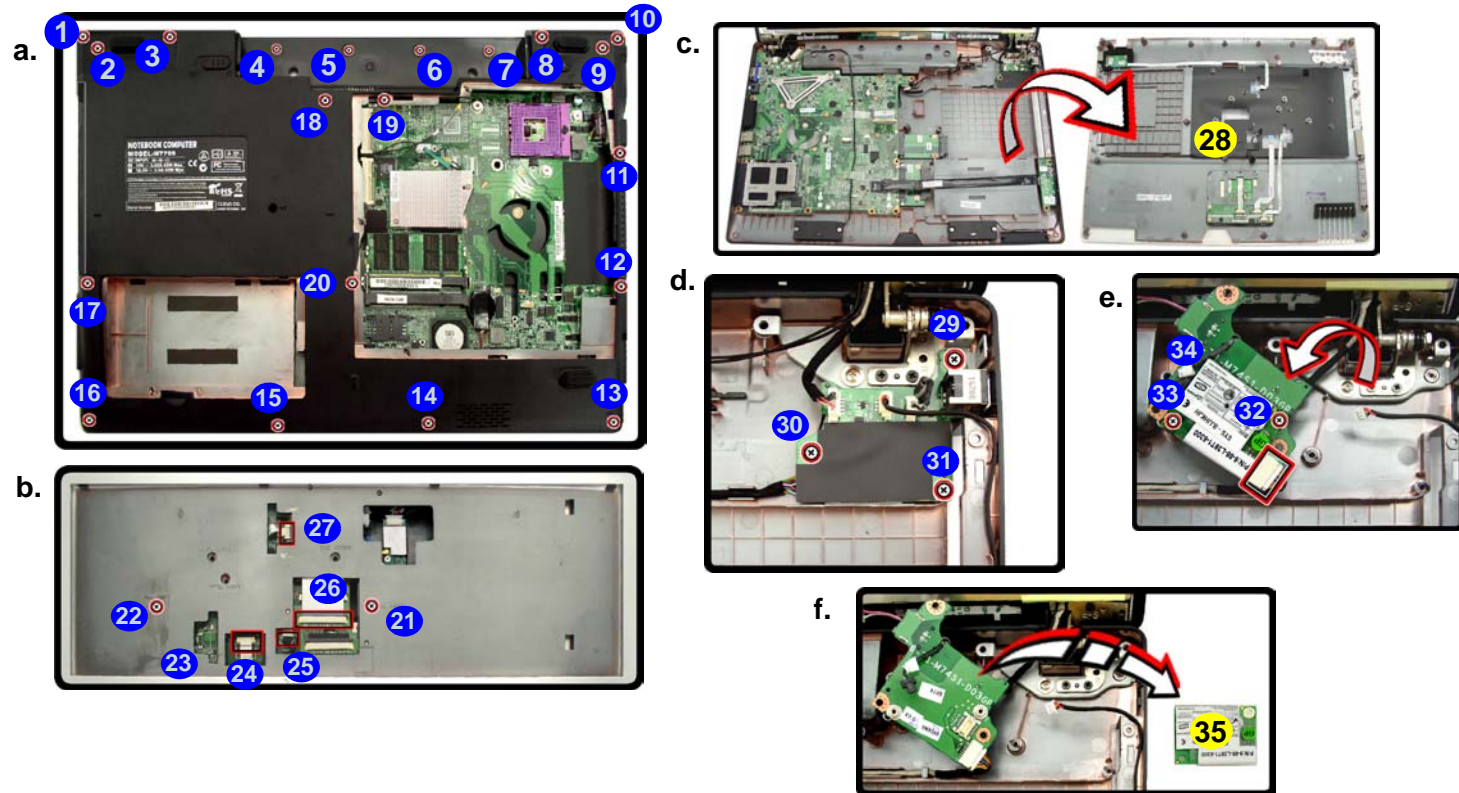
Figure 16

## Modem Removal

- a. Remove the screws and disconnect the cable.
- b. Turn the computer over, remove the screws and disconnect the cable.
- c. Lift the cover off the computer.
- d. Remove the screws.
- e. Remove the screws and disconnect the connector.
- f. Lift the modem out.

## Removing the Modem

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)), HDD ([page 2 - 6](#)), component bay cover ([page 2 - 11](#)), optical device ([page 2 - 9](#)), CPU ([page 2 - 15](#)), and keyboard ([page 2 - 19](#)).
2. Remove screws **1** - **20** from the bottom case ([Figure 16a](#)).
3. Turn the computer over, remove screws **21** - **22** and disconnect cables **23** - **27** ([Figure 16b](#)).
4. Carefully lift the top case **28** up and off the computer ([Figure 16c](#)).
5. Remove screws **29** - **33** ([Figure 16d](#)) from the computer and modem module.
6. Lift the modem up and separate the modem from the connector **34** ([Figure 16e](#)).
7. Lift the modem **35** off the computer.

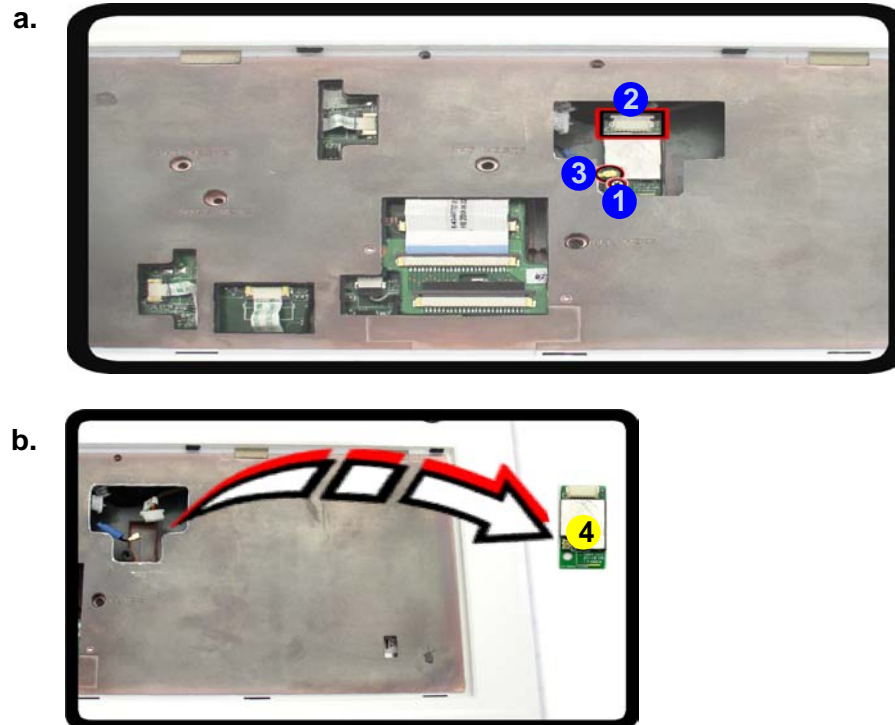


28. Top Case  
35. Modem

- 27 Screws

## Removing the Bluetooth Module

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)), HDD ([page 2 - 6](#)), component bay cover ([page 2 - 11](#)), optical device ([page 2 - 9](#)), CPU ([page 2 - 15](#)), and keyboard ([page 2 - 19](#)).
2. Locate the Bluetooth module, and remove the screw **1**.
3. Carefully separate the Bluetooth module from the connector **2** and disconnect the cable **3**.
4. Lift the Bluetooth module **4** ([Figure 17c](#)) up and off the computer.



*Figure 17*  
**Bluetooth Module Removal**

- a. Remove the screw and disconnect the cable and the connector.
- b. Lift the Bluetooth module up off the socket.



4. Bluetooth Module

- 1 Screw





# Appendix A: Part Lists

This appendix breaks down the *M770CU/M775CU/W760CU/W765CU* 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 Lists

### Part List Illustration Location

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

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

Parts	M770CU	M775CU	W760CU	W765CU
Top with Fingerprint	<i>page A - 3</i>	<i>page A - 4</i>	<i>page A - 11</i>	<i>page A - 12</i>
Top without Fingerprint	<i>page A - 5</i>	<i>page A - 6</i>	<i>page A - 13</i>	<i>page A - 14</i>
Bottom	<i>page A - 7</i>		<i>page A - 15</i>	
LCD	<i>page A - 8</i>		<i>page A - 16</i>	
COMBO	<i>page A - 9</i>		<i>page A - 17</i>	
DVD-Dual Drive	<i>page A - 10</i>		<i>page A - 18</i>	

Top with Fingerprint (M770CU)

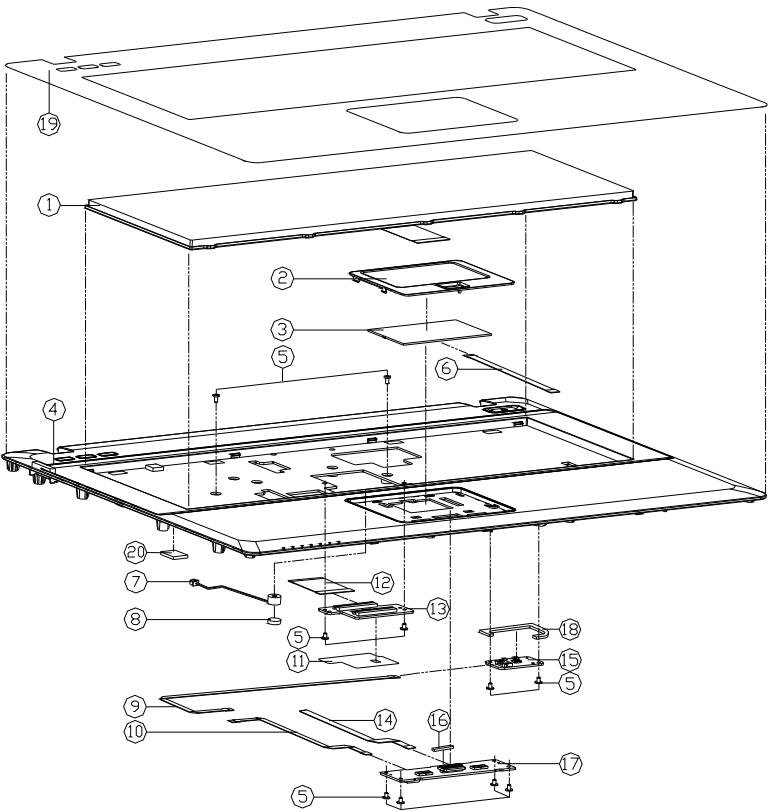


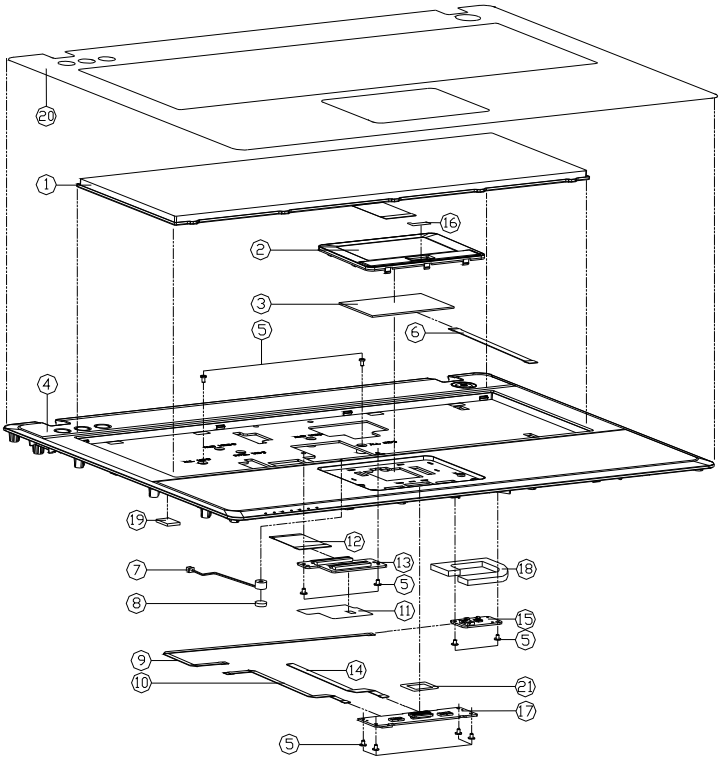
Figure A - 1  
Top with  
Fingerprint  
(M770CU)

ITEM	PART NAME	PART NO	REMARK
1	TOP CASE MODULE M770SU	6-B0-M7700-010-11	FDR M770SU
2	TOUCH PAD COVER M770SU	6-B0-D90C0-070-11	FDR M771SU
3	TOUCH PAD CONNECTOR M770SU	6-42-M7702-030	
4	TOUCH PAD TM-00300-003 M770SU	6-49-M7452-010	FDR M770CU
5	TOUCH PAD TM-00300-003 M770SU	6-49-M7452-020	FDR M770CU
6	TOP CASE MODULE M770SU	6-39-M7702-013	FDR M770SU
7	TOP CASE MODULE M770SU	6-39-M7712-013	FDR M771SU
8	TOP CASE MODULE M770SU	6-35-B1120-3RE	
9	TOP CASE MODULE M770SU	6-43-M7650-041	
10	TOP CASE MODULE M770SU	6-23-EM62C-010	
11	TOP CASE MODULE M770SU	6-47-M7702-030	
12	TOP CASE MODULE M770SU	6-43-M7700-042	
13	TOP CASE MODULE M770SU	6-43-M7707-011	
14	TOP CASE MODULE M770SU	6-40-M7707-010	
15	TOP CASE MODULE M770SU	6-43-M7707-010	
16	TOP CASE MODULE M770SU	6-77-M7707-001B	
17	TOP CASE MODULE M770SU	6-43-M7700-031	
18	TOP CASE MODULE M770SU	6-77-M7705-001A	
19	TOP CASE MODULE M770SU	6-47-M7705-050	
20	TOP CASE MODULE M770SU	6-77-M770A-N01	FDR M77XCU
21	TOP CASE MODULE M770SU	6-77-M765A-N03C	FDR M770SU
22	TOP CASE MODULE M770SU	6-77-M765A-N03D	FDR M770SUN
23	TOP CASE MODULE M770SU	6-47-M7702-041	
24	TOP CASE MODULE M770SU	6-40-M7702-031	
25	TOP CASE MODULE M770SU	6-47-M7702-011	

Part Lists

Top with Fingerprint (M775CU)

Figure A - 2  
Top with  
Fingerprint  
(M775CU)



ITEM	PART	NAME	PART NO.	REMARK
1	TOP COVER	TOP COVER	6-40-M7700-010-1	
2	FINGERPRINT SENSOR	FINGERPRINT SENSOR	6-42-M7752-102	
3	TOUCH PAD	TOUCH PAD	6-49-M7452-010 FOR M775SUN	
4	TOUCH PAD	TOUCH PAD	6-49-M7452-020 FOR M775CU	
5	TOP CASE	TOP CASE	6-39-M7752-013	
6	TOUCH PAD	TOUCH PAD	6-35-M7752-030	
7	TOUCH PAD	TOUCH PAD	6-43-M7650-041	
8	TOUCH PAD	TOUCH PAD	6-23-M7652-010	
9	TOUCH PAD	TOUCH PAD	6-47-M7702-030	
10	TOUCH PAD	TOUCH PAD	6-43-M7702-042	
11	TOUCH PAD	TOUCH PAD	6-43-M7702-011	
12	TOUCH PAD	TOUCH PAD	6-40-M7707-010	
13	TOUCH PAD	TOUCH PAD	6-43-M7707-010	
14	TOUCH PAD	TOUCH PAD	6-43-M7707-011	
15	TOUCH PAD	TOUCH PAD	6-43-M7707-012	
16	TOUCH PAD	TOUCH PAD	6-43-M7707-013	
17	TOUCH PAD	TOUCH PAD	6-43-M7707-014	
18	TOUCH PAD	TOUCH PAD	6-43-M7707-015	
19	TOUCH PAD	TOUCH PAD	6-43-M7707-016	
20	TOUCH PAD	TOUCH PAD	6-43-M7707-017	
21	TOUCH PAD	TOUCH PAD	6-43-M7707-018	

Top without Fingerprint (M770CU)

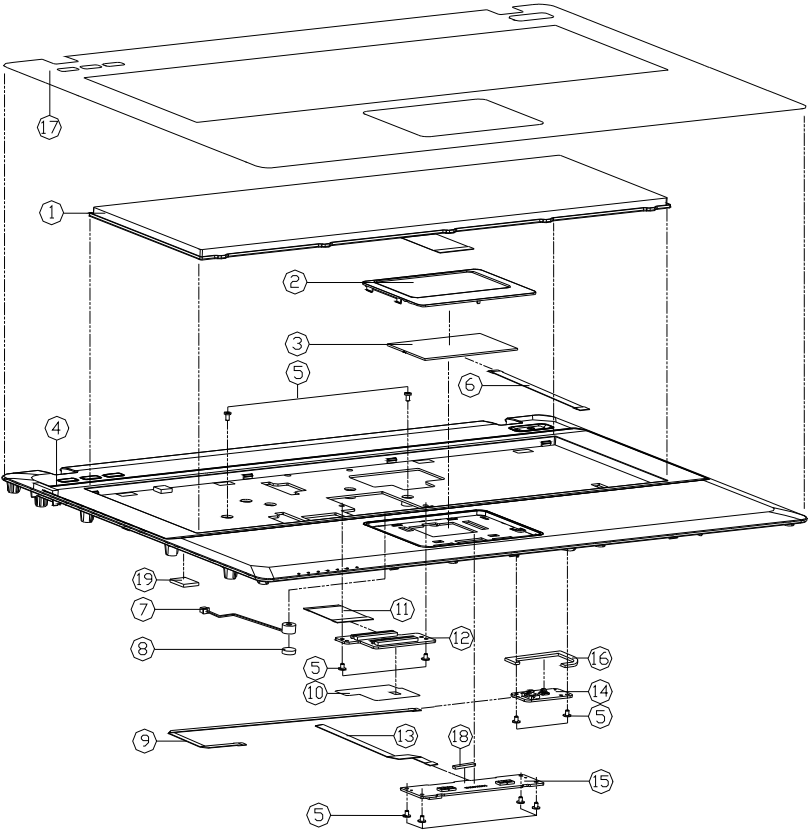


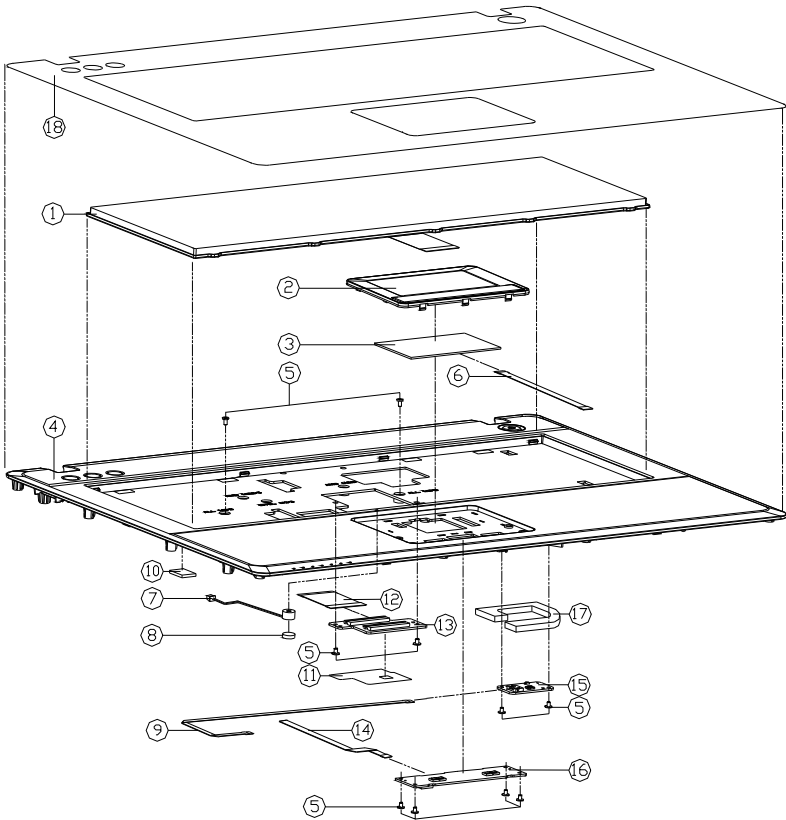
Figure A - 3  
Top without  
Fingerprint  
(M770CU)

ITEM	PART NAME	PART NO	REMARK
1	TOP CASE MODULE M770CU (FOR M770CU)	6-80-M7700-010-1	FOR M770CU
2	TOUCH PAD COVER W/O FPC (FOR M770CU)	6-80-D9000-070-1	FOR M770CU
3	TOUCH PAD COVER W/O FPC (FOR M770CU)	6-42-M7702-042	
4	TOUCH PAD CONNECTOR W/O FPC (FOR M770CU)	6-42-M7712-042	
5	TOUCH PAD CONNECTOR W/O FPC (FOR M770CU)	6-49-M7452-010	FOR M770CU
6	TOUCH PAD CONNECTOR W/O FPC (FOR M770CU)	6-49-M7452-020	FOR M770CU
7	TOP CASE MODULE M770CU (FOR M770CU)	6-39-M7702-013	FOR M770CU
8	TOP CASE MODULE M770CU (FOR M770CU)	6-39-M7712-013	FOR M770CU
9	TOP CASE MODULE M770CU (FOR M770CU)	6-35-B1120-3RE	
10	TOP CASE MODULE M770CU (FOR M770CU)	6-43-M7650-041	
11	TOP CASE MODULE M770CU (FOR M770CU)	6-23-M7620-010	
12	TOP CASE MODULE M770CU (FOR M770CU)	6-47-M7702-020	
13	TOP CASE MODULE M770CU (FOR M770CU)	6-43-M7700-042	
14	TOP CASE MODULE M770CU (FOR M770CU)	6-40-M7707-010	
15	TOP CASE MODULE M770CU (FOR M770CU)	6-43-M7707-010	
16	TOP CASE MODULE M770CU (FOR M770CU)	6-77-M7707-001B	
17	TOP CASE MODULE M770CU (FOR M770CU)	6-43-M7700-031	
18	TOP CASE MODULE M770CU (FOR M770CU)	6-77-M7705-D01A	
19	TOP CASE MODULE M770CU (FOR M770CU)	6-77-M7652-003B-1	FOR M770CU/CL
20	TOP CASE MODULE M770CU (FOR M770CU)	6-77-M7652-003C-1	FOR M770CU
21	TOP CASE MODULE M770CU (FOR M770CU)	6-47-M7702-041	
22	TOP CASE MODULE M770CU (FOR M770CU)	6-40-M7702-031	
23	TOP CASE MODULE M770CU (FOR M770CU)	6-47-M7705-050	
24	TOP CASE MODULE M770CU (FOR M770CU)	6-47-M7702-011	

Part Lists

Top without Fingerprint (M775CU)

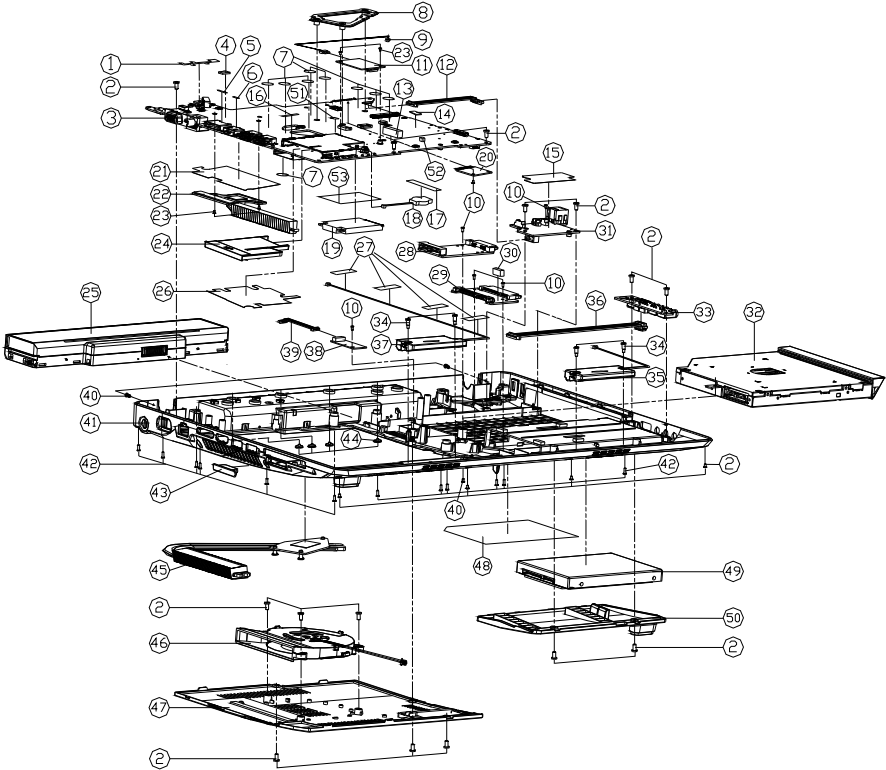
Figure A - 4  
Top without Fingerprint  
(M775CU)



ITEM	PART NAME	PART NO	REMARK
1	TOP COVER MODULE W/O F.P. M775CU	6-42-M7752-010-1	
2	TOP COVER MODULE W/O F.P. M775CU	6-42-M7752-010-2	
3	TOUCH PAD SIMPLIFIED 10-0000-001 M775CU	6-49-M7452-010	F FOR M77XSU/S
4	TOUCH PAD 10-0000-003 M775CU	6-49-M7412-010	F FOR M77XCU
5	TOP CASE MODULE (G/T OPTION)	6-39-M7752-013	
6	TOP CASE MODULE (G/T OPTION)	6-39-M7752-013	
7	KEYBOARD CABLE W/O F.P. M775CU	6-43-M7650-041	
8	KEYBOARD CABLE W/O F.P. M775CU	6-43-M7650-041	
9	TOP CASE MIC (G/T OPTION)	6-23-EM622-010	
10	TOP CASE MIC (G/T OPTION)	6-47-M7702-030	
11	TOP CASE MIC (G/T OPTION)	6-47-M7702-030	
12	TOP CASE MIC (G/T OPTION)	6-47-M7702-030	
13	TOP CASE MIC (G/T OPTION)	6-47-M7702-030	
14	TOP CASE MIC (G/T OPTION)	6-47-M7702-030	
15	TOP CASE MIC (G/T OPTION)	6-47-M7702-030	
16	TOP CASE MIC (G/T OPTION)	6-47-M7702-030	
17	TOP CASE MIC (G/T OPTION)	6-47-M7702-030	
18	TOP CASE MIC (G/T OPTION)	6-47-M7702-030	



Bottom (M770CU/M775CU)



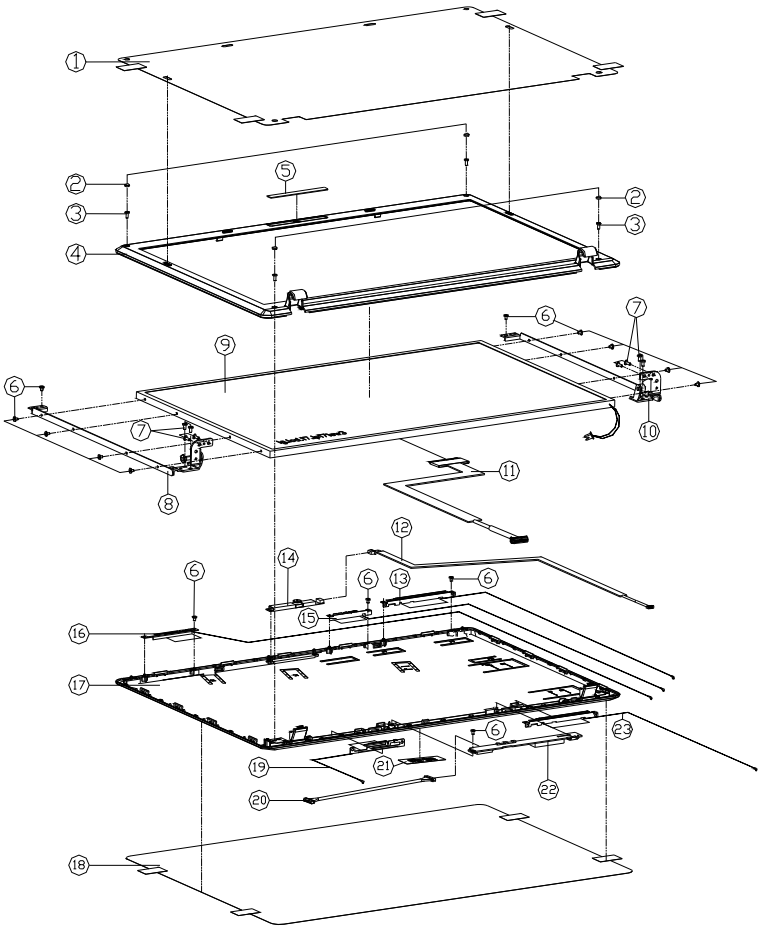
ITEM	PART NAME	PART NO	REMARK
1	MAIN BOARD VISA REV 3.0 (M770CU/M775CU)	6-40-M770CU-001	
2	SCREW M2.5X4.0 (M770CU/M775CU)	6-35-B6125-S0A	
3	MAIN BOARD VISA REV 3.0 (M770CU/M775CU)	6-77-M770CU-003	
4	NEW TOP COVER (M770CU/M775CU)	6-47-M770CU-001	
5	POWER SUPPLY (M770CU/M775CU)	6-47-M770CU-010	
6	COOLING FAN (M770CU/M775CU)	6-47-M770CU-002	
7	HEAT SINK (M770CU/M775CU)	6-40-M770CU-001	
8	CPU SUPPORT BRACKET (M770CU/M775CU)	6-33-M770CU-001	
9	NEW CPU (M770CU/M775CU)	6-43-M770CU-010	
10	NEW CPU (M770CU/M775CU)	6-35-B120-S0E	
11	NEW CPU (M770CU/M775CU)	6-68-M7651-001	OPTION
12	NEW CPU (M770CU/M775CU)	6-68-M7651-002	OPTION
13	NEW CPU (M770CU/M775CU)	6-43-M770CU-002	
14	NEW CPU (M770CU/M775CU)	6-47-M770CU-001	
15	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
16	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
17	TAPE (M770CU/M775CU)	6-40-M7651-001	
18	NEW CPU (M770CU/M775CU)	6-23-20015-P0C	
19	NEW CPU (M770CU/M775CU)	6-68-M7651-001	OPTION
20	NEW CPU (M770CU/M775CU)	6-68-M7651-002	OPTION
21	NEW CPU (M770CU/M775CU)	6-43-M770CU-002	
22	NEW CPU (M770CU/M775CU)	6-47-M770CU-001	
23	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
24	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
25	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
26	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
27	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
28	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
29	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
30	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
31	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
32	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
33	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
34	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
35	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
36	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
37	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
38	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
39	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
40	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
41	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
42	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
43	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
44	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
45	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
46	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
47	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
48	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
49	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
50	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
51	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	
52	NEW CPU (M770CU/M775CU)	6-47-M7651-001	
53	NEW CPU (M770CU/M775CU)	6-40-M770CU-001	

Figure A - 5  
Bottom  
(M770CU/M775CU)

Part Lists

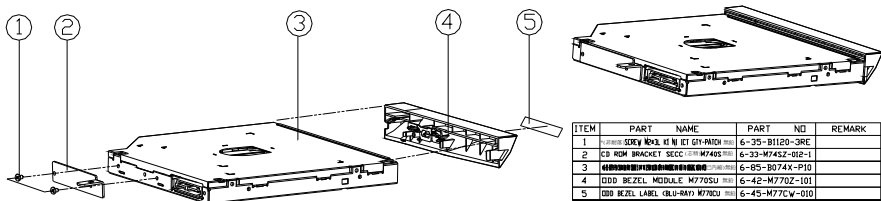
LCD (M770CU/M775CU)

Figure A - 6  
LCD  
(M770CU/M775CU)



ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER PROTECT FILM (C PET M770SU) (PET M775SU)	6-40-M7701-030	
2	LCD FRONT COVER RUBBER SLIP (S 4MM) (L 1.5MM) (M770SU) (M775SU)	6-47-M76S1-010	
3	SCREW NOKIA K01148 9-44D 16/2 ICT NY (M770SU) (M775SU)	6-35-B6120-5R0	
4	LCD FRONT COVER MODULE M770SU (M775SU)	6-39-M7701-012	
5	W/O CCB COSMETIC 8ST PMMA M770SU (M775SU)	6-42-M7701-010	W/O CCB
6	W/O CCB COSMETIC 8ST PMMA M770SU (M775SU)	6-42-M7701-020	W/O CCB
7	SCREW NOKIA K1 16/2 ICT NY (M770SU) (M775SU)	6-35-B6120-5R0	
8	LCD HINGE L (SCECC-K7) M770SU (M775SU)	6-33-M7701-021	
9	LCD TOP VESA COVER W/2 1/2" (6.35) (M770SU) (M775SU)	6-50-NC265-D00	FOR M77XS
9	LCD TOP VESA COVER W/2 1/2" (6.35) (M770SU) (M775SU)	6-50-N7267-G01	FOR M77XS
9	LCD TOP VESA LG LPT170V2-1LB 6.35MM (M770SU) (M775SU)	6-50-N7266-L00	FOR M77XS/SU
9	LCD TOP VESA LG LPT170V2-1LB 6.35MM (M770SU) (M775SU)	6-50-N7267-G00	FOR M77XS/SU
9	LCD TOP VESA LG LPT170V2-1LB 6.35MM (M770SU) (M775SU)	6-50-NA265-L08	FOR M77XS/SU
9	LCD TOP VESA LG LPT170V2-1LB 6.35MM (M770SU) (M775SU)	6-50-NA266-G00	FOR M77XS/SU
9	LCD TOP VESA LG LPT170V2-1LB 6.35MM (M770SU) (M775SU)	6-50-NA265-L00	FOR M77XS/SU
9	LCD TOP VESA LG LPT170V2-1LB 6.35MM (M770SU) (M775SU)	6-50-NA269-L03-A	FOR M77XS/SU
9	LCD TOP VESA LG LPT170V2-1LB 6.35MM (M770SU) (M775SU)	6-50-NA265-L06-A	FOR M77XS/SU
10	LCD HINGE R (SCECC-K7) M770SU (M775SU)	6-33-M7701-011	
11	WIRE CABLE FOR W/O TO LCD 3P M770SU (M775SU)	6-43-M7701-012	
12	WIRE CABLE FOR W/O TO LCD 3P M770SU (M775SU)	6-43-M7701-010	(OPTION) FOR M770SU
13	ANTENNA VESPA PPA 3G 50MM (M770SU) (M775SU)	6-23-M7770-052	(OPTION) FOR M770CU
13	ANTENNA VESPA PPA 3G 50MM (M770SU) (M775SU)	6-23-M7770-050	(OPTION) FOR M770CU
14	W/O CCB COVER FILM FOR M770SU (M775SU)	6-88-M740C-4913	(OPTION)
14	W/O CCB COVER FILM FOR M770SU (M775SU)	6-88-M740C-4922	(OPTION)
15	ANTENNA VESPA PPA 3G 50MM (M770SU) (M775SU)	6-23-M7770-040	(OPTION)
16	ANTENNA VESPA PPA 3G 50MM (M770SU) (M775SU)	6-23-M7770-012	FOR M770S/SU
16	ANTENNA VESPA PPA 3G 50MM (M770SU) (M775SU)	6-23-M7770-010	FOR M770CU
17	LCD BACK COVER MODULE M770SU (M775SU)	6-39-M7701-022	
17	LCD BACK COVER MODULE M770SU (M775SU)	6-39-M7711-022	
17	LCD BACK COVER MODULE M770SU (M775SU)	6-39-M7751-021	
18	LCD BACK COVER PROTECT FILM (PET M770SU) (PET M775SU)	6-40-M7701-040	FOR M770S/SU
18	LCD BACK COVER PROTECT FILM (PET M770SU) (PET M775SU)	6-40-M7751-011	FOR M775S/SU
19	ANTENNA VESPA PPA 3G 50MM (M770SU) (M775SU)	6-23-M7770-021	FOR M770S/SU
19	ANTENNA VESPA PPA 3G 50MM (M770SU) (M775SU)	6-23-M7770-022	FOR M770CU
20	WIRE CABLE FOR INVERTER BOARD TO W/O (M770SU) (M775SU)	6-43-M770R-010	(OPTION)
21	WIRE CABLE FOR INVERTER BOARD TO W/O (M770SU) (M775SU)	6-45-M7415-020	FOR M775S/SU
21	WIRE CABLE FOR INVERTER BOARD TO W/O (M770SU) (M775SU)	6-45-M7415-020-NI	FOR M771S
22	ANTENNA VESPA PPA 3G 50MM (M770SU) (M775SU)	6-76-M670R-011	
23	ANTENNA VESPA PPA 3G 50MM (M770SU) (M775SU)	6-23-M7770-033	ONLY FOR M770CU

COMBO (M770CU/M775CU)



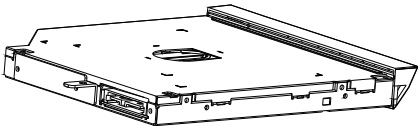
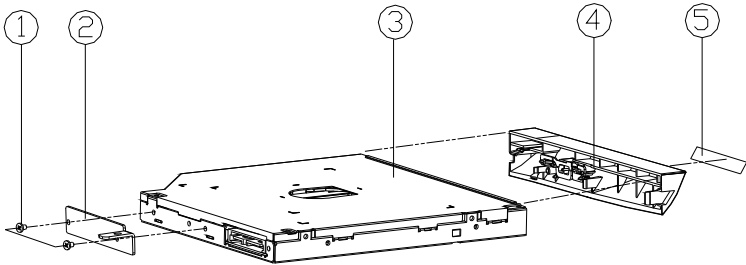
ITEM	PART NAME	PART NO	REMARK
1	CD-ROM TRAY KIT W/ KEY-PAD (M770CU)	6-35-B1120-3RE	
2	CD-ROM BRACKET (M770CU)	6-33-M7452-012-1	
3	CD-ROM DRIVE (M770CU)	6-35-30741X-010	
4	CD-ROM BEZEL MODULE (M770CU)	6-42-M7702-101	
5	CD-ROM BEZEL LABEL (M770CU)	6-45-M7702-010	

Figure A - 7  
COMBO  
(M770CU/M775CU)

Part Lists

DVD-Dual Drive (M770CU/M775CU)

Figure A - 8  
DVD-Dual Drive  
(M770CU/M775CU)



ITEM	PART NAME	PART NO	REMARK
1	SCREW NIXOL KI NI ICT GY-PATCH	6-35-B1120-3RE	
2	CD ROM BRACKET SECC	6-33-M74SZ-012-1	
3	ODD BEZEL MODULE M770SU	6-85-A0724-T03	
3	ODD BEZEL MODULE M770SU	6-85-A0724-S01	
4	ODD BEZEL MODULE M770SU	6-42-M770Z-101	
5	ODD BEZEL LABEL/SUPER MULTI M760S	6-45-M76SZ-011-1	

Top with Fingerprint (W760CU)

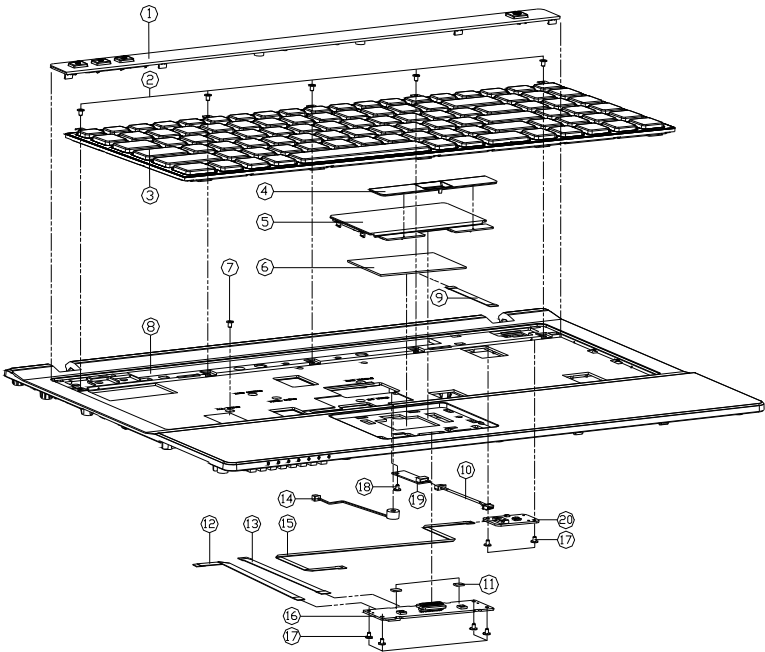


Figure A - 9  
Top with  
Fingerprint  
(W760CU)

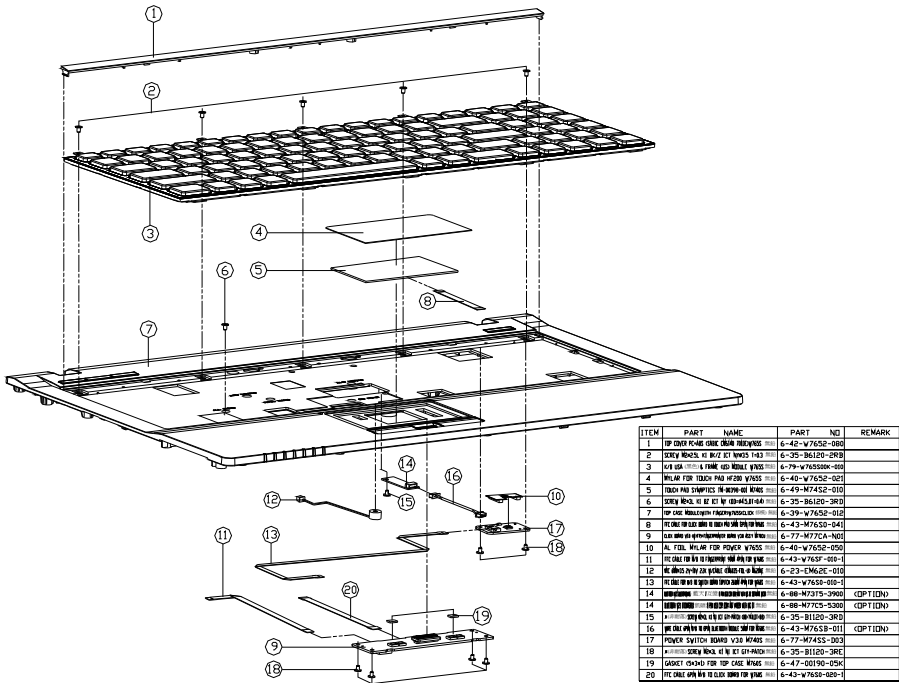
ITEM	PART NAME	PART NO.	REMARK
1	TOP COVER MODULE W760S	6-42-W7652-000	
2	DISPLAY MODULE W760S	6-25-B6120-000	
3	KEYBOARD MODULE W760S	6-79-W76500K-000	
4	CLAY MATRIX COVER W760S	6-42-W7652-700	
5	CLAY MATRIX COVER W760S	6-42-W7652-001	
6	CLAY MATRIX COVER W760S	6-49-W7652-000	
7	CLAY MATRIX COVER W760S	6-35-B6120-000	
8	TOP CASE MODULE W760S	6-39-W7652-014	
9	TOP CASE MODULE W760S	6-39-W7652-013	
10	TOP CASE MODULE W760S	6-43-W7652-041	
11	TOP CASE MODULE W760S	6-43-W7652-011	(OPTION)
12	CLAY MATRIX COVER W760S	6-47-00190-05K	
13	CLAY MATRIX COVER W760S	6-43-W7652-010	
14	CLAY MATRIX COVER W760S	6-43-W7652-000	
15	CLAY MATRIX COVER W760S	6-23-EM62E-010	
16	CLAY MATRIX COVER W760S	6-43-W7652-010	
17	CLAY MATRIX COVER W760S	6-77-W7652-000	
18	CLAY MATRIX COVER W760S	6-35-B6120-000	
19	CLAY MATRIX COVER W760S	6-88-W7652-000	(OPTION)
20	CLAY MATRIX COVER W760S	6-88-W7652-000	(OPTION)

A.Part Lists

Part Lists

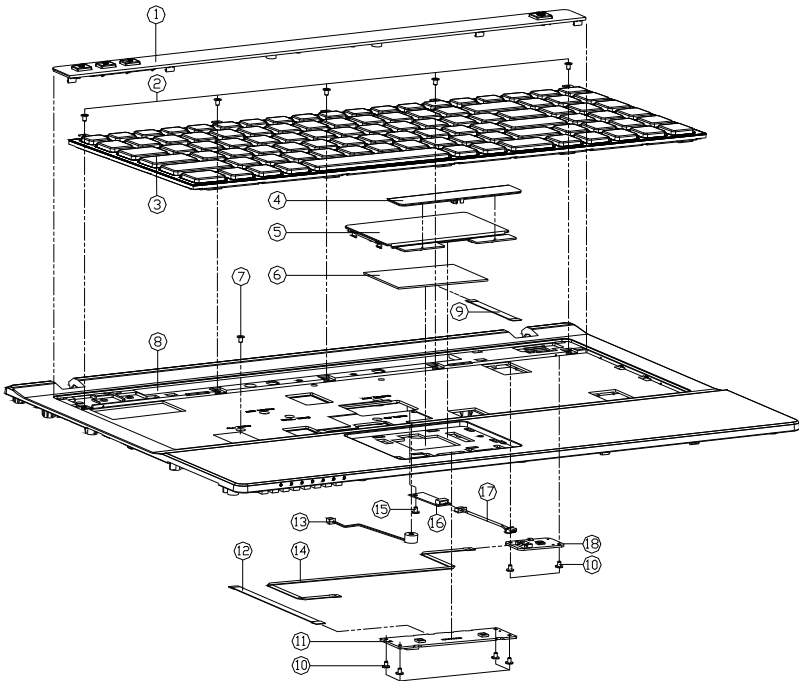
Top with Fingerprint (W765CU)

Figure A - 10  
Top with  
Fingerprint  
(W765CU)





## Top without Fingerprint (W760CU)

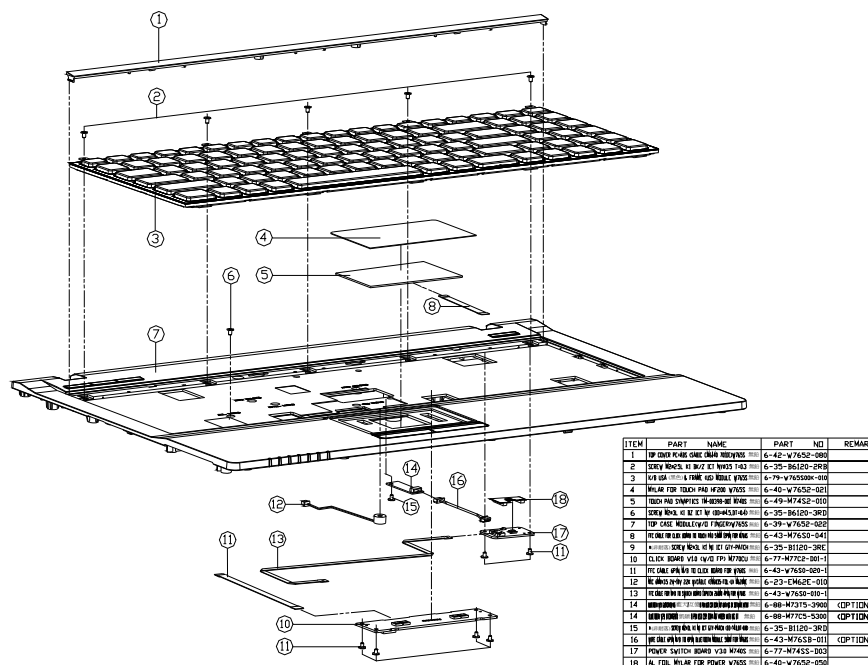


*Figure A - 11*  
**Top without  
Fingerprint  
(W760CU)**

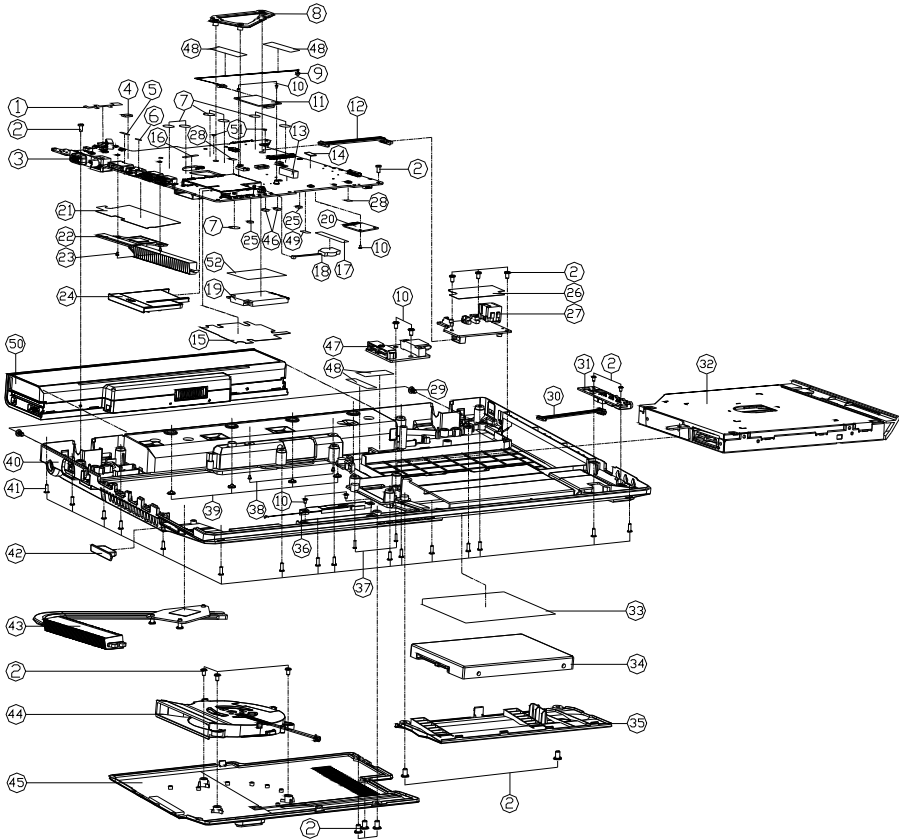
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## Top without Fingerprint (W765CU)

*Figure A - 12*  
**Top without  
Fingerprint  
(W765CU)**



## Bottom (W760CU/W765CU)

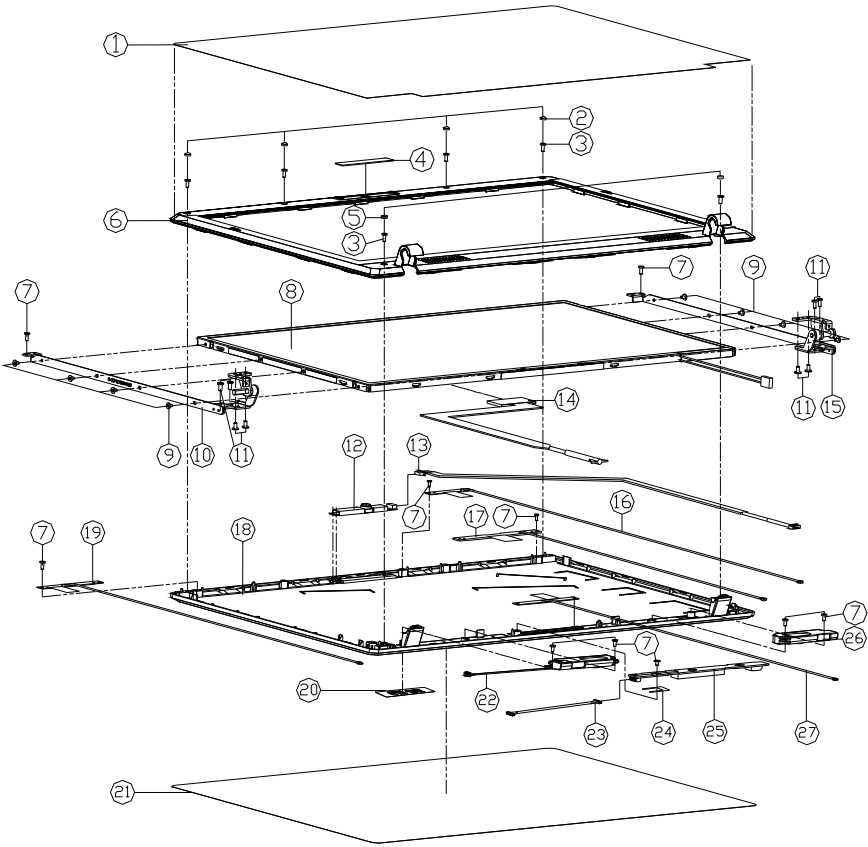


ITEM	PART NAME	PART NO	REMARK
1	HEAT RDR FOR CPU HEAD/DRIVE UNIT	6-40-W7475-021	
2	SCREW 5X20PUL IN. BZ/2 INCT NY-10	6-25-36126S-36A	
3	SCREW 5X20PUL IN. BZ/2 INCT NY-10	6-27-7660S-003-10	
4	SCREW 5X20PUL IN. BZ/2 INCT NY-10	6-27-7660S-003-10	
5	MD TOP RUBBER SILICONE W74071	6-47-W7475-030	
6	CLAMP/HEAD/DRIVE UNIT FOR CPU HEAD/DRIVE UNIT	6-47-W7475-010	
7	CLAMP/HEAD/DRIVE UNIT FOR CPU HEAD/DRIVE UNIT	6-47-W7475-020	
8	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
9	SUPPORT BRACKET SCREW 5X20PUL IN. BZ/2 INCT NY-10	6-25-36126S-36A	
10	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
11	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
12	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
13	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
14	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
15	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
16	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
17	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
18	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
19	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
20	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
21	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
22	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
23	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
24	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
25	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
26	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
27	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
28	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
29	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
30	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
31	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
32	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
33	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
34	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
35	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
36	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
37	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
38	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
39	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
40	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
41	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
42	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
43	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
44	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
45	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
46	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
47	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
48	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
49	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
50	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
51	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
52	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
53	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
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55	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
56	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
57	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
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61	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
62	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
63	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
64	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
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66	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
67	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
68	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
69	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
70	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
71	NYLON DOWEL FR363 W7605S	6-40-W7650-010	
72	NYLON DOWEL FR363 W7605S	6-40-W7650-010	

*Figure A - 13*  
**Bottom**  
**(W760CU/  
W765CU)**

LCD (W760CU/W765CU)

Figure A - 14  
LCD  
(W760CU/  
W765CU)



ITEM	PART NAME	PART NO	REMARK
1	LCD PROTECT FILM (PET) (0.1mm) (W760CU)	6-40-W7651-041	
2	LCD FRONT COVER (PC) (0.5mm) (W760CU)	6-47-W7651-050	
3	SCREW (M2.0X0.5) (0.5mm) (W760CU)	6-35-B6120-580	
4	LCD LINES (PANEL) (W760CU)	6-48-W7651-011	W/ CCD
5	LCD LINES (PANEL) (W760CU)	6-48-W7651-020	W/O CCD
6	LCD FRONT COVER MODULE (W760CU)	6-47-W7651-030	
7	LCD FRONT COVER MODULE (W760CU)	6-39-W7651-012	
8	LCD FRONT COVER MODULE (W760CU)	6-35-C1120-480	
9	LCD FRONT COVER MODULE (W760CU)	6-50-LB257-G00	FOR LCD PANEL
10	LCD FRONT COVER MODULE (W760CU)	6-50-LA157-G00	FOR LCD PANEL
11	LCD FRONT COVER MODULE (W760CU)	6-50-LB155-G00	FOR LCD PANEL
12	LCD FRONT COVER MODULE (W760CU)	6-50-LB162-G00	FOR LCD PANEL
13	LCD FRONT COVER MODULE (W760CU)	6-35-B1120-380	FOR LCD PANEL
14	LCD FRONT COVER MODULE (W760CU)	6-33-W7601-030-1	FOR LCD PANEL
15	LCD FRONT COVER MODULE (W760CU)	6-33-W7651-031-1	FOR W765CU
16	SCREW (M2.0X0.5) (0.5mm) (W760CU)	6-35-B6125-S80	
17	LCD FRONT COVER MODULE (W760CU)	6-88-M740C-4922	
18	LCD FRONT COVER MODULE (W760CU)	6-43-M7651-022	
19	LCD FRONT COVER MODULE (W760CU)	6-43-W7651-010	FOR W765CU
20	LCD FRONT COVER MODULE (W760CU)	6-43-W7651-010	FOR W765CU
21	LCD FRONT COVER MODULE (W760CU)	6-33-W7601-021-1	FOR W760CU
22	LCD FRONT COVER MODULE (W760CU)	6-23-W7651-021	OPTIONAL
23	LCD FRONT COVER MODULE (W760CU)	6-23-W7651-022	OPTIONAL
24	LCD FRONT COVER MODULE (W760CU)	6-39-W7651-022	FOR W760CU
25	LCD FRONT COVER MODULE (W760CU)	6-23-W7651-011	FOR W765CU
26	LCD FRONT COVER MODULE (W760CU)	6-23-W7651-010	FOR W765CU
27	LCD FRONT COVER MODULE (W760CU)	6-45-M741S-020	
28	LCD FRONT COVER MODULE (W760CU)	6-40-W7651-052	FOR W760CU
29	LCD FRONT COVER MODULE (W760CU)	6-23-W7651-011	
30	LCD FRONT COVER MODULE (W760CU)	6-43-M74SR-011	ONLY FOR W760CU
31	LCD FRONT COVER MODULE (W760CU)	6-40-W7651-010	ONLY FOR W760CU
32	LCD FRONT COVER MODULE (W760CU)	6-76-M6R6R-010	ONLY FOR W760CU
33	LCD FRONT COVER MODULE (W760CU)	6-23-SM74S-030	
34	LCD FRONT COVER MODULE (W760CU)	6-23-W7651-021	FOR W765CU
35	LCD FRONT COVER MODULE (W760CU)	6-23-W7651-020	OPTIONAL

COMBO (W760CU/W765CU)

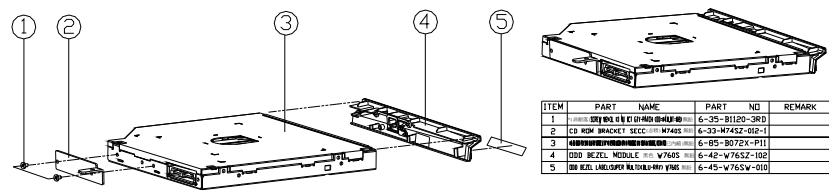
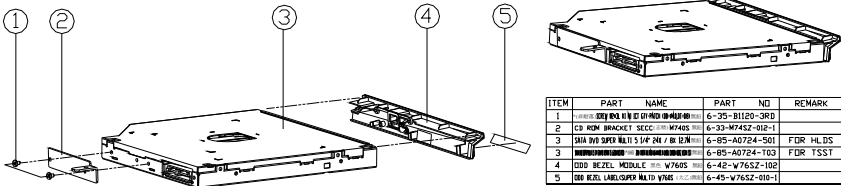


Figure A - 15  
COMBO  
(W760CU/  
W765CU)

Part Lists

DVD-Dual Drive (W760CU/W765CU)

Figure A - 16  
DVD-Dual Drive  
(W760CU/  
W765CU)





# Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the *M770CU/M775CU/W760CU/W765CU* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

*Table B - 1*  
**Schematic  
Diagrams**

Diagram - Page	Diagram - Page	Diagram - Page
<i>System Block Diagram - Page B - 2</i>	<i>IBEXPEAK - M 2/9 - Page B - 22</i>	<i>Power I.IVS_VTT - Page B - 42</i>
<i>Clock Generator - Page B - 3</i>	<i>IBEXPEAK - M 3/9 - Page B - 23</i>	<i>Power VGFX_CORE - Page B - 43</i>
<i>Processor 1/7 - Page B - 4</i>	<i>IBEXPEAK - M 4/9 - Page B - 24</i>	<i>V-Core - Page B - 44</i>
<i>Processor 2/7 - Page B - 5</i>	<i>IBEXPEAK - M 5/9 - Page B - 25</i>	<i>M92 VDDC - Page B - 45</i>
<i>Processor 3/7 - Page B - 6</i>	<i>IBEXPEAK - M 6/9 - Page B - 26</i>	<i>AC-IN, Charger - Page B - 46</i>
<i>Processor 4/7 - Page B - 7</i>	<i>IBEXPEAK - M 7/9 - Page B - 27</i>	<i>HDMI - Page B - 47</i>
<i>Processor 5/7 - Page B - 8</i>	<i>IBEXPEAK - M 8/9 - Page B - 28</i>	<i>Audio Board - Page B - 48</i>
<i>Processor 6/7 - Page B - 9</i>	<i>IBEXPEAK - M 9/9 - Page B - 29</i>	<i>Finger Sensor Board TCS4X - Page B - 49</i>
<i>Processor 7/7 - Page B - 10</i>	<i>New Card, Mini PCIE - Page B - 30</i>	<i>Power Switch Board for M74 - Page B - 50</i>
<i>DDRIII SO-DIMM_0 - Page B - 11</i>	<i>3G, TPM - Page B - 31</i>	<i>Finger Board for M74 - Page B - 51</i>
<i>DDRIII SO-DIMM_1 - Page B - 12</i>	<i>USB, Fan, TP, FP, Multi Con - Page B - 32</i>	<i>Power Switch Board for M76 - Page B - 52</i>
<i>Panel, Inverter, CRT - Page B - 13</i>	<i>Card Reader (JMC251) - Page B - 33</i>	<i>External ODD Board for W76 - Page B - 53</i>
<i>M92 S2 PCIE Interface - Page B - 14</i>	<i>SATA ODD, LED, Hotkey, LID, SW - Page B - 34</i>	<i>ODD Board for M760T - Page B - 54</i>
<i>M92 S2 Main Generic - Page B - 15</i>	<i>LAN, Modem - Page B - 35</i>	<i>Click Finger Board for M77 - Page B - 55</i>
<i>M92 S2 DP Power - Page B - 16</i>	<i>Audio Codec ALC272 - Page B - 36</i>	<i>Multi Function Board - Page B - 56</i>
<i>M92 S2 Power - Page B - 17</i>	<i>KBC-ITE IT8502E - Page B - 37</i>	
<i>M92 S2 MEM Interface - Page B - 18</i>	<i>SVS, 3VS, 3.3VM, 1.05VS, VIN1 - Page B - 38</i>	
<i>M92 S2 DDR2 Memory - Page B - 19</i>	<i>Power 3.3V/5V - Page B - 39</i>	
<i>M92 S2 LVDS &amp; Straps - Page B - 20</i>	<i>Power 1.8V - Page B - 40</i>	
<i>IBEXPEAK - M 1/9 - Page B - 21</i>	<i>Power 1.5V/0.75V - Page B - 41</i>	

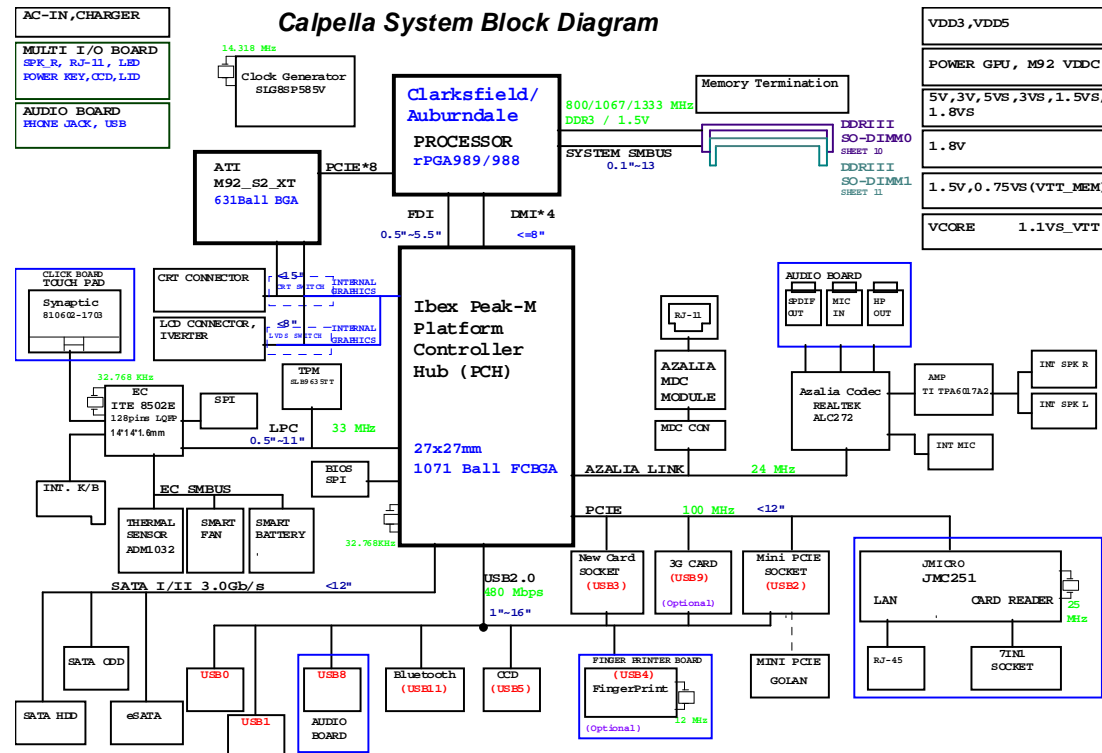


## Version Note

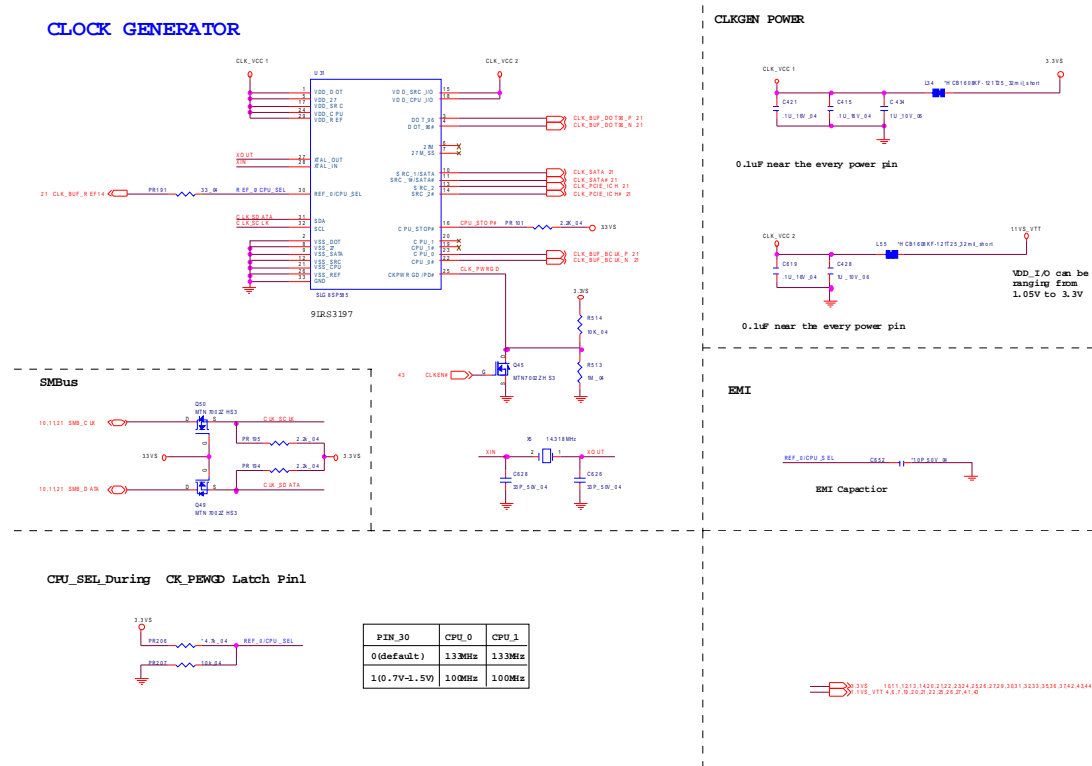
The schematic diagrams in this chapter are based upon version 6-7P-M77CA-005. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

# System Block Diagram

Sheet 1 of 55  
System Block  
Diagram



# Clock Generator

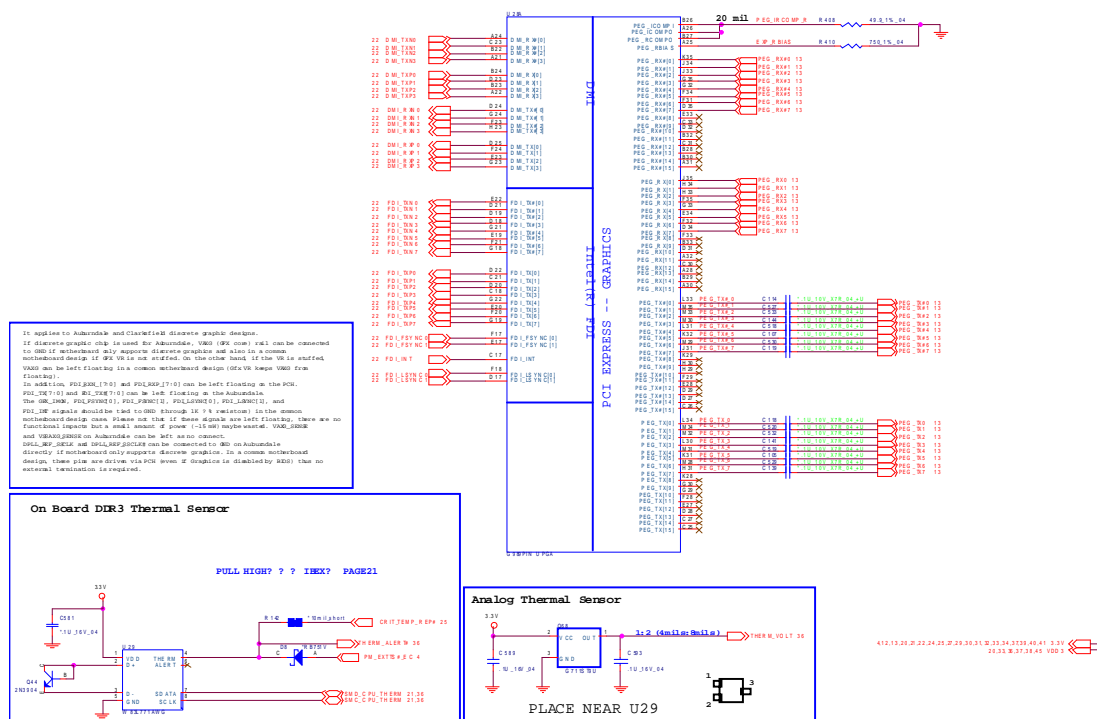


Sheet 2 of 55  
Clock Generator

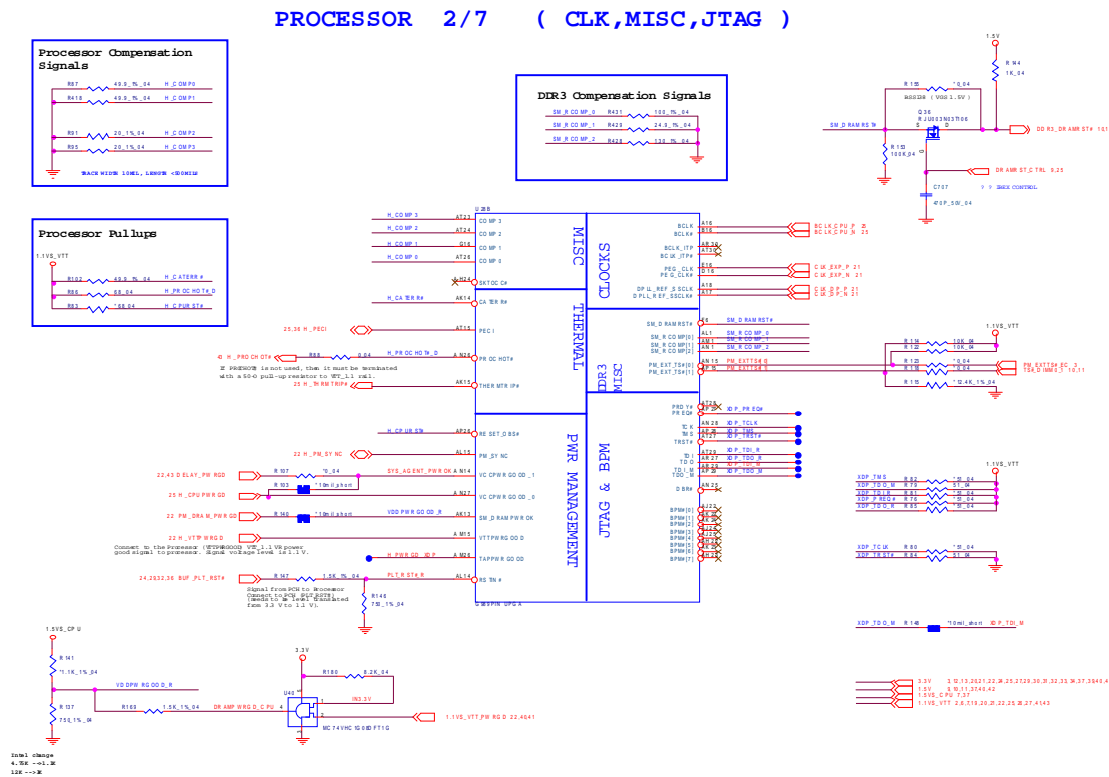
## Processor 1/7

Sheet 3 of 55  
Processor 1/7

PROCESSOR 1/7 (DMI,PEG,FDI)



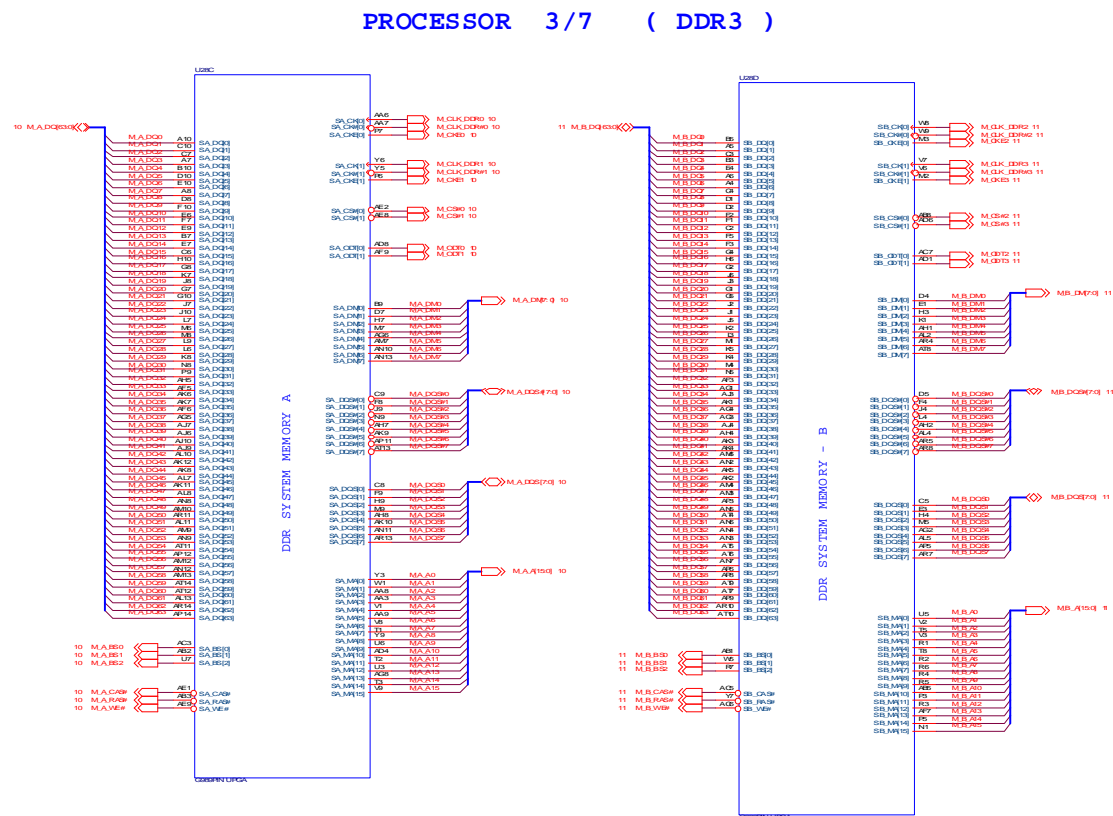
**Processor 2/7 B - 5**



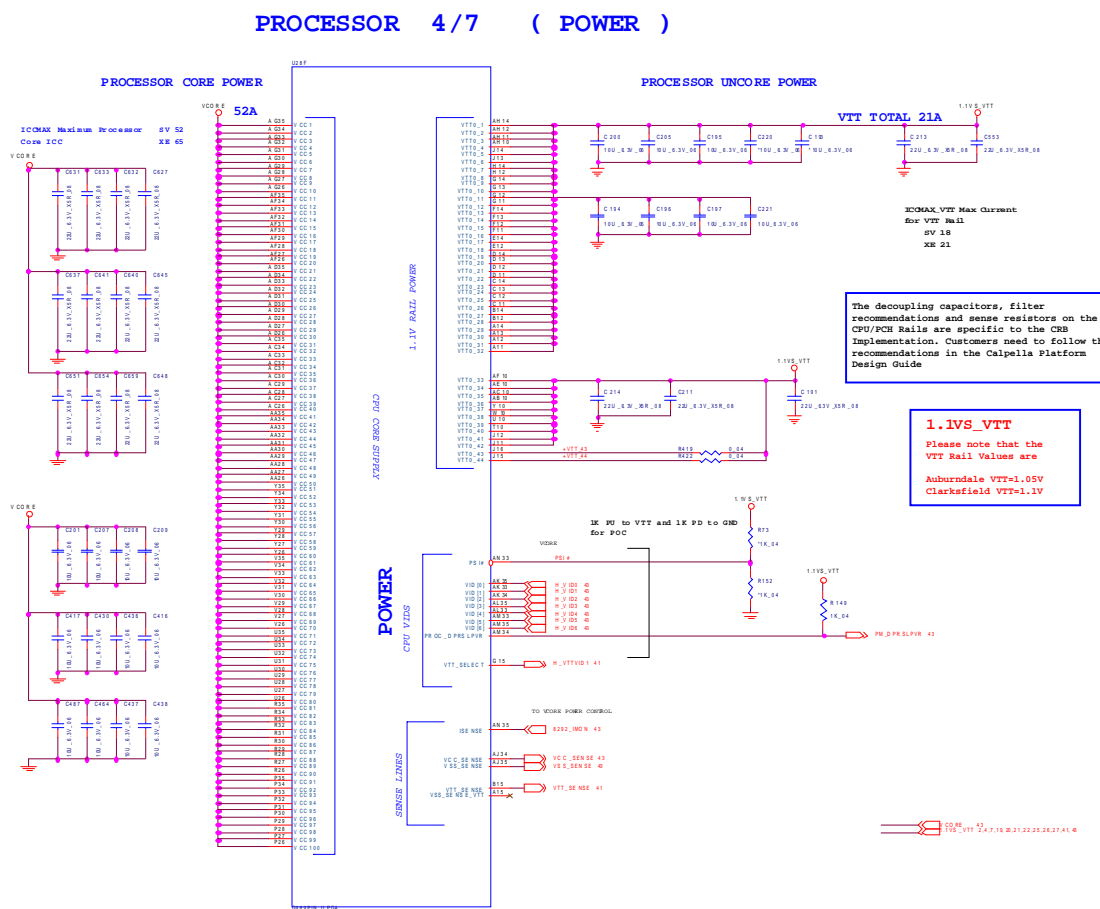
## Processor 3/7

## B.Schematic Diagrams

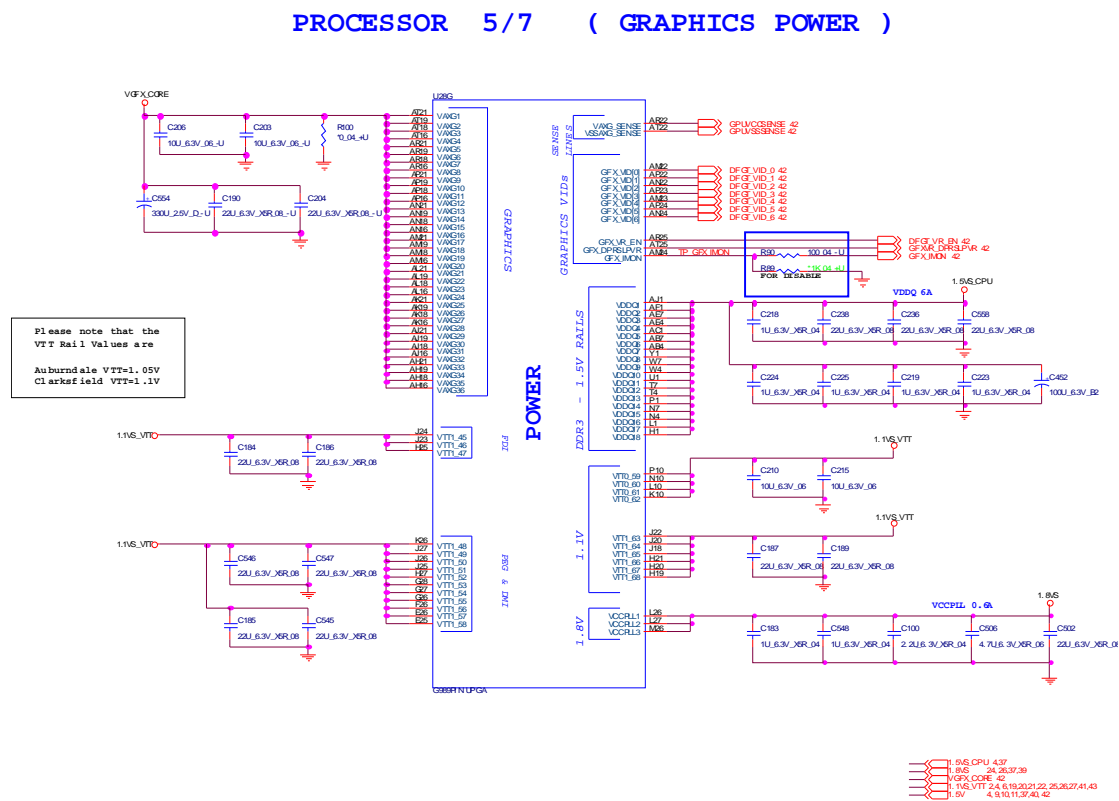
Sheet 5 of 55  
Processor 3/7



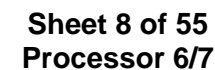




Sheet 7 of 55  
Processor 5/7



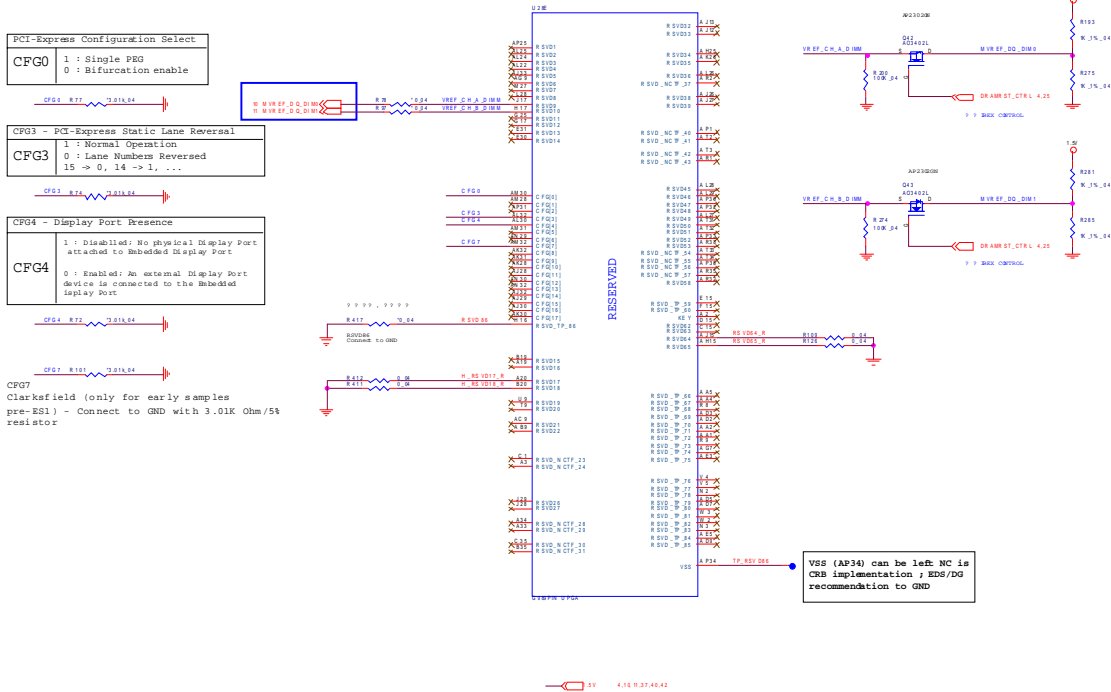
**Processor 6/7 B - 9**

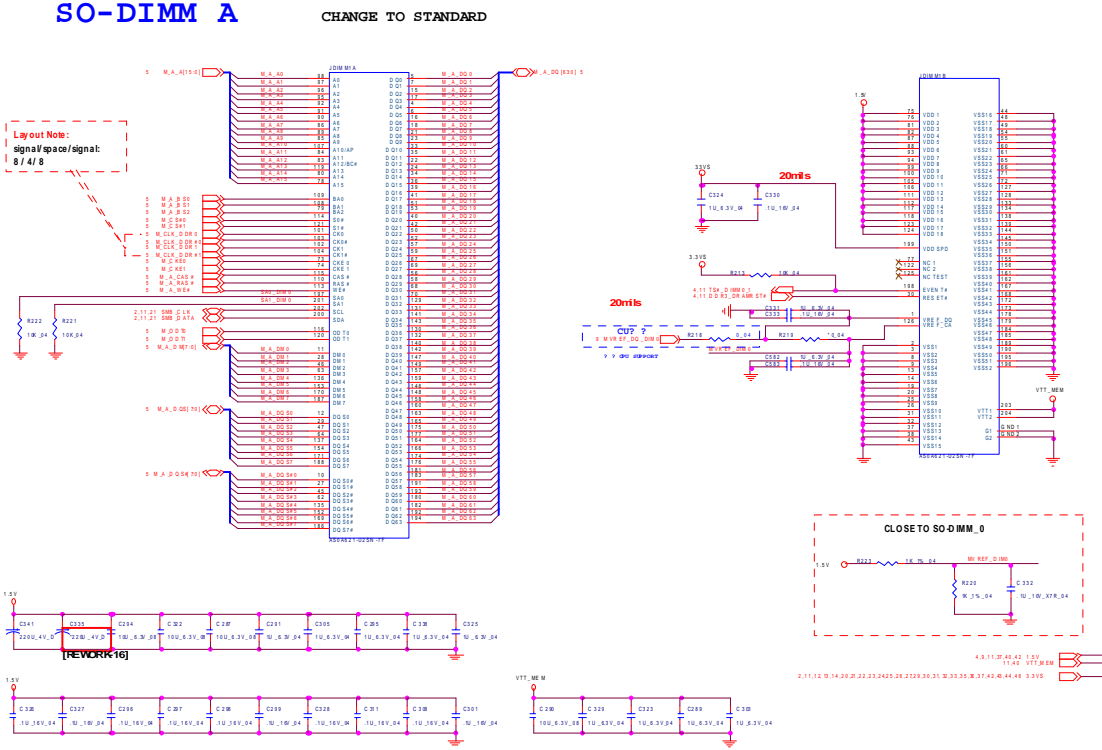


Schematic Diagrams

Processor 7/7

Sheet 9 of 55  
Processor 7/7





## DDRIII SO-DIMM\_0

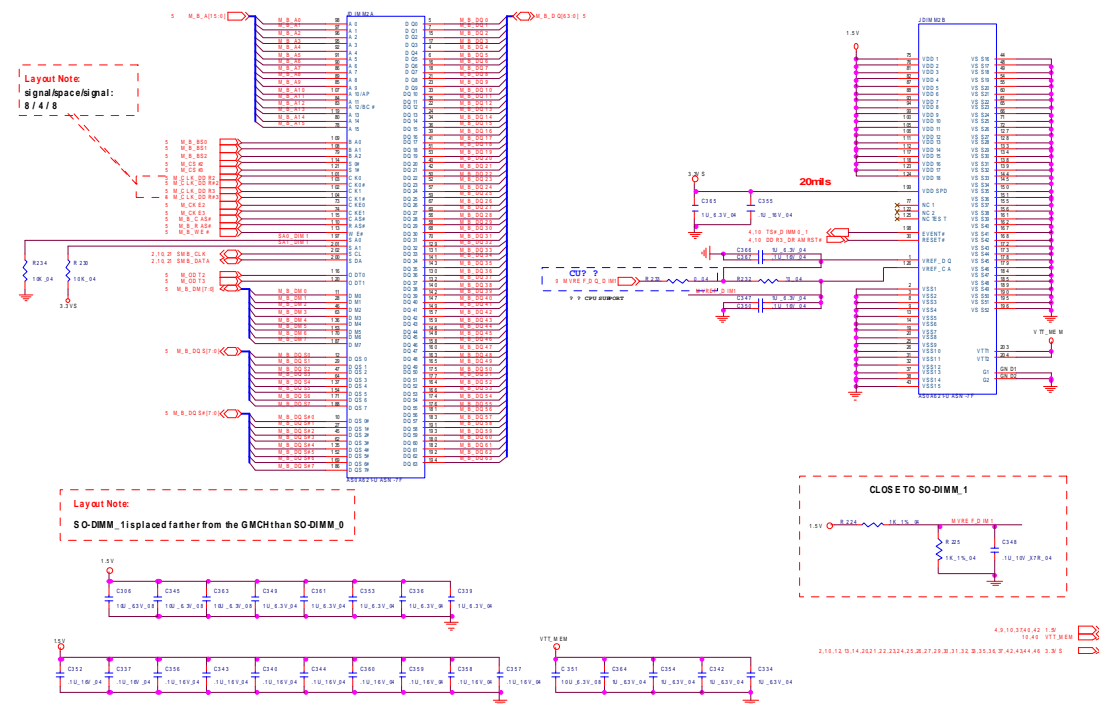
## Schematic Diagrams

## DDRIII SO-DIMM\_1

Sheet 11 of 55  
DDRIII SO-DIMM\_1

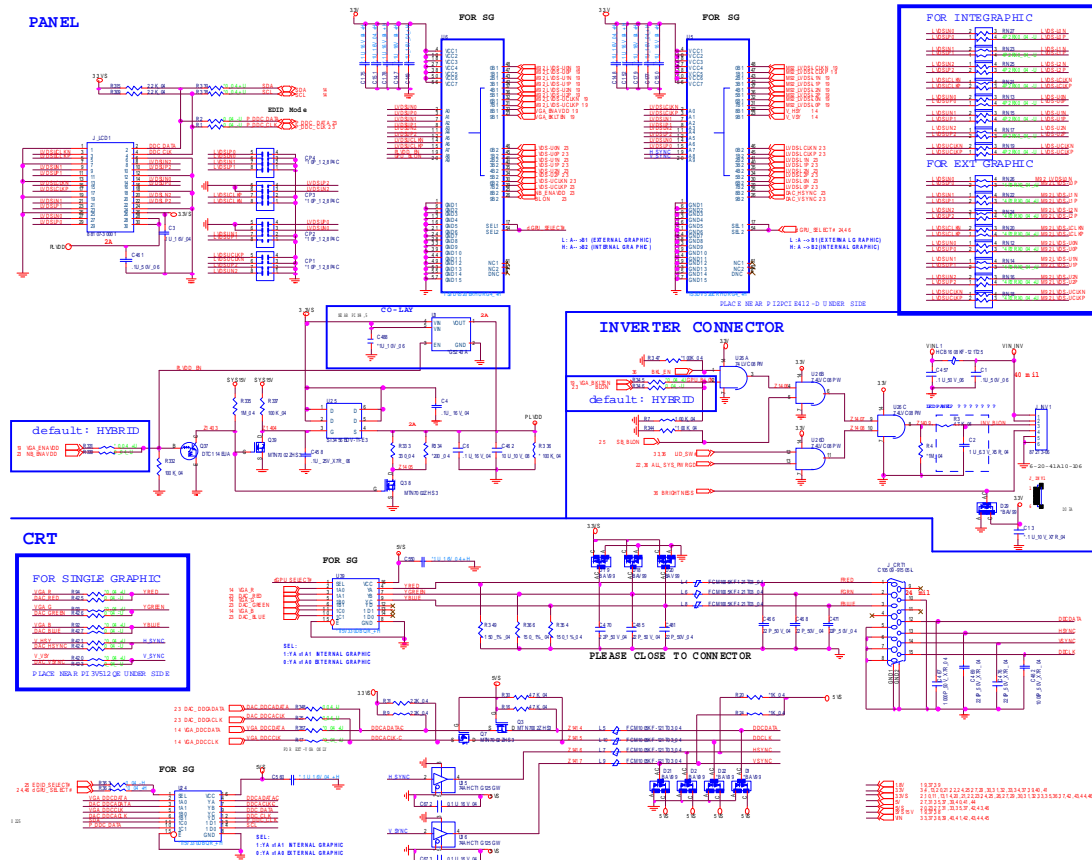
## SO-DIMM B

CHANGE TO STANDARD



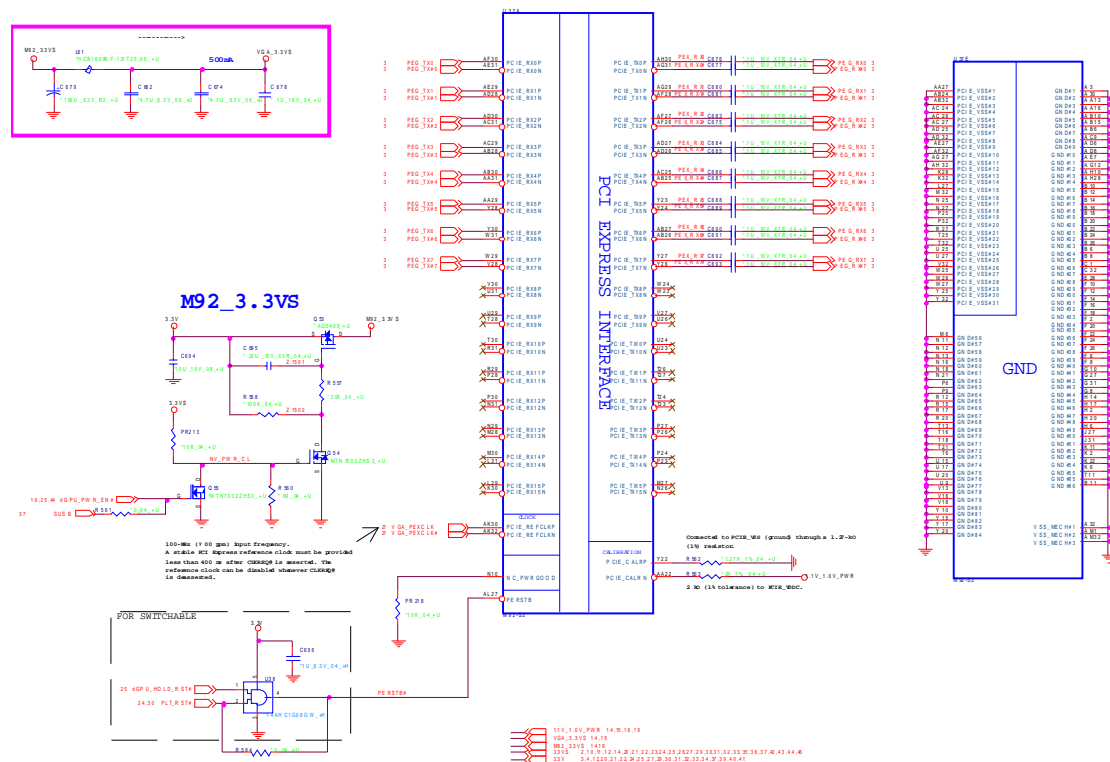


# Panel, Inverter, CRT

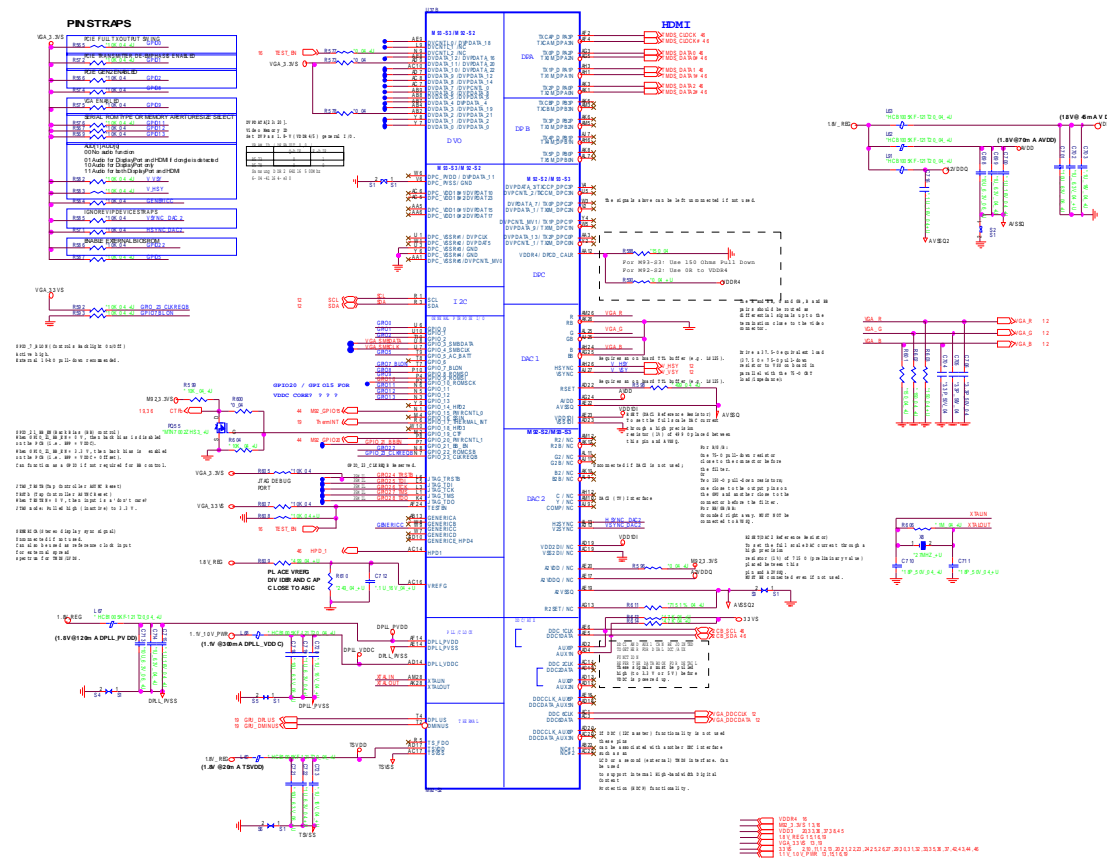


Sheet 12 of 55  
Panel, Inverter,  
CRT

**Sheet 13 of 55**  
**M92 S2 PCIE**  
**Interface**



## M92 S2 Main Generic

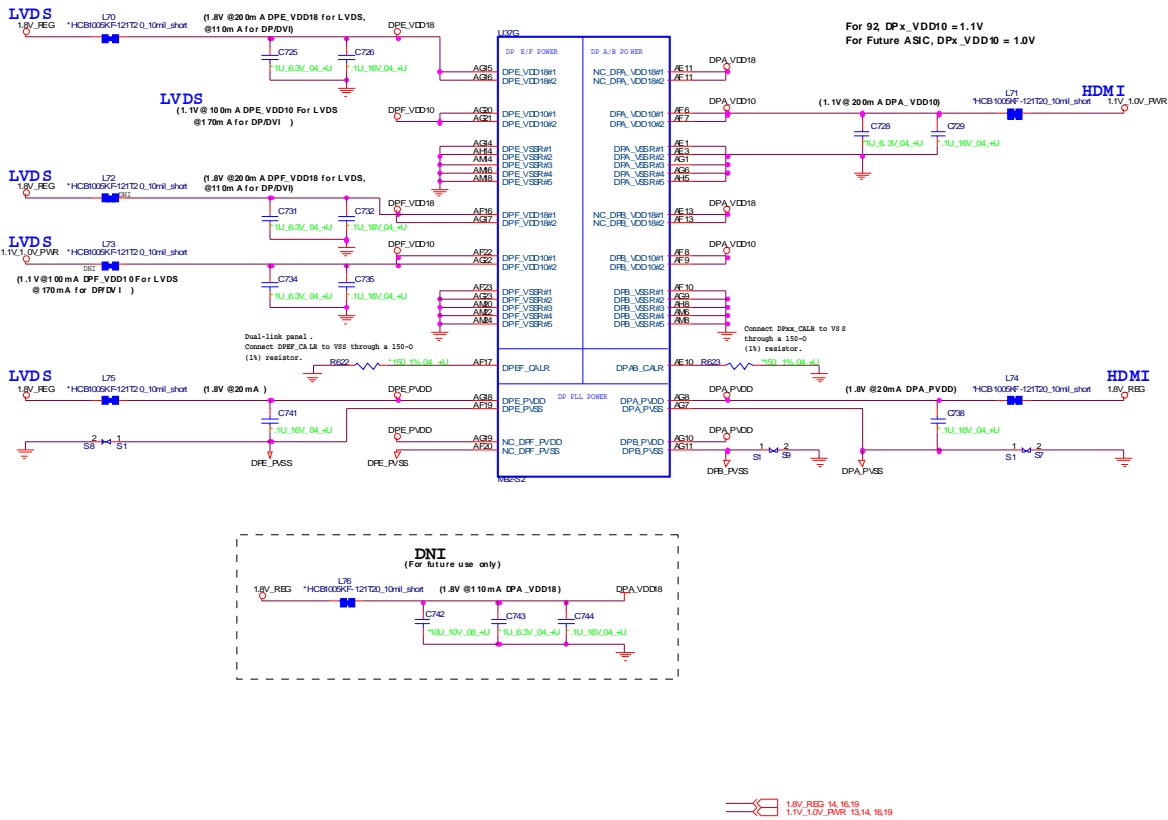


Sheet 14 of 55  
M92 S2 Main  
Generic

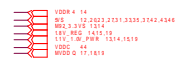
Schematic Diagrams

M92 S2 DP Power

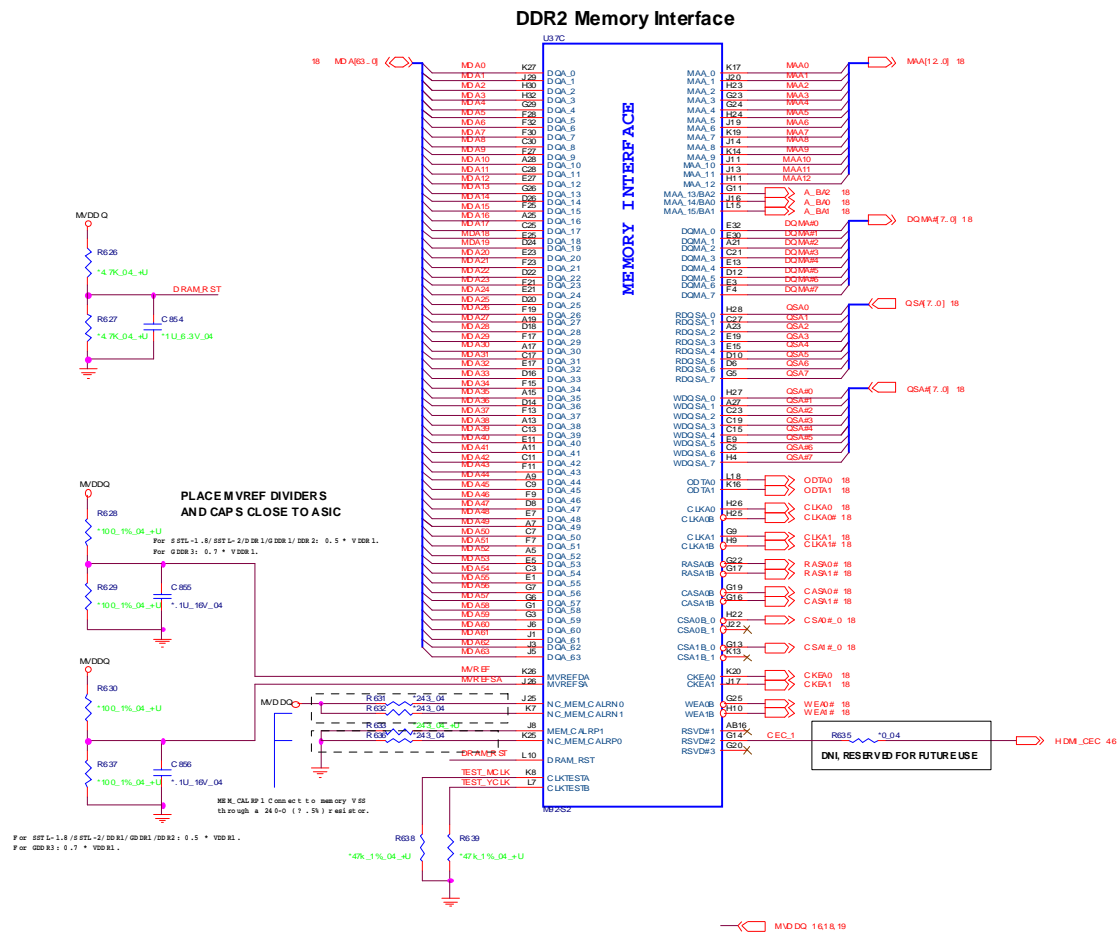
Sheet 15 of 55  
M92 S2 DP Power



## B.Schematic Diagrams

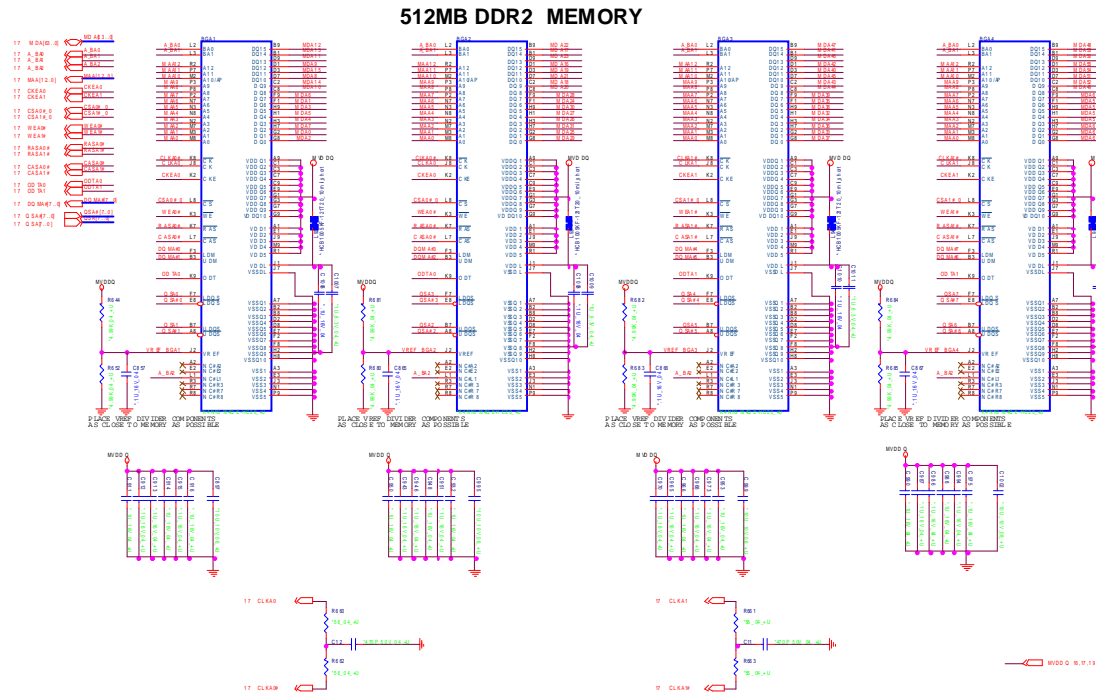


Sheet 17 of 55  
M92 S2 MEM  
Interface





# M92 S2 DDR2 Memory



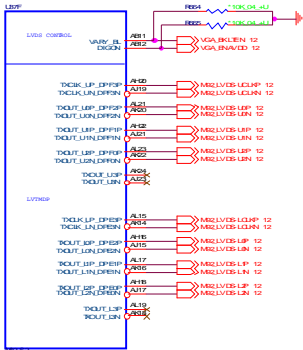
Sheet 18 of 55  
M92 S2 DDR2  
Memory

Schematic Diagrams

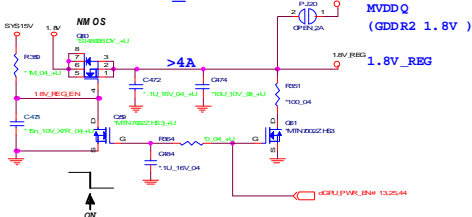
M92 S2 LVDS & Straps

Sheet 19 of 55  
M92 S2 LVDS & Straps

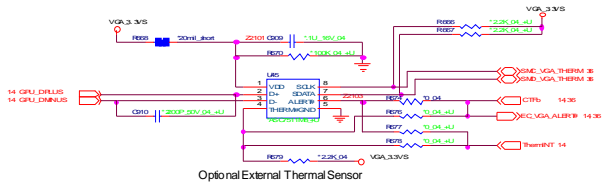
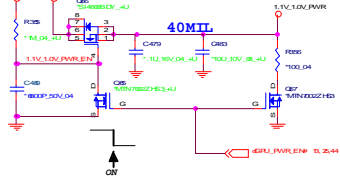
LVDS Interface



1.8V TO 1.8V\_REG



1.1V 1.0V\_PWR



AMD RESERVED CONFIGURATION STRAPS  
ALLOW FOR PULLUP PADS FOR THESE STRAPS AND IF THESE GPIOs ARE USED,  
THEY MUST NOT CONFLICT DURING RESET

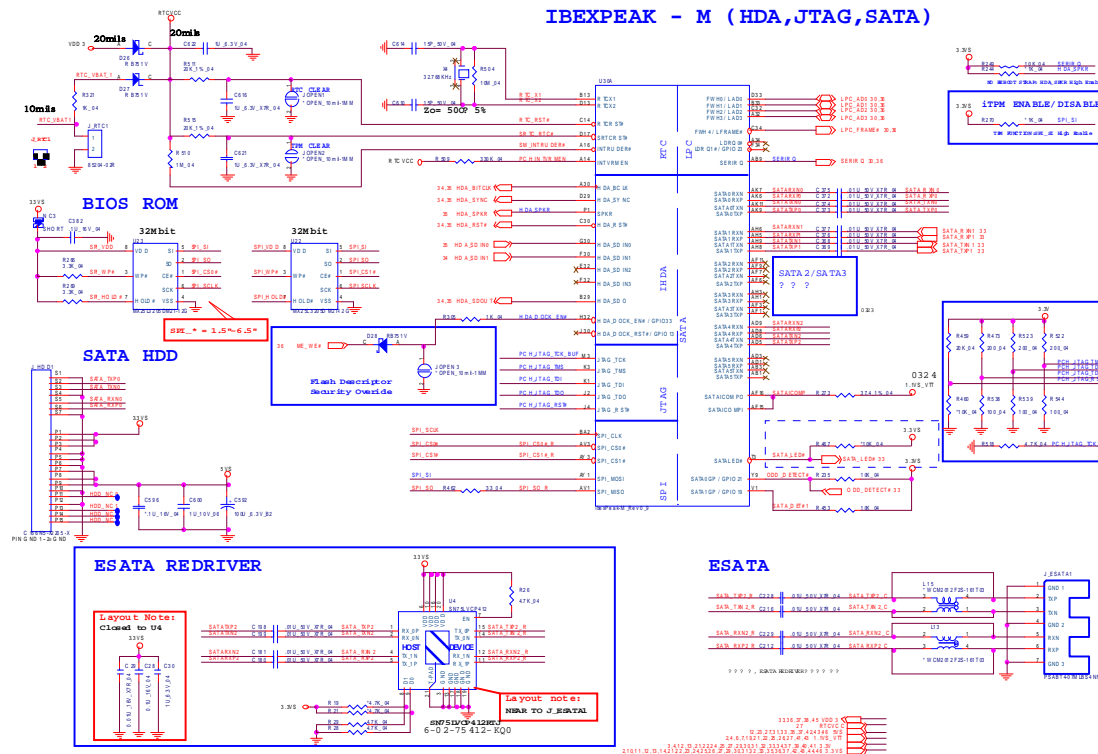
HOST#NC GEN#N/A

PULLUP PADS ARE NOT REQUIRED FOR THESE STRAPS BUT IF THESE GPIOs ARE USED,  
THEY MUST NOT CONFLICT DURING RESET

CIRCUIT#\_PWR\_14

- 1.1V 1.0V\_PWR 13,14,15,16
- 1.1V VTT 2,4,6,7,20,21,22,23,26,27,41,43
- 1.1V VTT 12,17,18
- 1.1V VTT 37,38
- 1.1V VTT 44,45,46
- 1.1V VTT 10,11,12,13
- 1.1V VTT 13,14

## IBEXPEAK - M 1/9

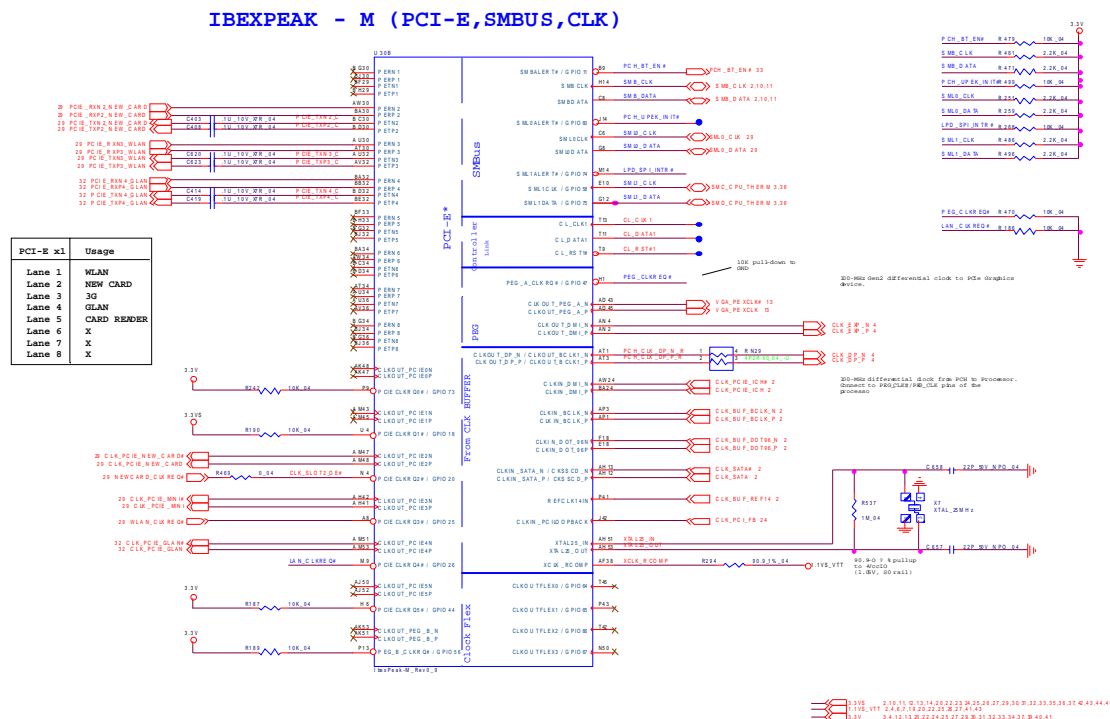


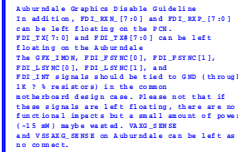
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IBEXPEAK - M 1/9

## IBEXPEAK - M 2/9

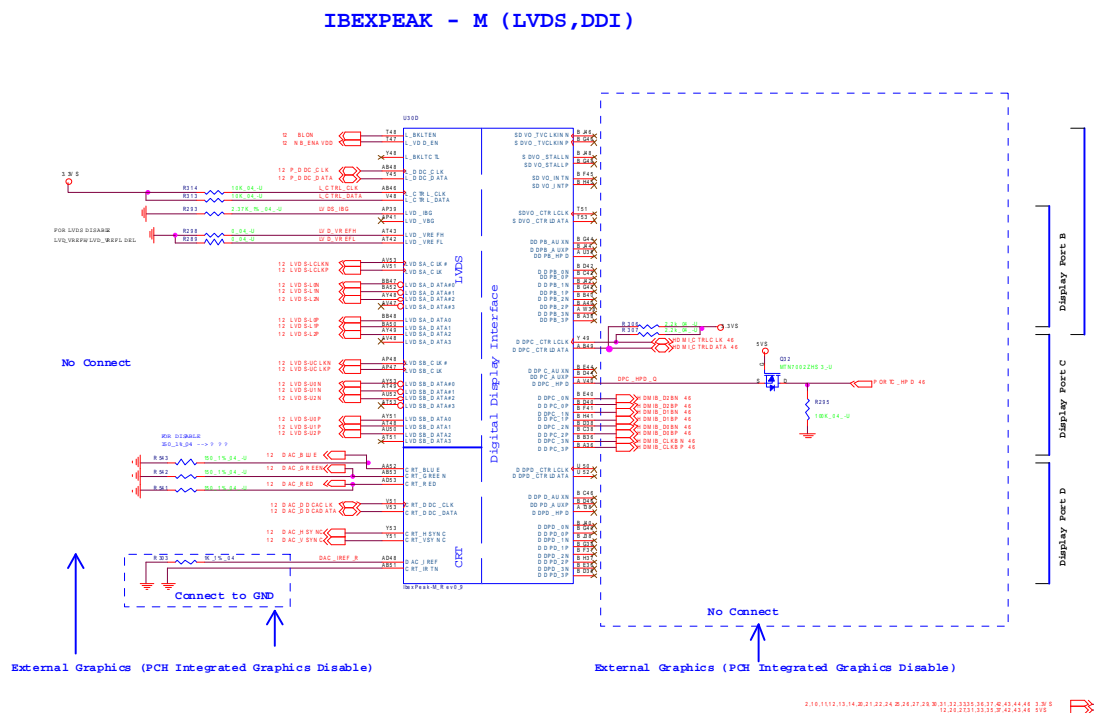
## B.Schematic Diagrams

Sheet 21 of 55  
IBEXPEAK - M 2/9

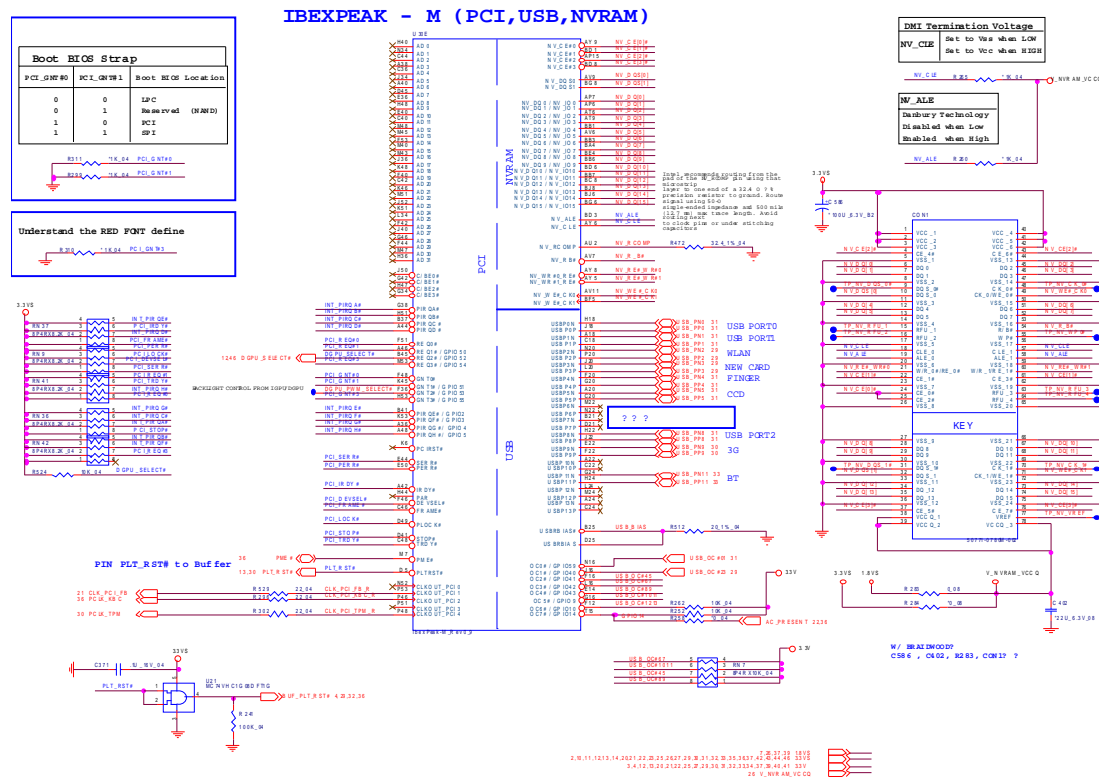




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IBEXPEAK - M 4/9







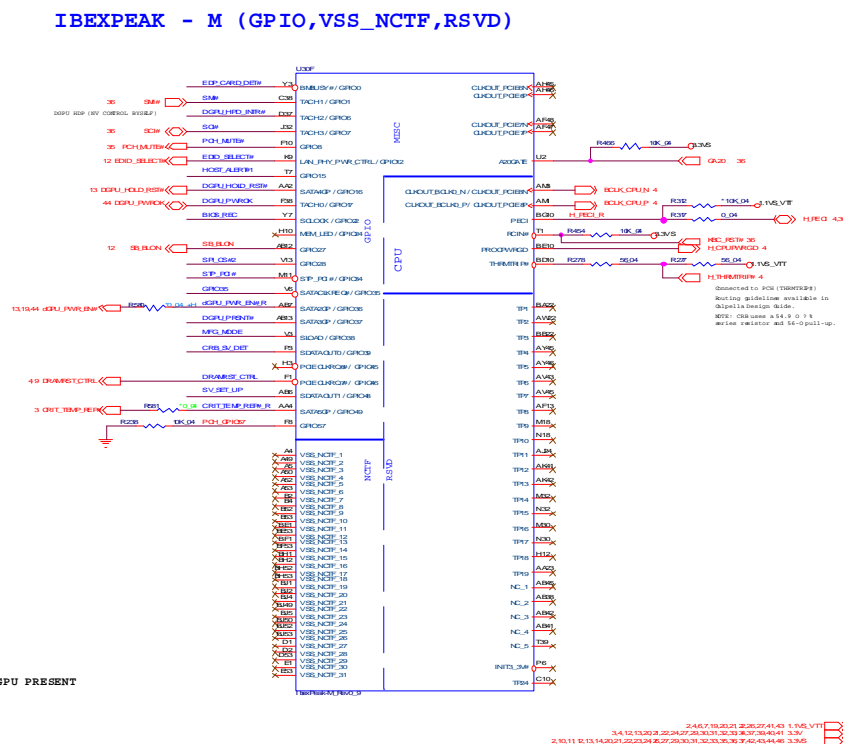
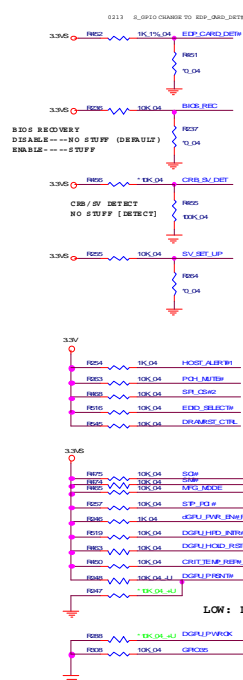
Sheet 24 of 55  
IBEXPEAK - M 5/9

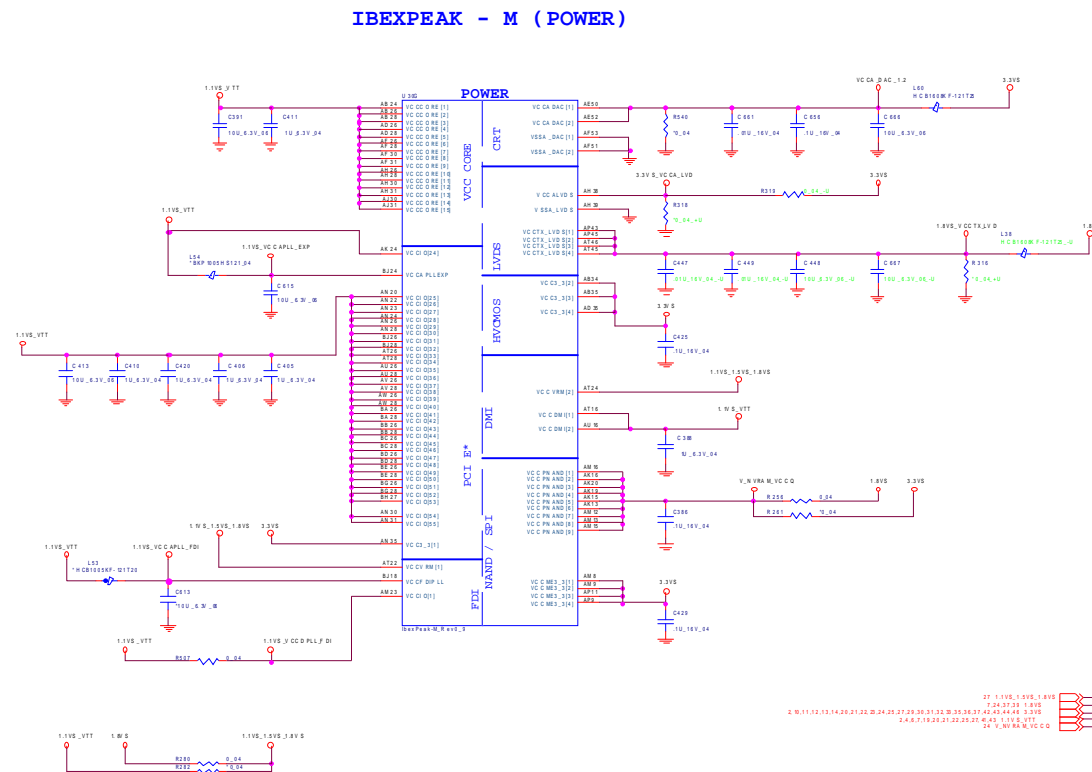
## B.Schematic Diagrams

## IBEXPEAK - M 6/9

## B.Schematic Diagrams

Sheet 25 of 55  
IBEXPEAK - M 6/9



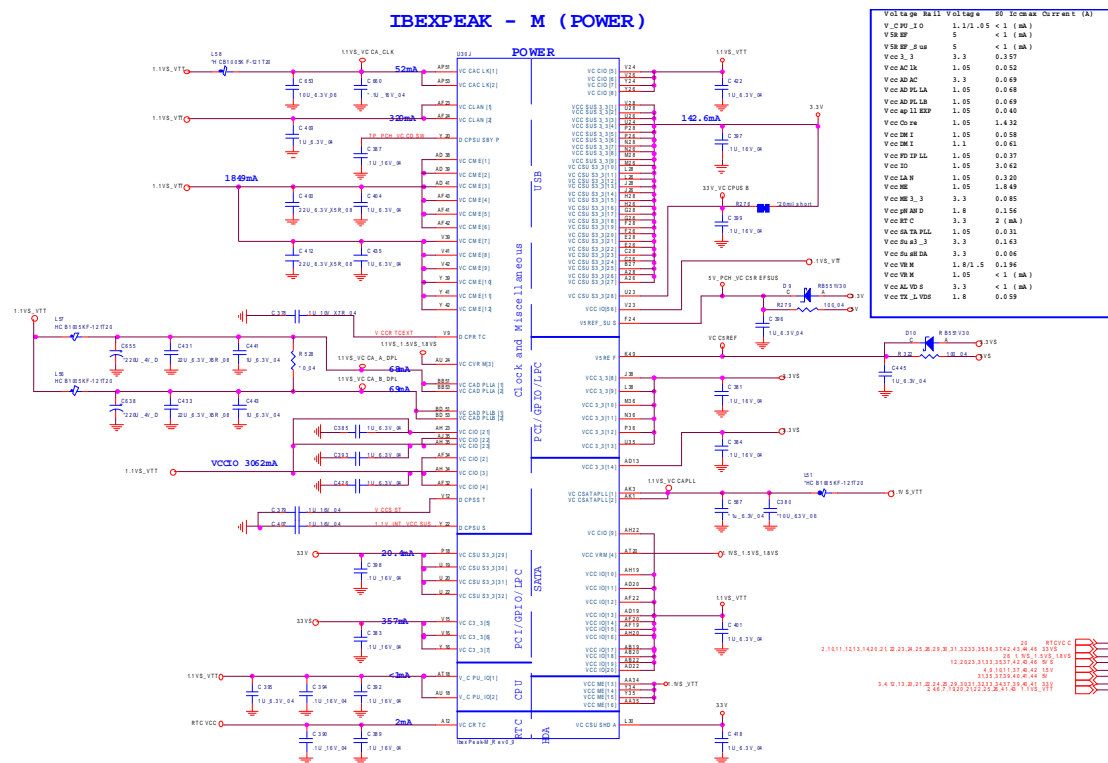


Sheet 26 of 55  
IBEXPEAK - M 7/9

## IBEXPEAK - M 8/9

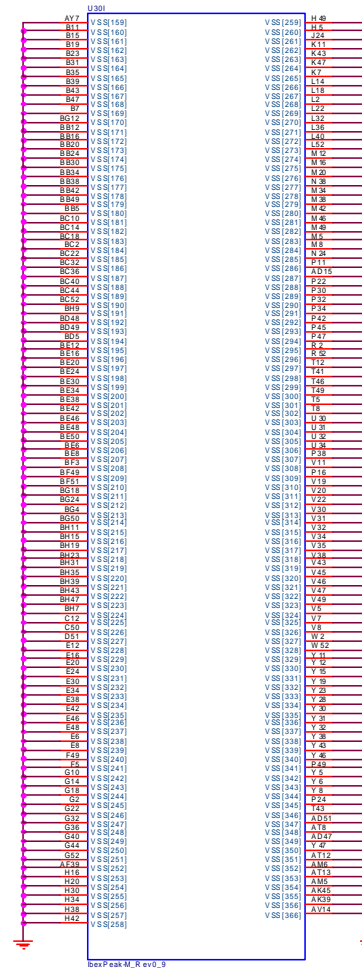
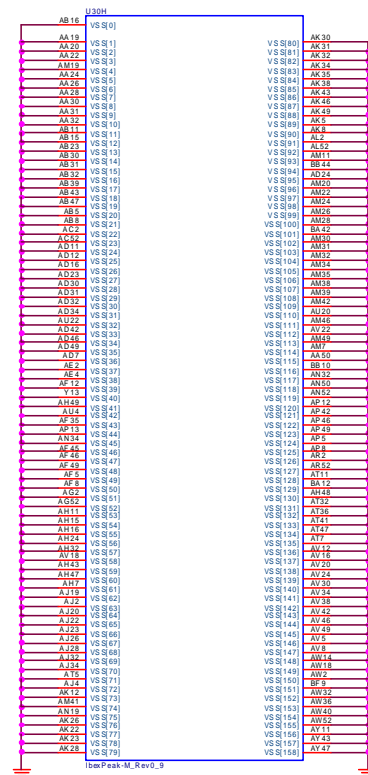
## B.Schematic Diagrams

Sheet 27 of 55  
IBEXPEAK - M 8/9



## IBEXPEAK - M 9/9

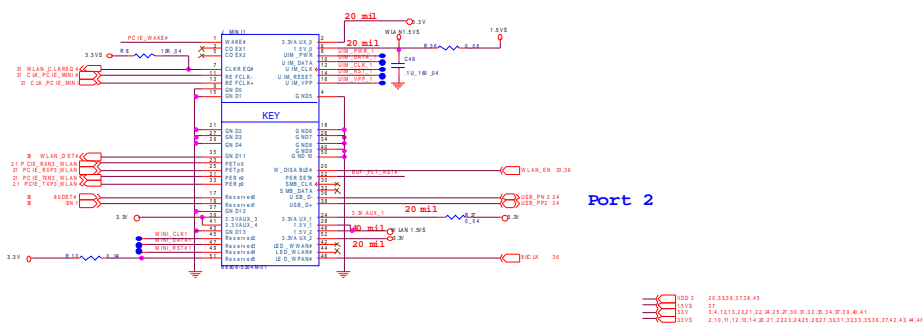
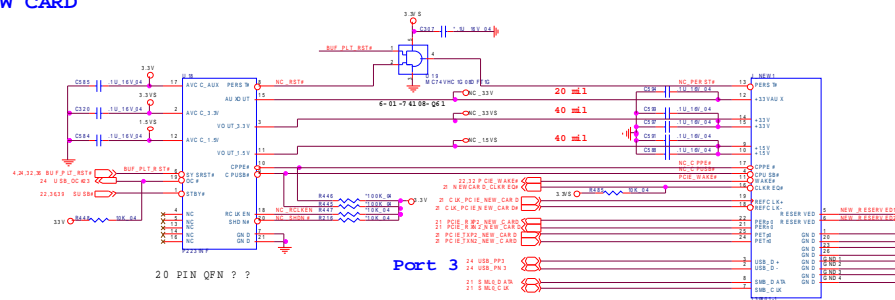
## IBEXPEAK - M (GND)



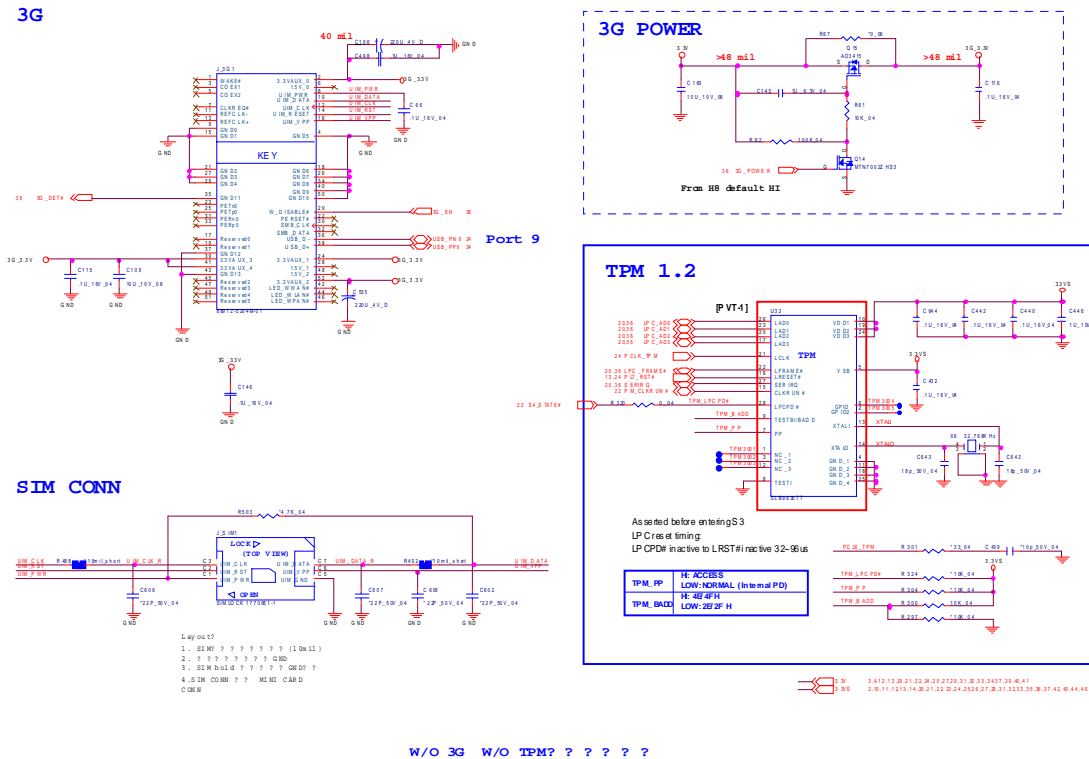
Sheet 28 of 55  
IBEXPEAK - M 9/9

## B.Schematic Diagrams

**Sheet 29 of 55**  
**New Card, Mini**  
**PCIE**



# 3G, TPM

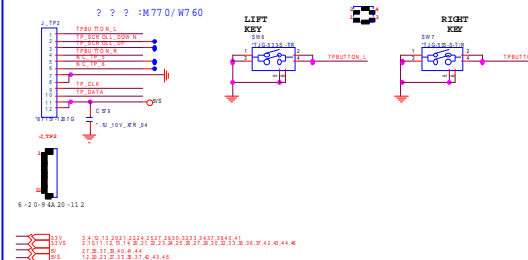
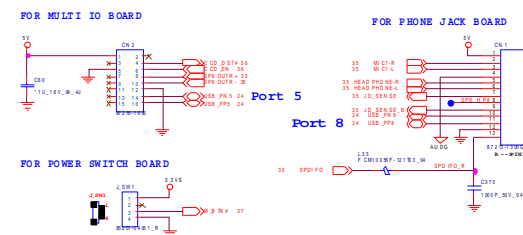
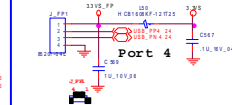
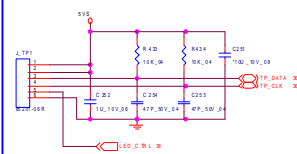
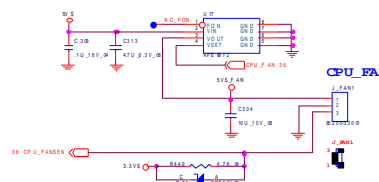
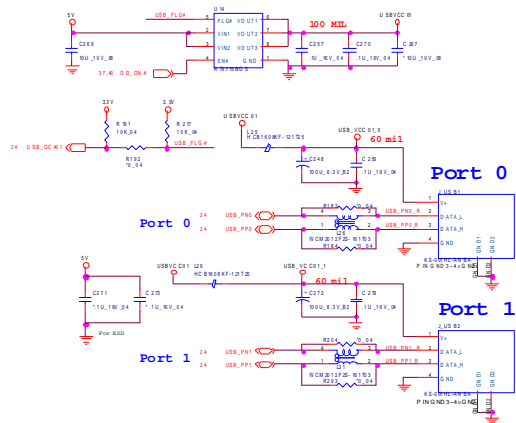


Sheet 30 of 55  
3G, TPM

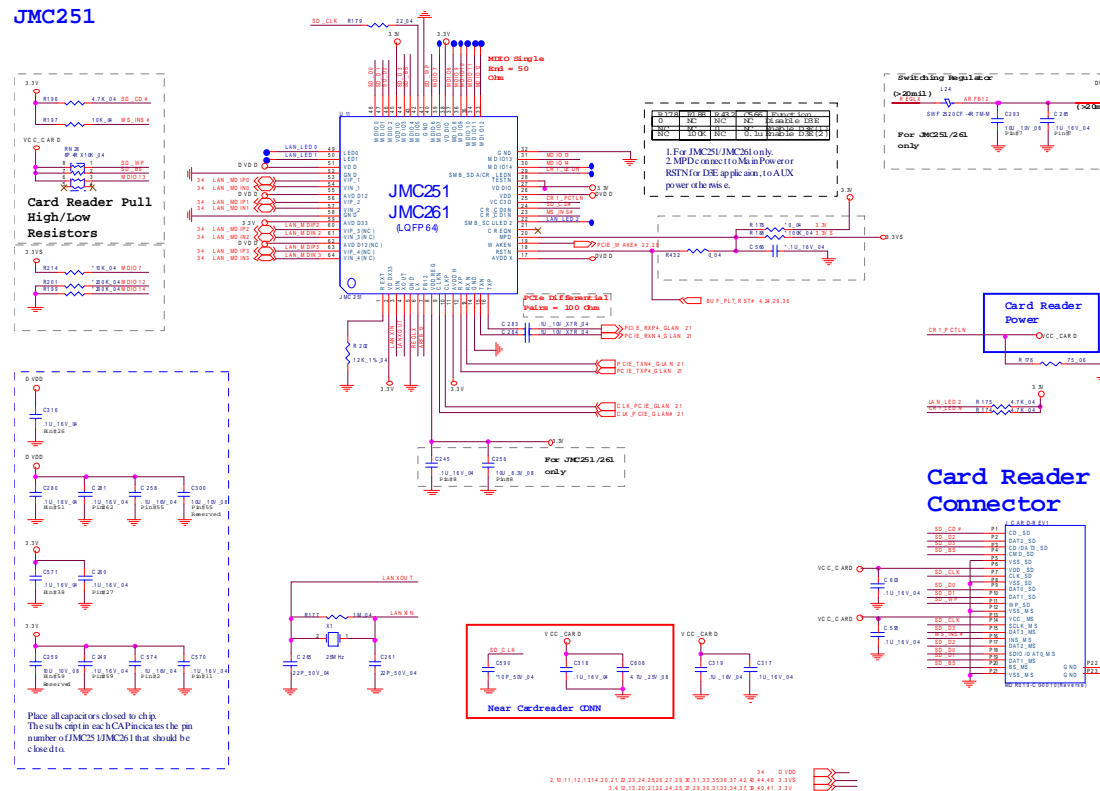


## B.Schematic Diagrams

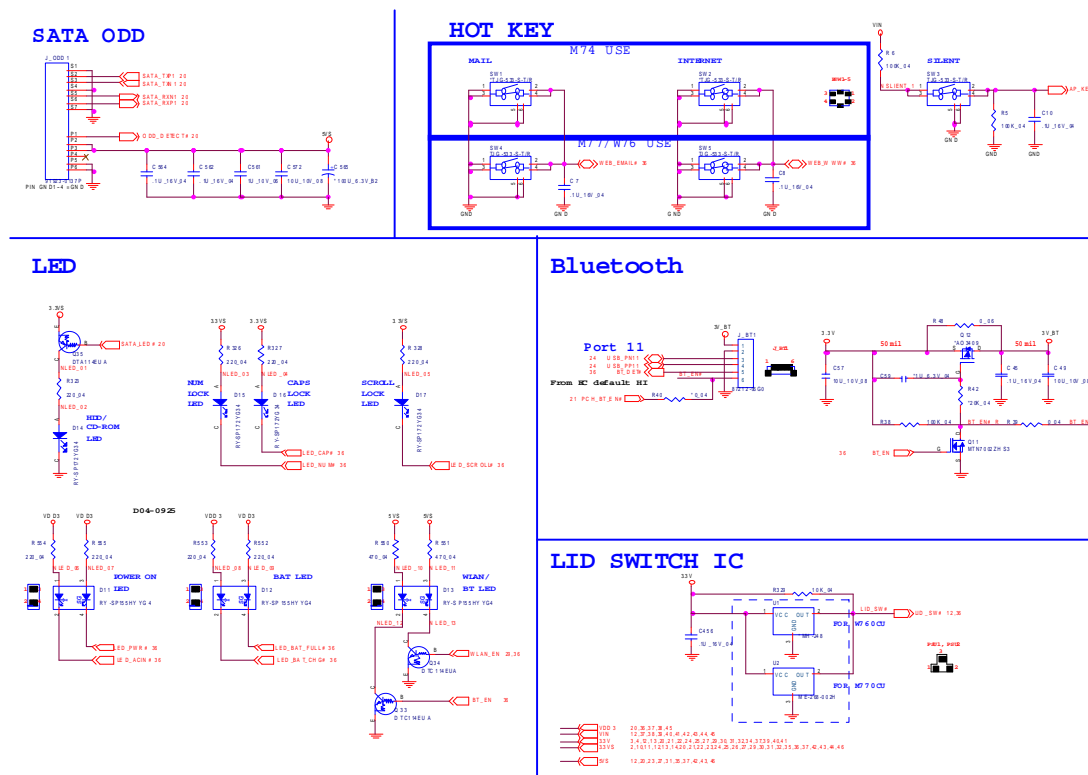
**Sheet 31 of 55**  
**USB, Fan, TP, FP,**  
**Multi Con**



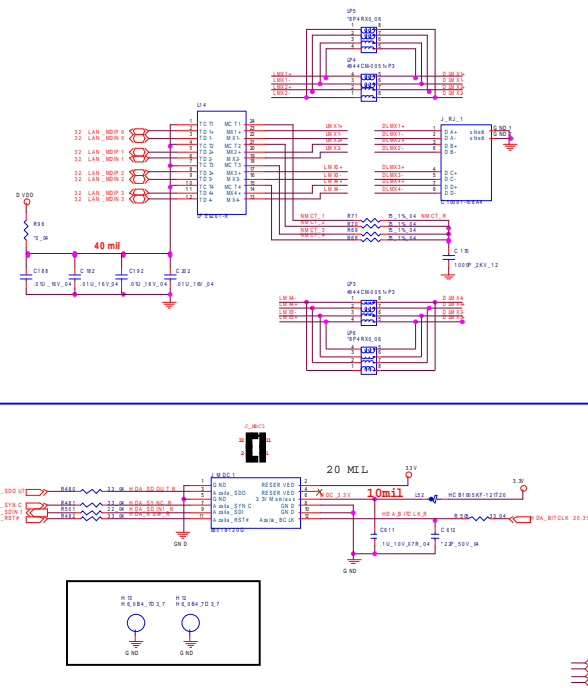
## Card Reader (JMC251)



**Sheet 33 of 55**  
**SATA ODD, LED,**  
**Hotkey, LID, SW**



## B.Schematic Diagrams

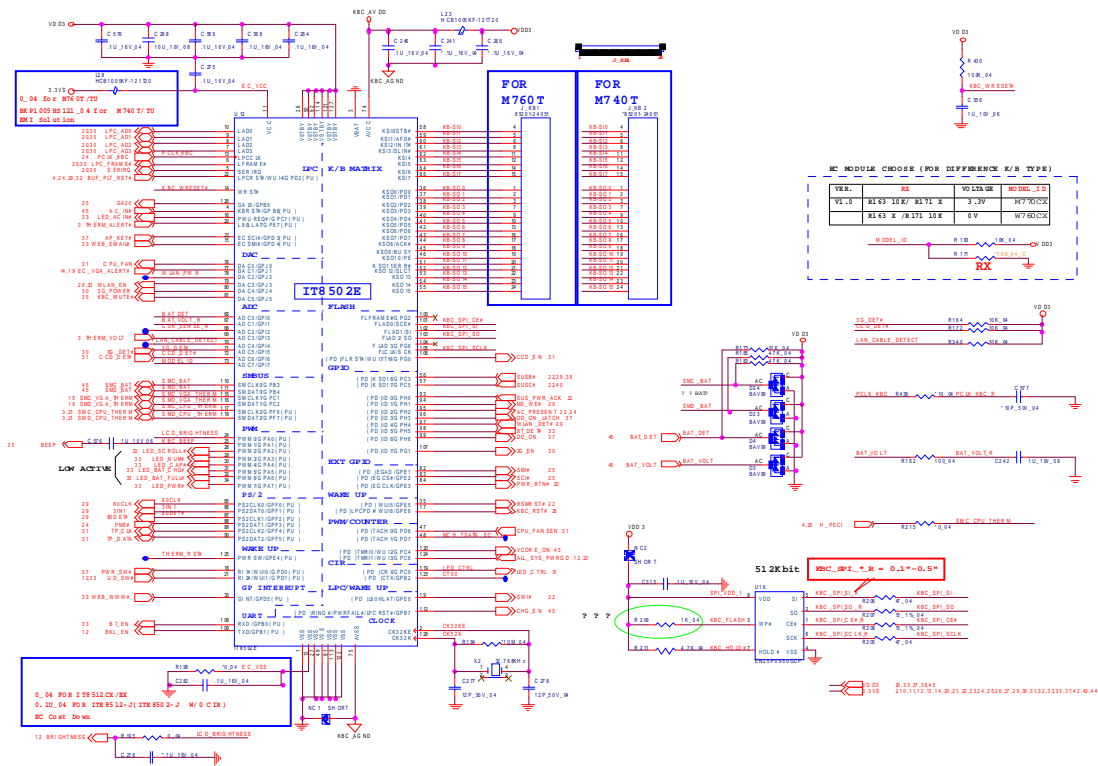


**Sheet 34 of 55**  
**Lan, Modem**

Sheet 35 of 55  
Audio Codec  
ALC272

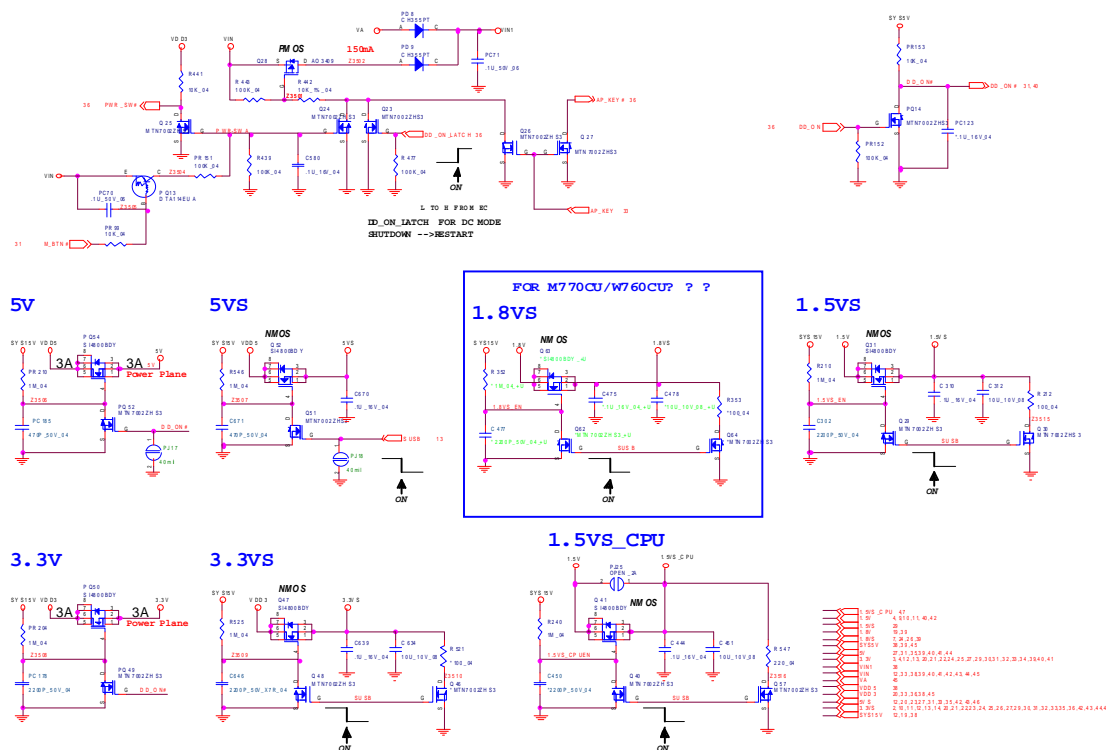


## KBC-ITE IT8502E



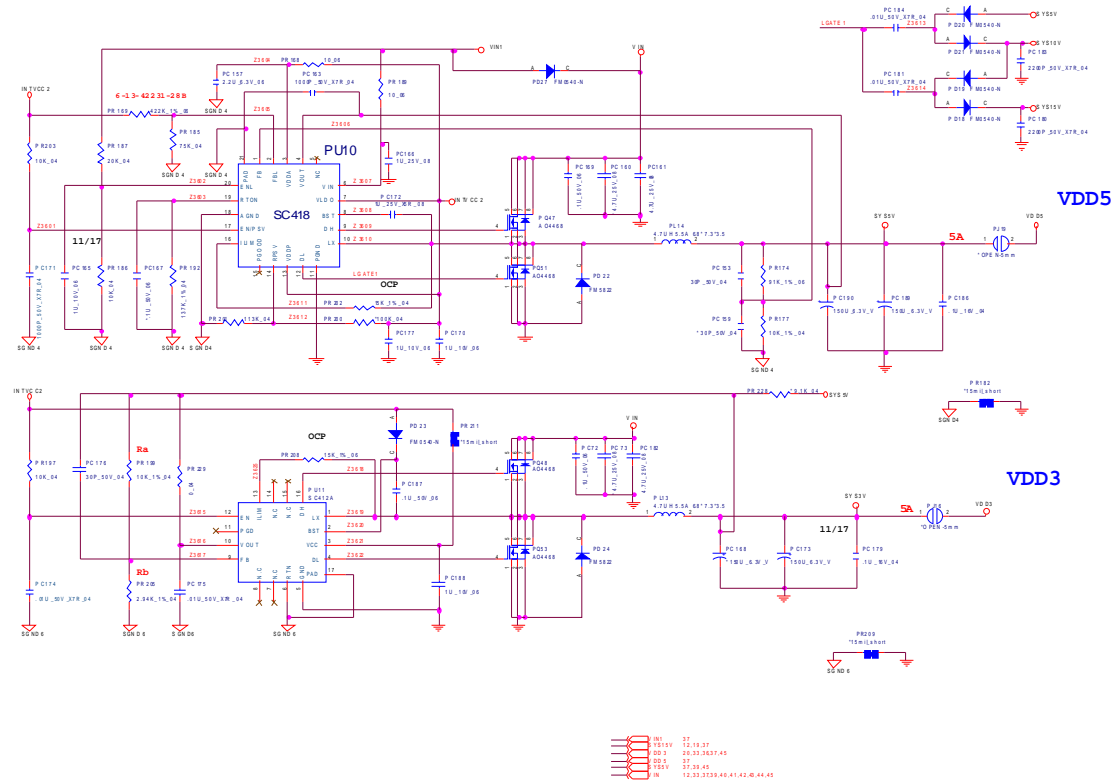
## B.Schematic Diagrams

**Sheet 37 of 55**  
**5VS, 3VS, 3.3VM,**  
**1.05VS, VIN1**





## B.Schematic Diagrams

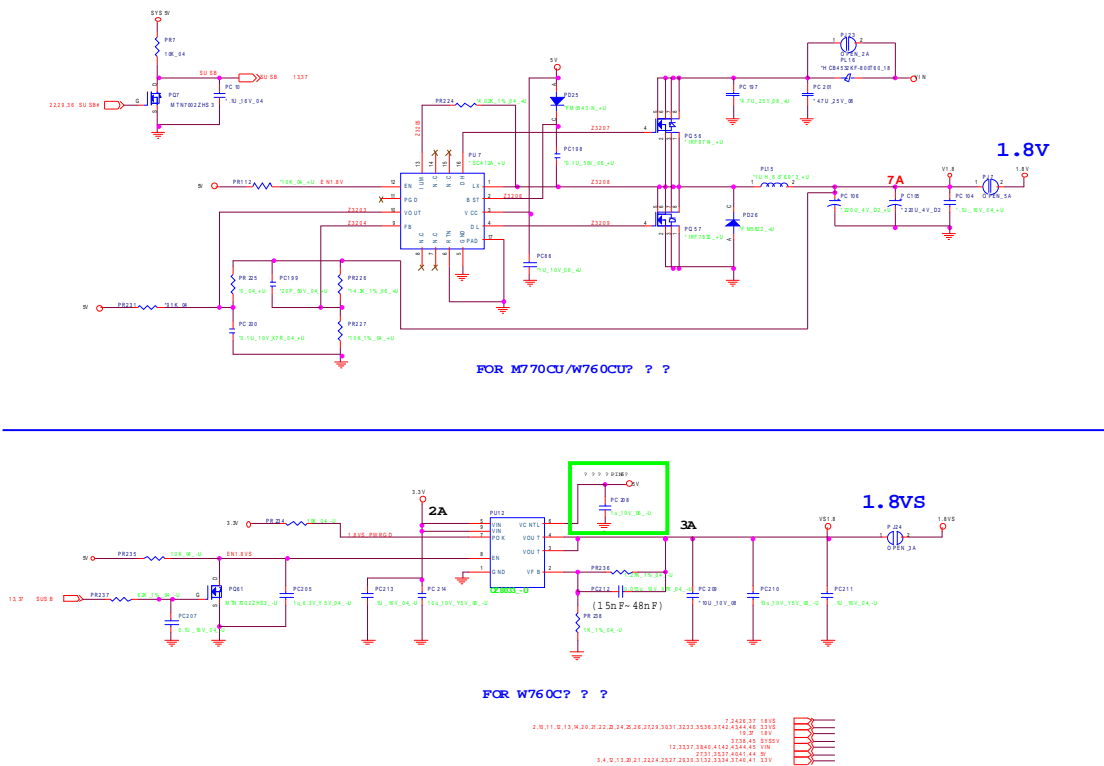


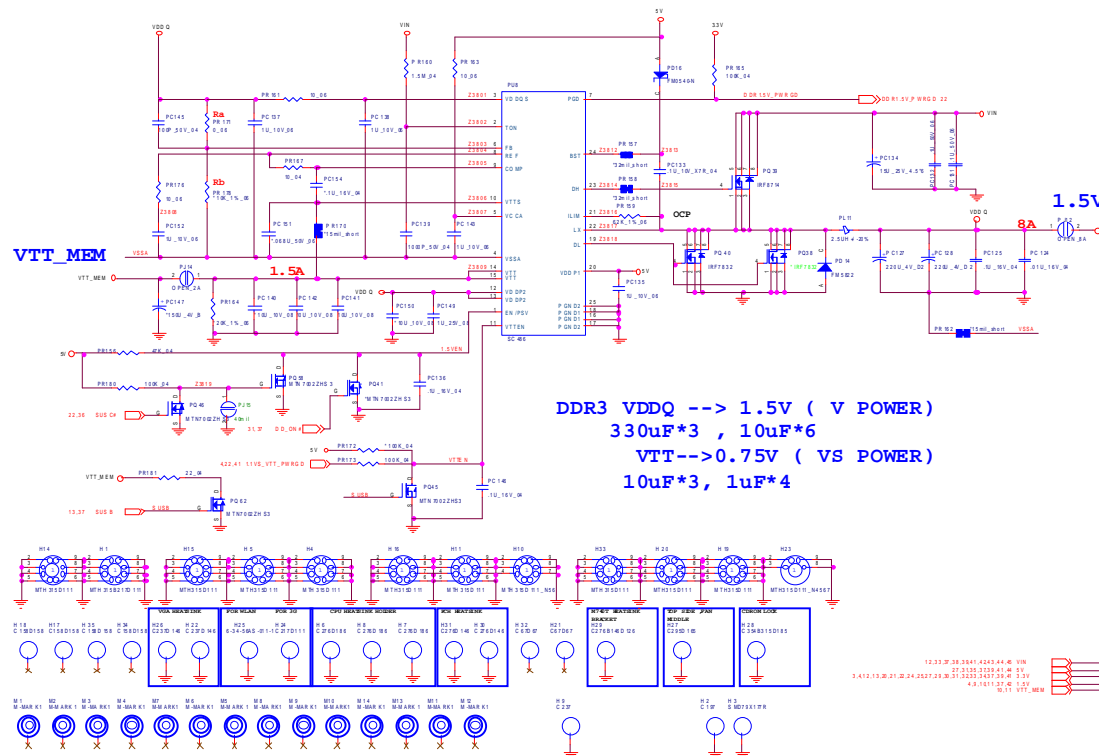
Sheet 38 of 55  
Power 3.3V/5V

Schematic Diagrams

Power 1.8V

Sheet 39 of 55  
Power 1.8V



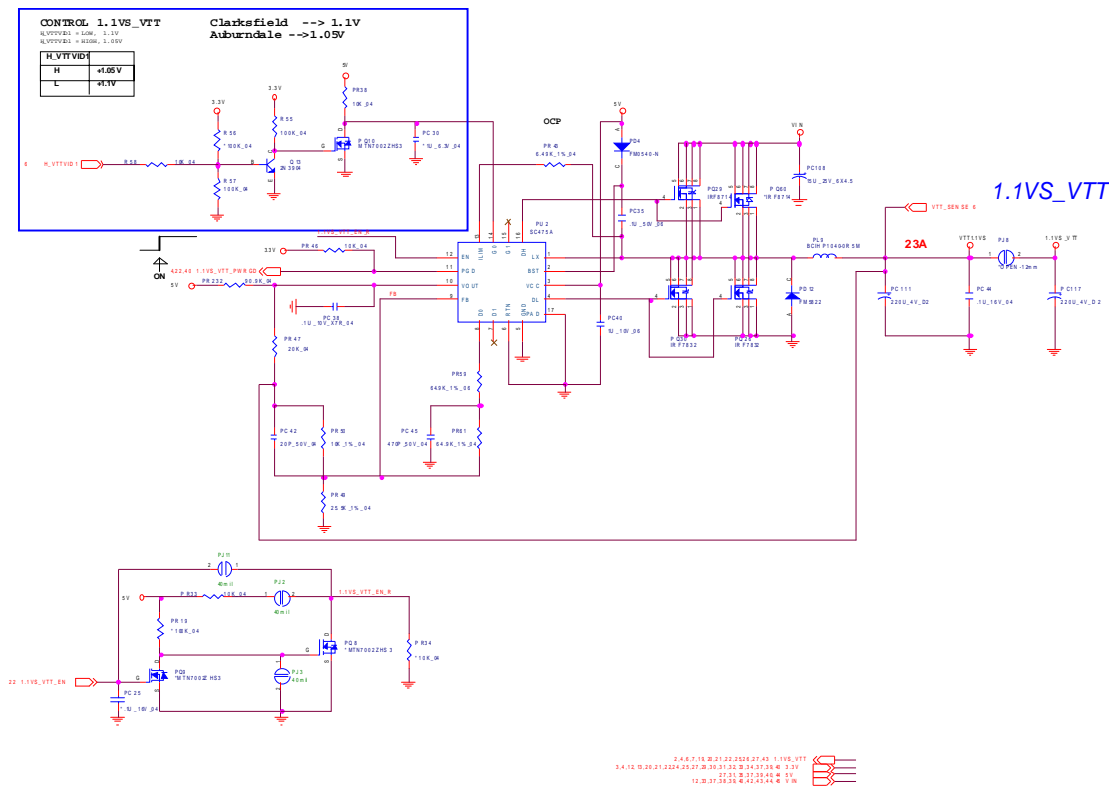


Sheet 40 of 55  
Power 1.5V/0.75V

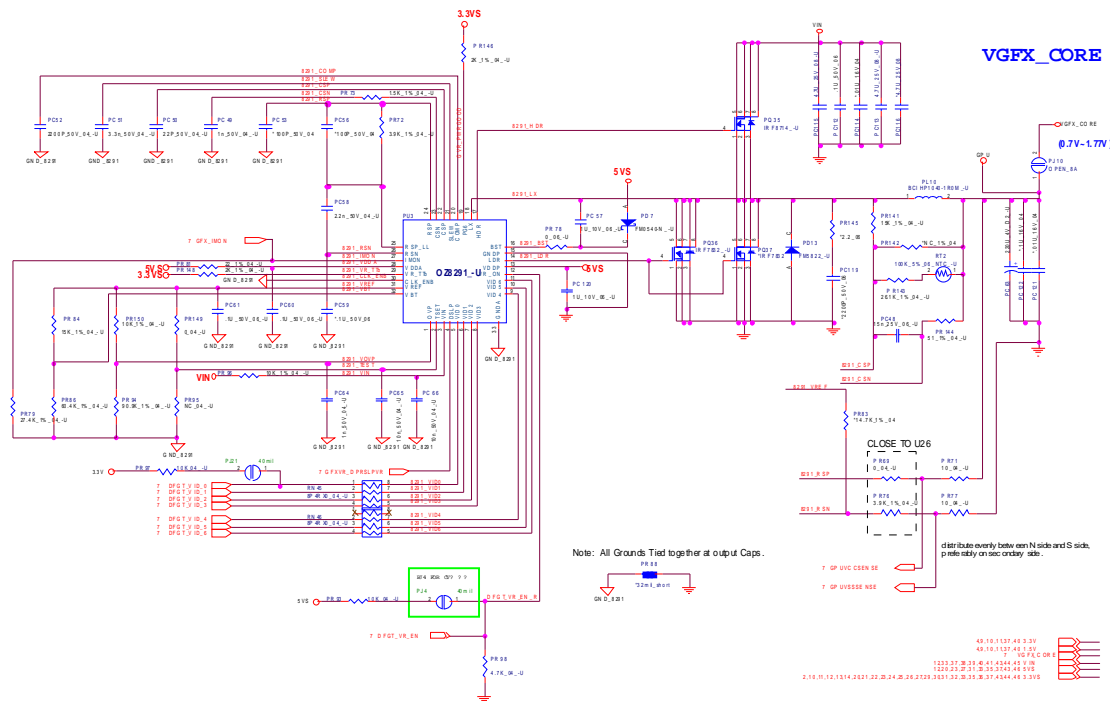
Schematic Diagrams

Power 1.1VS\_VTT

Sheet 41 of 55  
Power 1.1VS\_VTT



## Power VGFX\_CORE

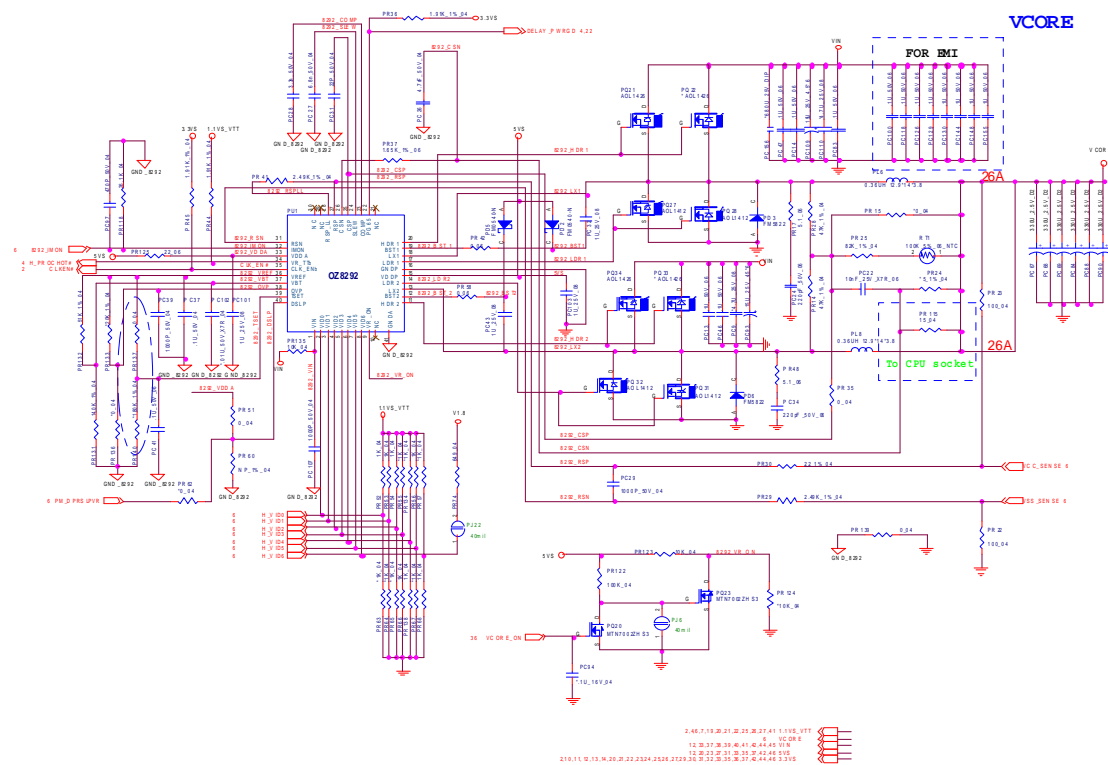


Sheet 42 of 55  
Power VGFX\_Core

## V-Core

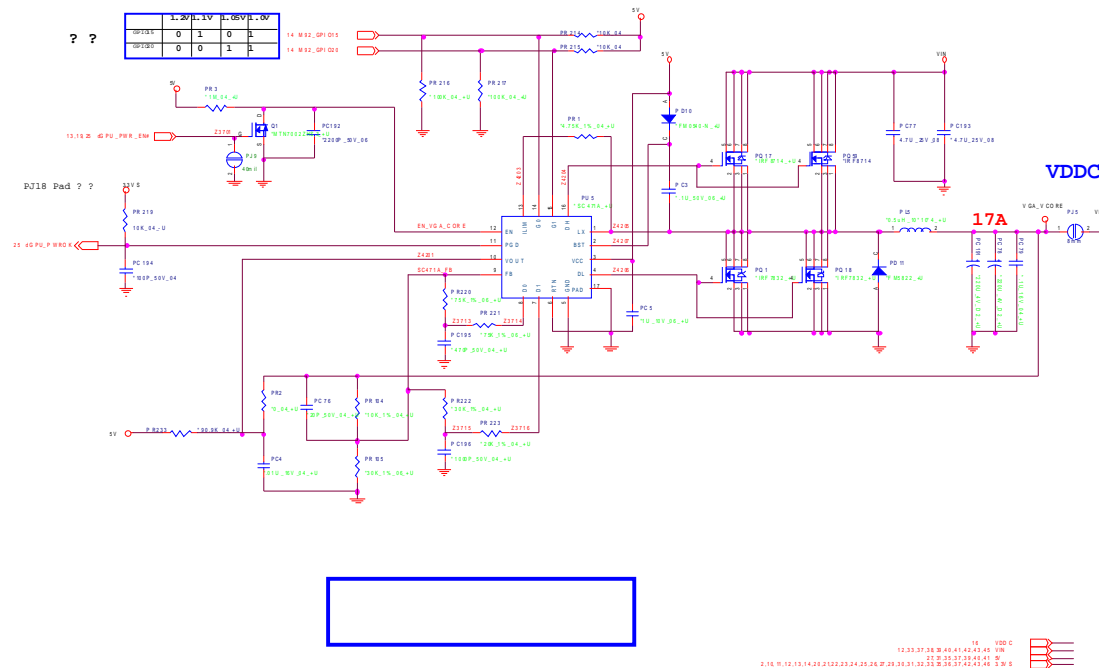
## B.Schematic Diagrams

**Sheet 43 of 55**  
**V-Core**



## M92 VDDC

FOR ATI M92-S2 XT VGA

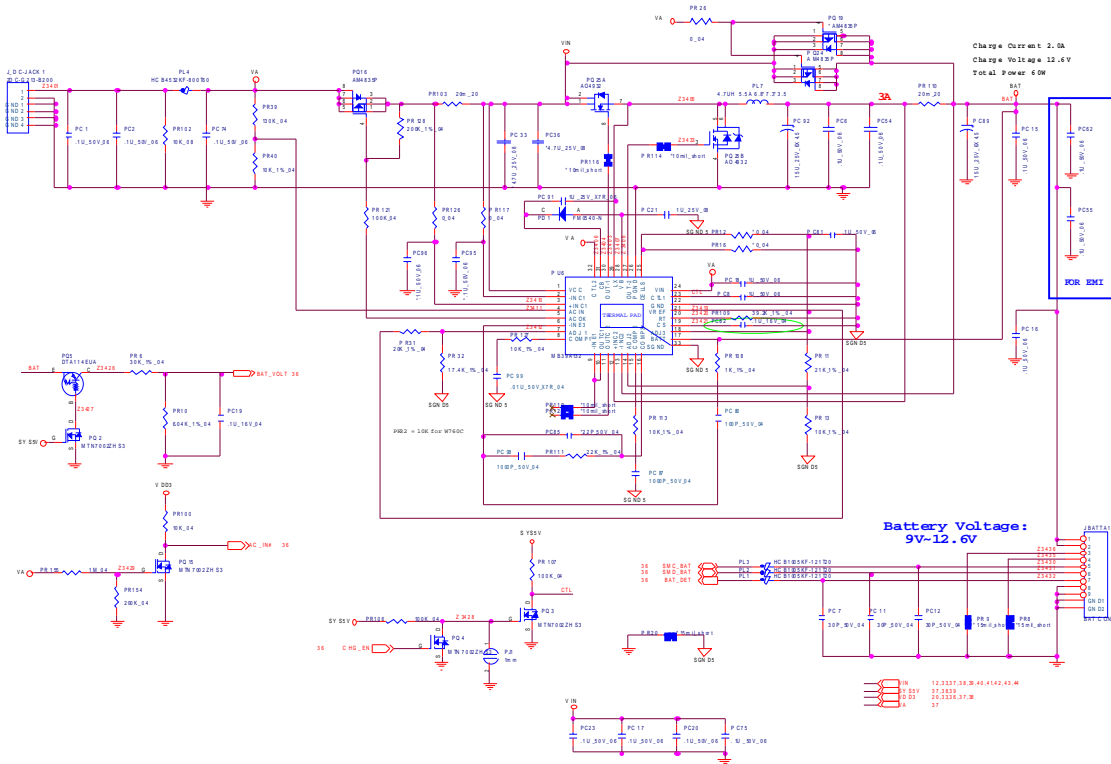


Sheet 44 of 55  
M92 VDDC

Schematic Diagrams

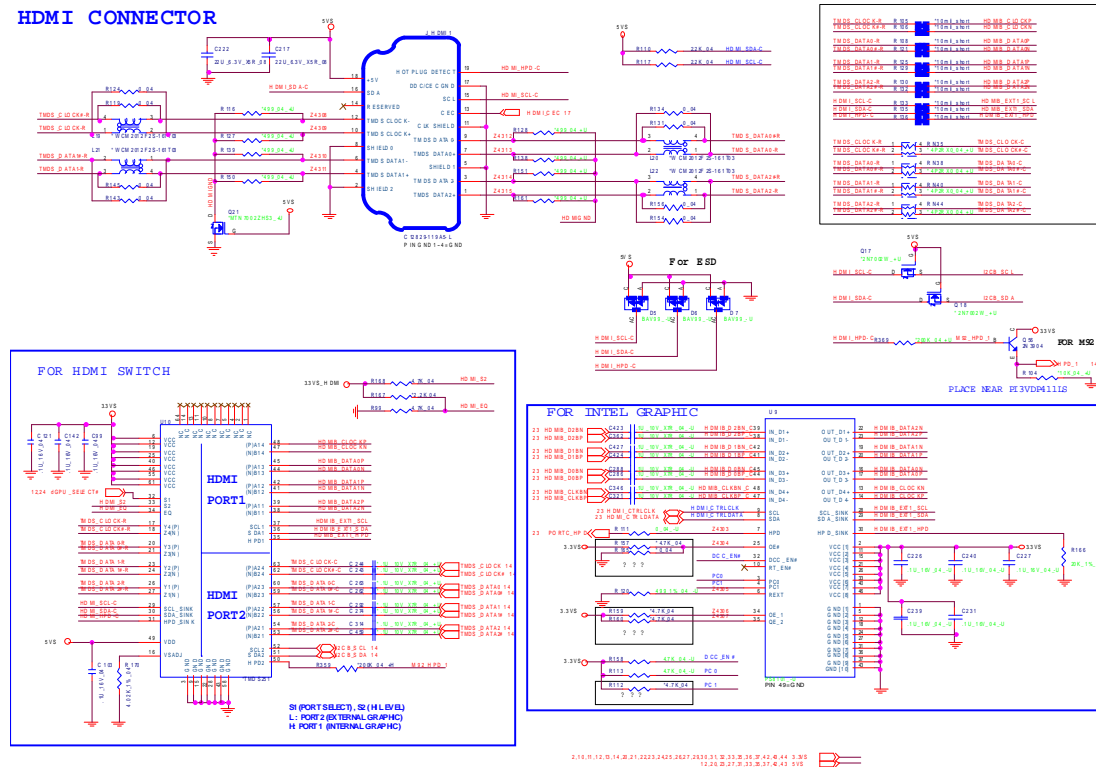
AC-IN, Charger

Sheet 45 of 55  
AC-IN, Charger





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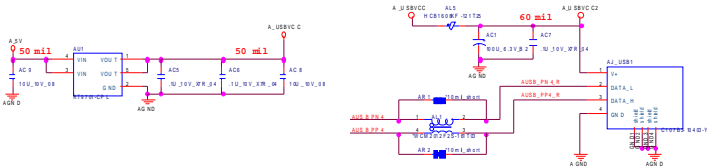


Schematic Diagrams

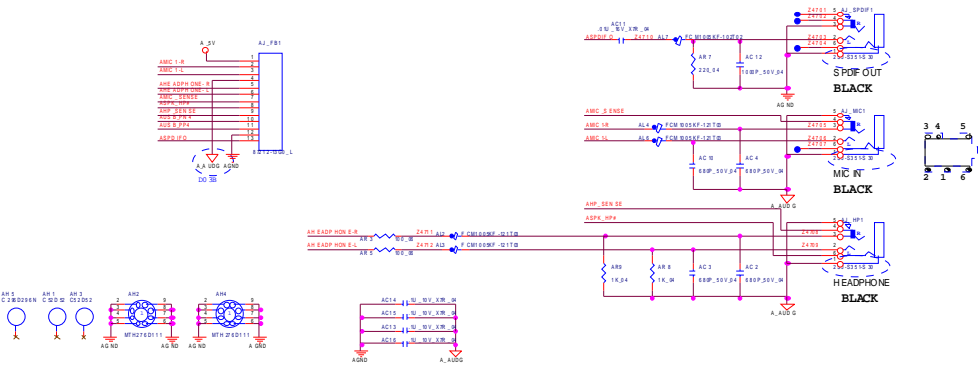
Audio Board

Sheet 47 of 55  
Audio Board

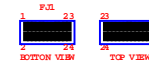
USB PORT



AUDIO JACK



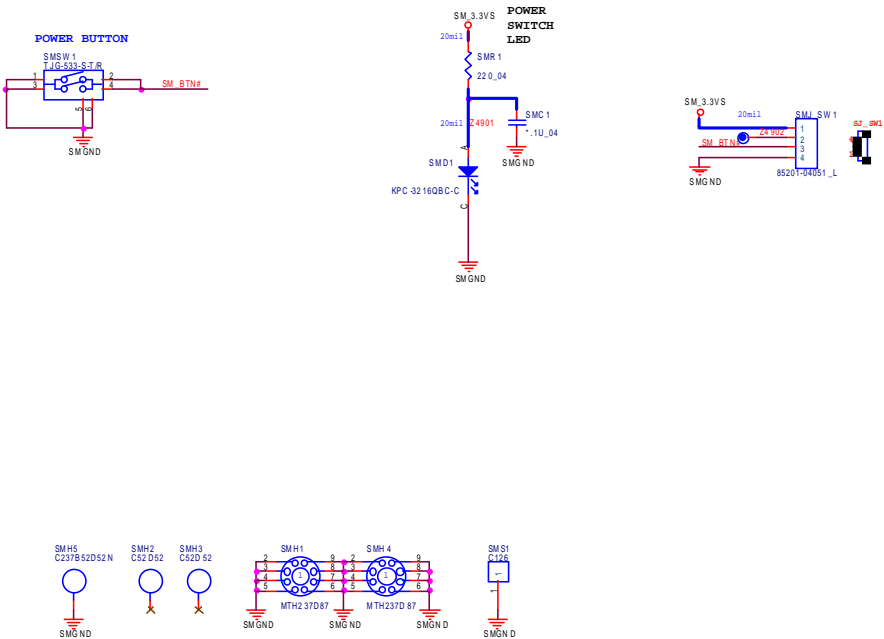
**Sheet 48 of 55**  
**Finger Sensor**  
**Board TCS4X**



Power Switch Board for M74

POWER SW & POWER LED FOR M74

Sheet 49 of 55  
Power Switch  
Board for M74



## Schematic Diagrams

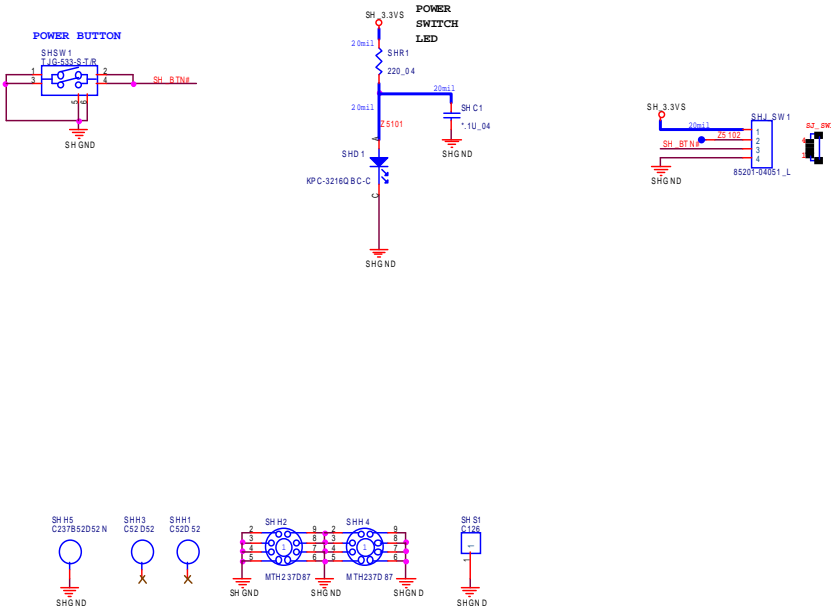


## Schematic Diagrams

Power Switch Board for M76

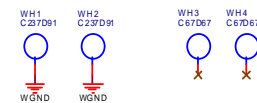
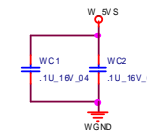
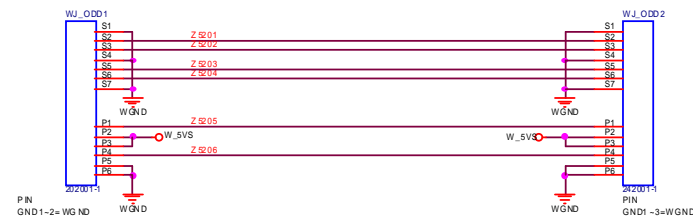
POWER SW & POWER LED FOR M76

Sheet 51 of 55  
Power Switch  
Board for M76



# External ODD Board for W76

## ODD BOARD FOR W76

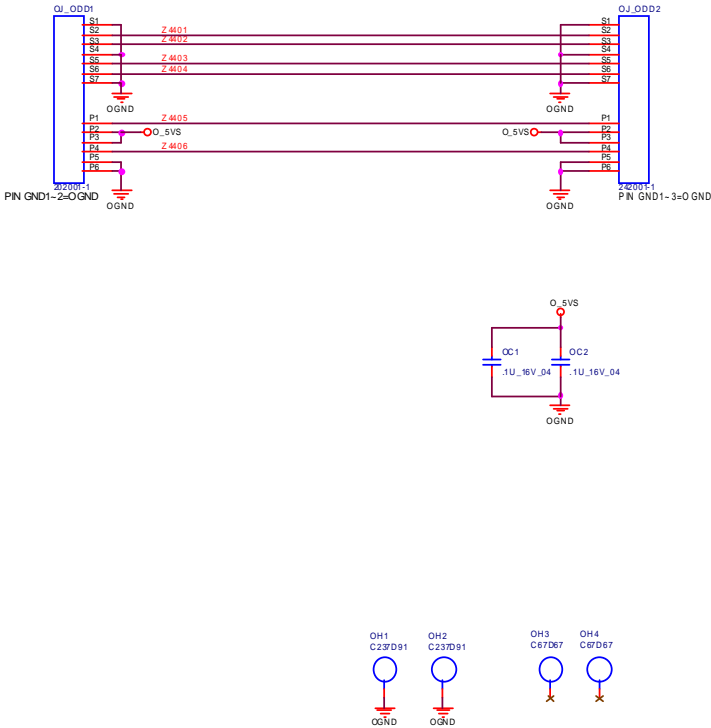


Sheet 52 of 55  
External ODD  
Board for W76

ODD Board for M760T

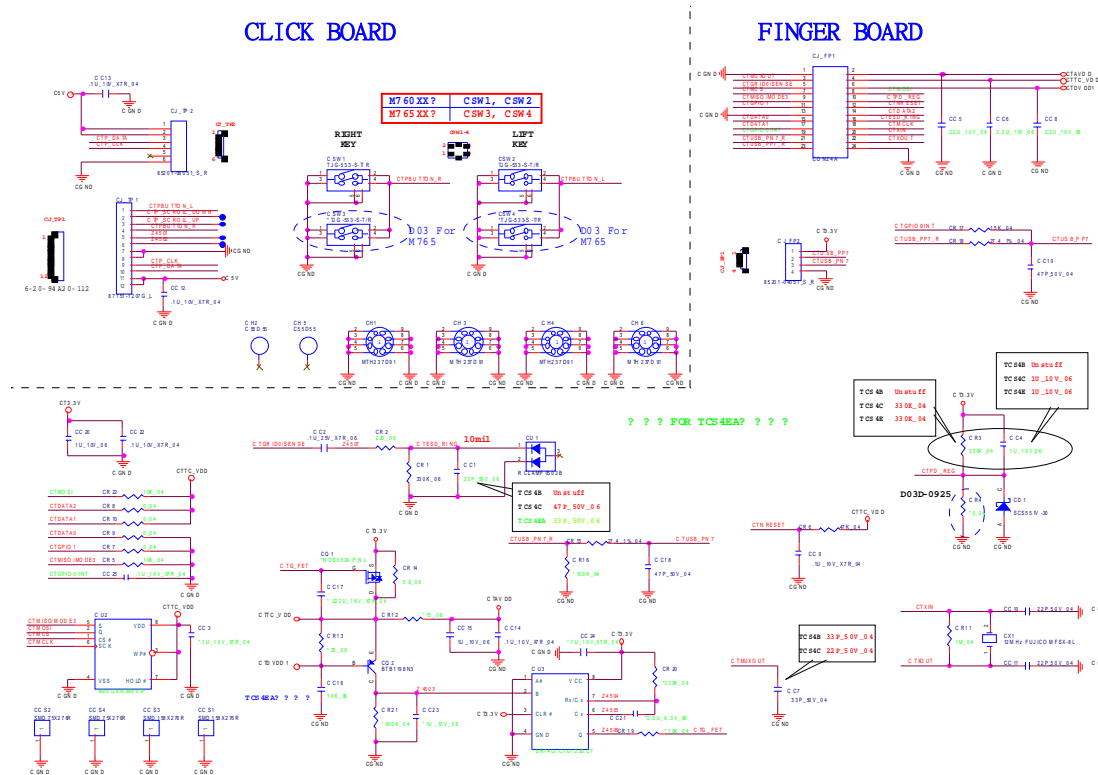
ODD BOARD

Sheet 53 of 55  
ODD Board for  
M760T



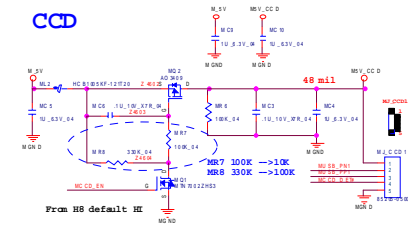
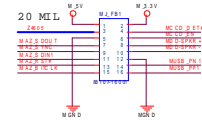
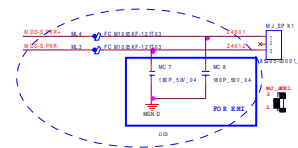


# Click Finger Board for M77



Sheet 54 of 55  
Click Finger Board  
for M77

**Sheet 55 of 55**  
**Multi Function**  
**Board**

[illegible]