

SERVICE MANUAL

W760SUA

notebook



Notebook Computer

W760SUA

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 **W760SUA** 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

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 (**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

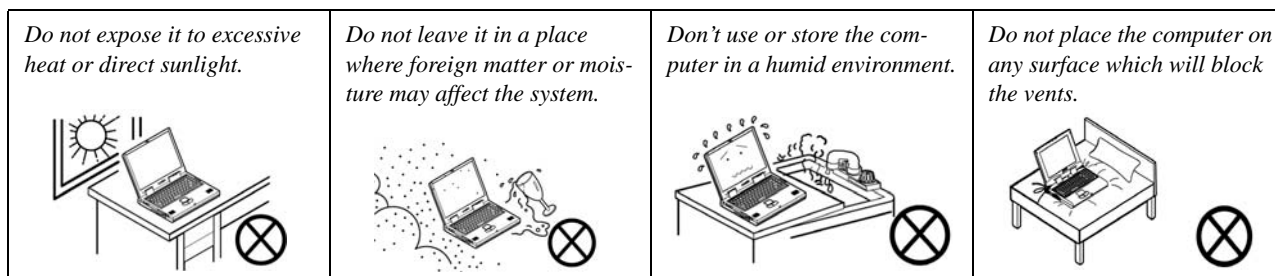
Instructions for Care and Operation

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

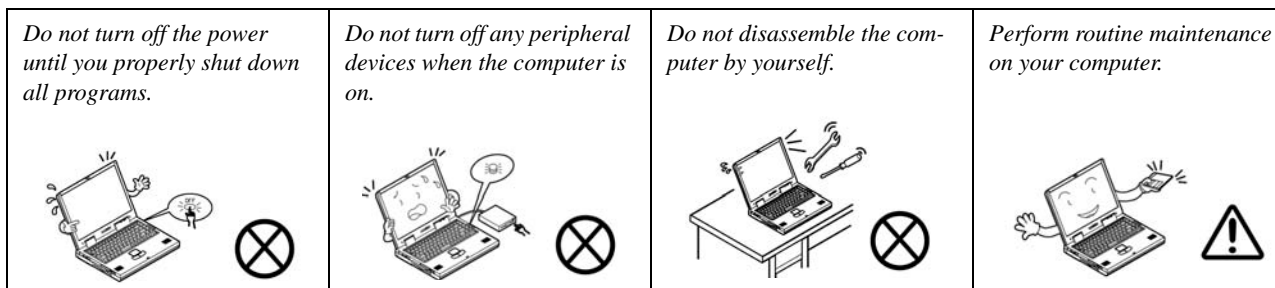
1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.



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.

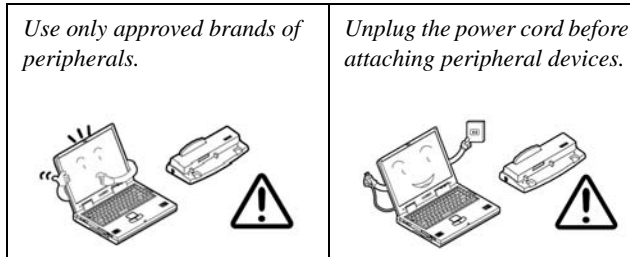


3. **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.



Preface

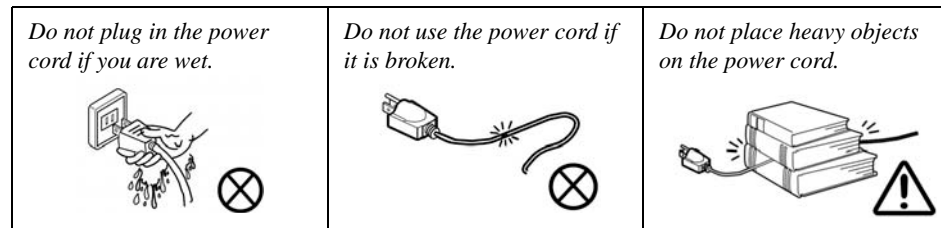
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



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

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 **W760SUA** 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 **W760SUA** 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

Processor	Memory
Intel® Core™2 Duo Processor: T8100 (2.1GHz) / T8300 (2.4GHz) (478-pin) Micro-FC-PGA Package, Socket P, 45nm (45 Nanometer) Process Technology, 3MB On-die L2 Cache & 800MHz FSB - TDP 35W T9300 (2.5GHz) / T9500 (2.6GHz) (478-pin) Micro-FC-PGA Package, Socket P, 45nm (45 Nanometer) Process Technology, 6MB On-die L2 Cache & 800MHz FSB - TDP 35W T7300 (2.0GHz) / T7500 (2.2GHz) T7700 (2.4GHz) / T7800 (2.6GHz) (478-pin) Micro-FC-PGA Package, Socket P, 45nm (45 Nanometer) Process Technology, 4MB On-die L2 Cache & 800MHz FSB - TDP 35W	64-bit Wide DDRII (DDR2) Data Channel Two 200 Pin SO-DIMM Sockets Supporting DDRII (DDR2) 667MHz Memory Expandable up to 4GB (1024MB/ 2048MB DDRII Modules)
Processor (cont'd)	Video Adapter
Intel® Celeron® Processor: T1600 (1.66GHz) / T1700 (1.86GHz) (478-pin) Micro-FC-PGA Package, Socket P, 65nm (65 Nanometer) Process Technology, 1MB On-die L2 Cache & 667MHz FSB - TDP 35W 575 (2.0GHz) / 585 (2.16GHz) (478-pin) Micro-FC-PGA Package, Socket P, 65nm (65 Nanometer) Process Technology, 1MB On-die L2 Cache & 667MHz FSB - TDP 35W	ATI Mobility Radeon HD 4570 Discrete Graphics On Board (PCIe * 16) 512MB GDDR2 Video RAM on board Supports Microsoft DirectX® 10.1
Core Logic	BIOS
SiS 671DX + SiS968 Chipset	One 8Mb SPI Flash ROM Phoenix™ BIOS
Display	Storage
15.6" HD 16:9 Wide Screen (1366 * 768) TFT LCD	One Changeable 12.7mm(h) Optical Device (CD/DVD) Type Drive (see ?\$paratext?> on page 1 - 4) Easy Changeable 2.5" 9.5 mm (h) SATA (Serial) HDD
	Audio
	High Definition Audio Compliant Interface Compliant with Microsoft UAA (Universal Audio Architecture) 2 * Built-In Speakers Built-In Microphone
	Keyboard & Pointing Device
	Full Size WinKey Keyboard Built-in TouchPad (integrated scrolling key functionality)

Interface
Three USB 2.0 Ports One Headphone-Out Jack One Microphone-In Jack One S/PDIF-Out Jack One RJ-11 Modem Jack One RJ-45 LAN Jack One DC-In Jack One External Monitor Port
Card Reader
Embedded 7-in-1 Card Reader (MS/ MS Pro/ SD/ Mini SD/ MMC/ RS MMC/ MS Duo) Note: MS Duo/ Mini SD/ RS MMC Cards require a PC adapter
Slots
One ExpressCard/34/54 Slot <u>Two Mini-Card Slots with USB interface:</u> Slot 1 for WLAN Module Slot 2 for 3.5G Module (Factory Option)
Power
Full Range AC/DC Adapter AC input 100 - 240V, 50 - 60Hz, DC Output 19V, 4.74A (90 Watts) 6 Cell Smart Lithium-Ion Battery Pack, 4400mAH 9 Cell Smart Lithium-Ion Battery Pack, 7200mAH (Option)
Power Management
Supports Wake on LAN Supports Wake on USB Supports Resume from Modem Ring
Security
Security (Kensington® Type) Lock Slot Fingerprint ID Reader Module (Factory Option) BIOS Password

Communication
56K Fax Modem Built-In 10M/100Mb Base-TX Ethernet LAN 802.11b/g Wireless LAN Mini-Card Module with USB interface (Option) 1.3M or 2.0M Pixel USB PC Camera Module (Factory Option) Bluetooth 2.1 + EDR (Enhanced Data Rate) Module (Factory Option) OR 3.5G Module: UMTS/HSPDA-based 3.5G Module with Mini-Card Interface (Factory Option) Quad-band GSM/GPRS (850 MHz, 900 MHz, 1800 MHz, 1900 MHz) UMTS WCDMA FDD (2100 MHz)
Note that UMTS modes CAN NOT be used in North America.
Operating System
Windows® Vista (with Service Pack 1) Windows® XP (with Service Pack 3)
Environmental Spec
Temperature Operating: 5°C - 35°C Non-Operating: -20°C - 60°C Relative Humidity Operating: 20% - 80% Non-Operating: 10% - 90%
Dimensions & Weight
374mm (w) * 256mm (d) * 25-37.9mm (h) 2.7 kg With 6 Cell Battery & ODD

Introduction

Optional

Optical Drive Module Options:

Super Multi Drive Module

Blu-Ray Combo Drive Module

802.11b/g Wireless LAN Mini-Card Module with USB interface

9 Cell Smart Lithium-Ion Battery Pack, 7200mAH

1.3M or 2.0M Pixel USB PC Camera Module (**Factory Option**)

Fingerprint ID Reader Module (**Factory Option**)

Bluetooth 2.1 + EDR (Enhanced Data Rate) Module (**Factory Option**)

OR

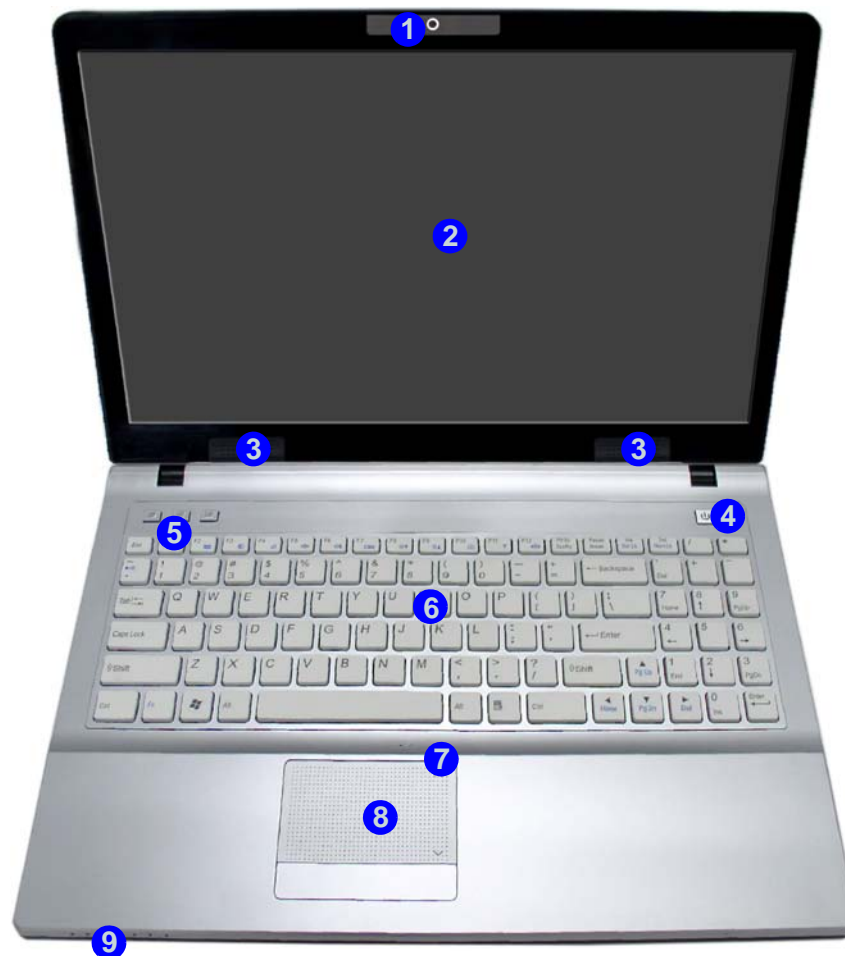
UMTS/HSPDA-based 3.5G Module with Mini-Card Interface (**Factory Option**)

Quad-band GSM/GPRS (850 MHz, 900 MHz, 1800 MHz, 1900 MHz)

UMTS WCDMA FDD (2100 MHz)

External Locator - Top View with LCD Panel Open

Figure 1
Top View



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

Introduction

Figure 2
Front Views

1. LED Indicators

External Locator - Front & Right side Views



Figure 3
Right Side Views

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



External Locator - Left Side & Rear View



Figure 4
Left Side View

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



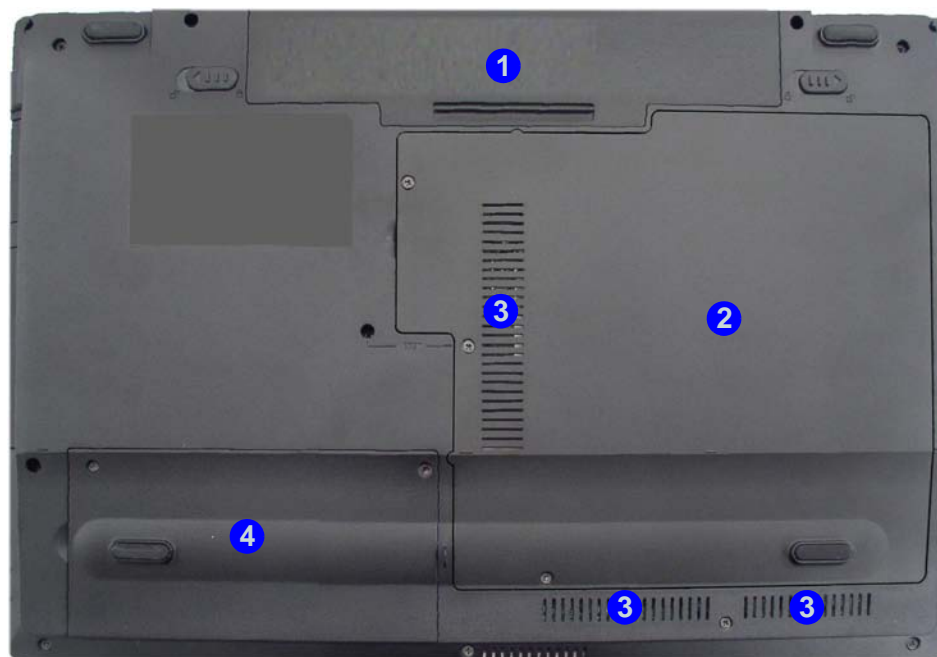
Figure 5
Rear View

8. Battery

External Locator - Bottom View

Figure 6
Bottom View

1. Battery
2. RAM & CPU Bay Cover
3. Vent/Fan Intake/Outlet
4. Hard Disk Bay Cover



Overheating

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

Mainboard Overview - Top (Key Parts)

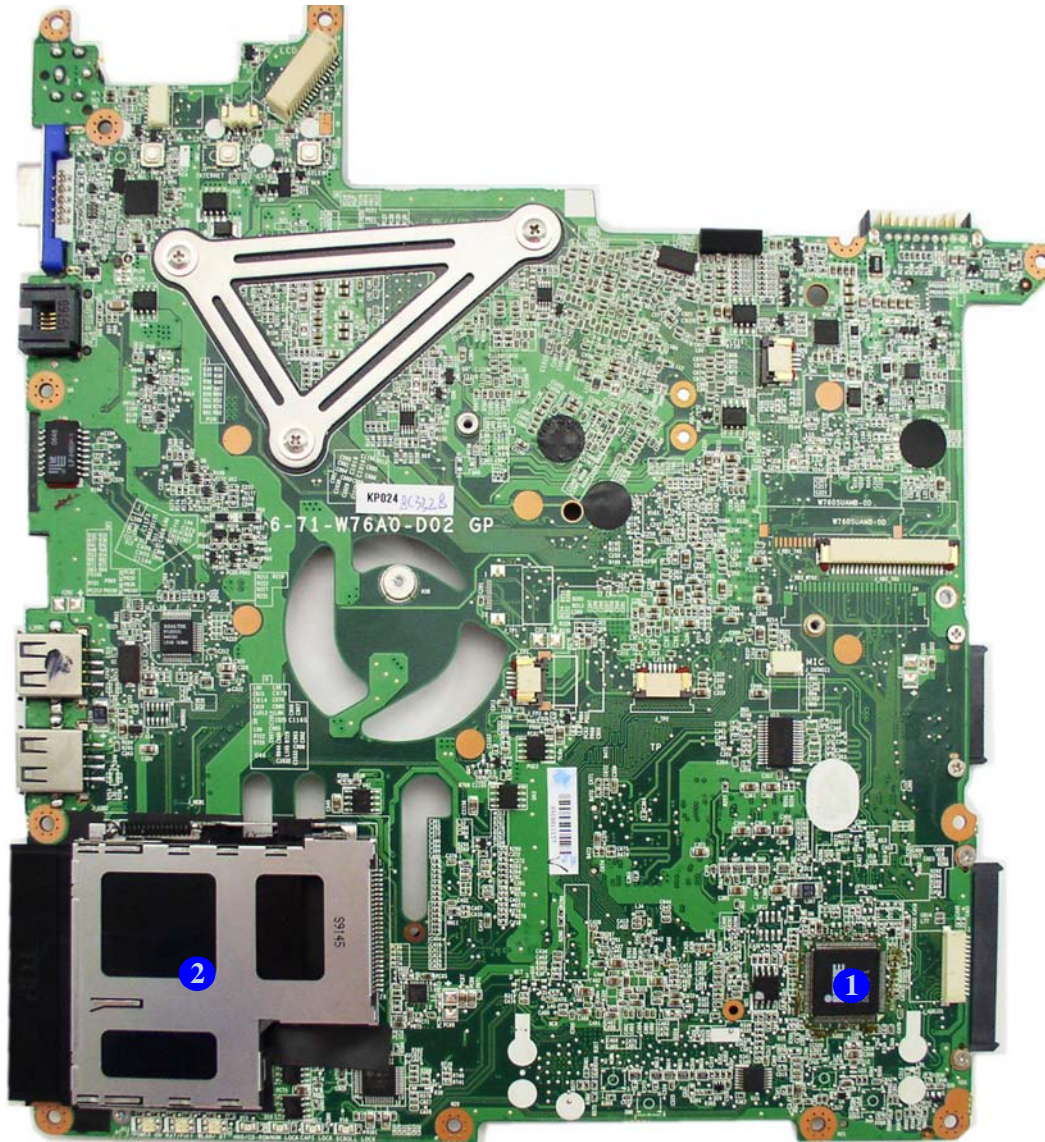


Figure 7
**Mainboard Top
Key Parts**

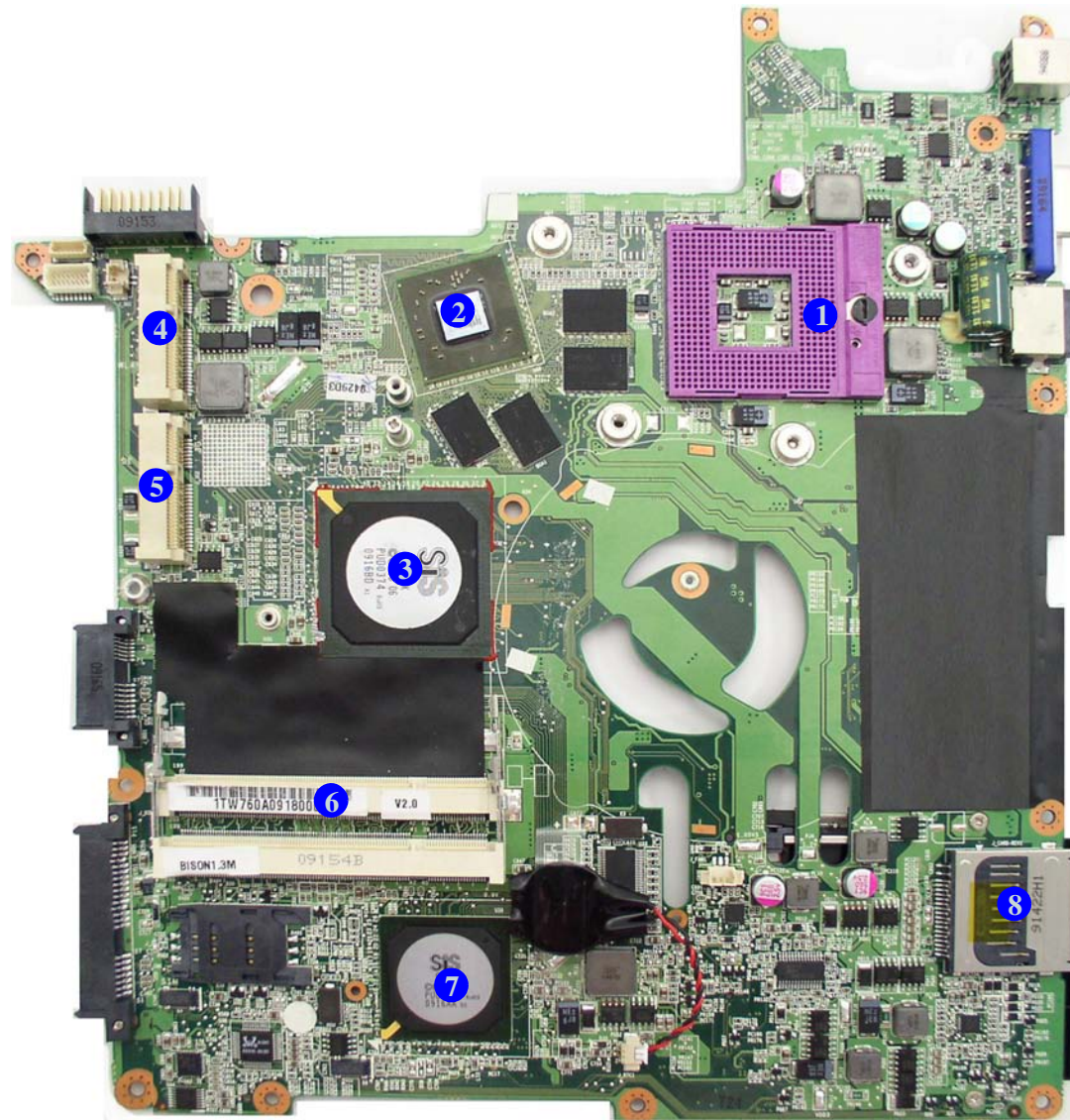
1. KBC ITE IT8512E
2. Expresscard
Socket

Introduction

Figure 8
**Mainboard Bottom
Key Parts**

1. CPU Socket
2. VGA Chip
3. North Bridge
4. Mini-Card
Connector
(WLAN Module)
5. Mini-Card
Connector
6. Memory Slots
DDR2 So-DIMM
7. South Bridge
8. Card Reader
Socket

Mainboard Overview - Bottom (Key Parts)



Mainboard Overview - Top (Connectors)

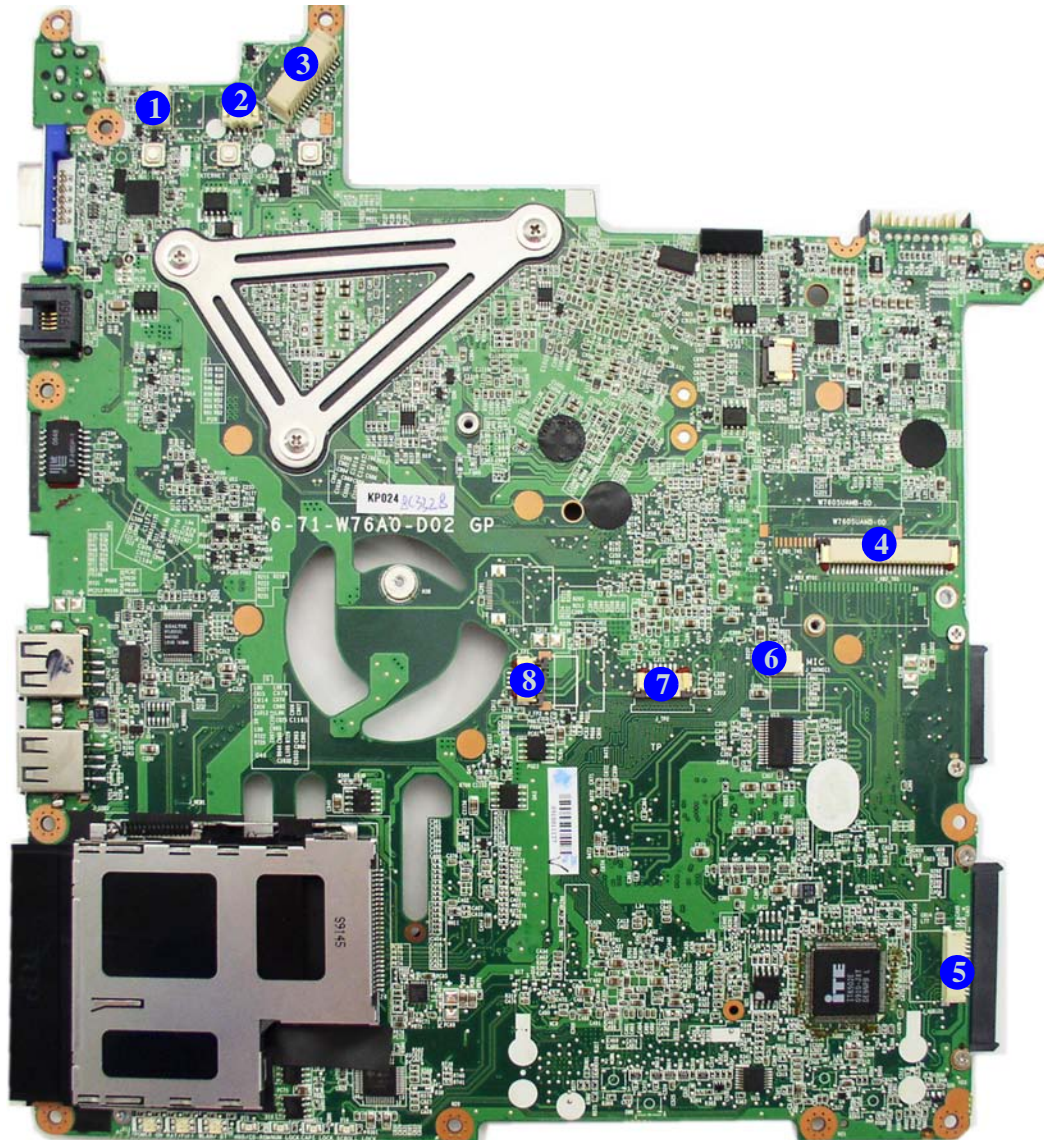


Figure 9
**Mainboard Top
Connectors**

1. CCD Cable Connector
2. Inverter Connector
3. LCD Cable Connector
4. Keyboard Cable Connector
5. Audio Cable Connector
6. Microphone Cable Connector
7. Touch Pad Connector
8. Fingerprint Cable Connector

Introduction

Figure 10
**Mainboard Bottom
Connectors**

1. BT Cable Connector
2. Multi-Board Cable Connector
3. CD-ROM Connector
4. HDD Connector
5. CMOS Bat. Connector
6. CPU Fan Cable Connector

Mainboard Overview - Bottom (Connectors)




Chapter 2: Disassembly



Overview

This chapter provides step-by-step instructions for disassembling the **W760SUA** 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

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 - 8*

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 - 14*

To remove the Bluetooth Module:

1. Remove the battery *page 2 - 5*
2. Remove the Bluetooth *page 2 - 15*

To remove the Keyboard:

1. Remove the battery *page 2 - 5*
2. Remove the Keyboard *page 2 - 16*

To remove the Inverter Board:

1. Remove the battery *page 2 - 5*
2. Remove the inverter board *page 2 - 17*

To remove the Modem:

1. Remove the battery *page 2 - 5*
2. Remove the HDD *page 2 - 6*
3. Remove the Optical device *page 2 - 8*
4. Remove the processor *page 2 - 11*
5. Remove the keyboard *page 2 - 16*
6. Remove the modem *page 2 - 18*

Removing the Battery

If you are confident in undertaking upgrade procedures yourself, for safety reasons it is best to remove 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 out in the direction of the arrow ④.

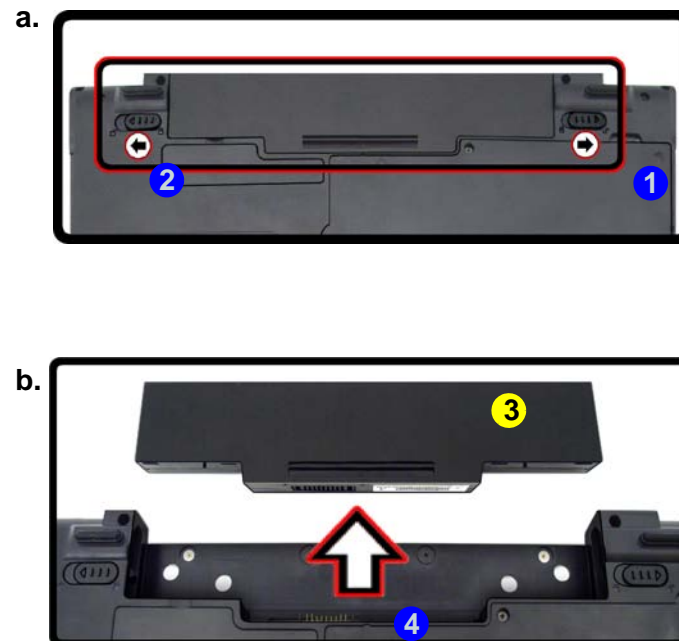
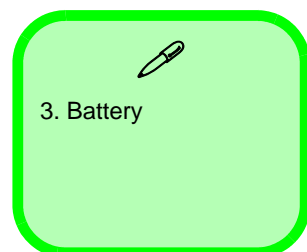


Figure 1
Battery Removal

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



Disassembly

Figure 2
**HDD Assembly
Removal**

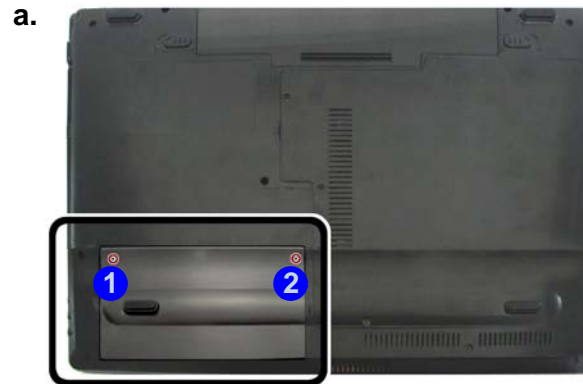
- a. Locate the HDD bay cover and remove the screw(s).

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 screw **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.

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 screw **6** and the adhesive cover **7** from the hard disk **8**.
7. Reverse the process to install a new hard disk (do not forget to replace all the screws and covers).

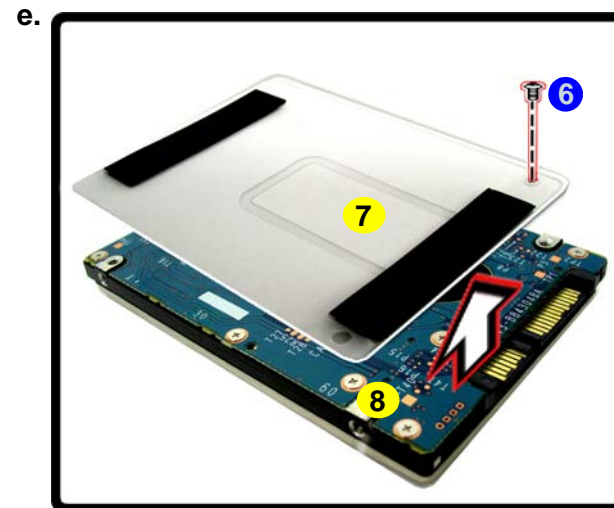
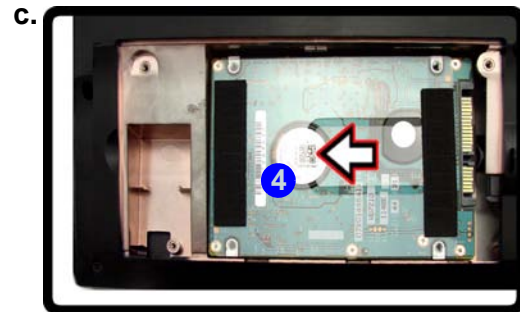
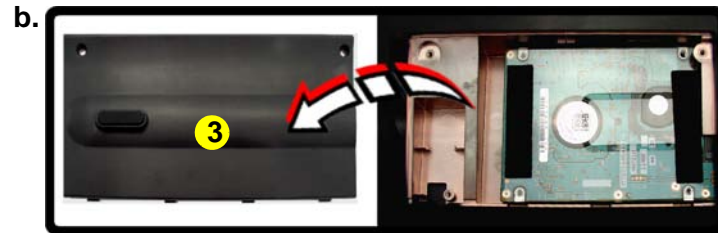


Figure 3
**HDD Assembly
Removal (cont'd.)**

- 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 screws and adhesive cover.



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

- 2 Screws

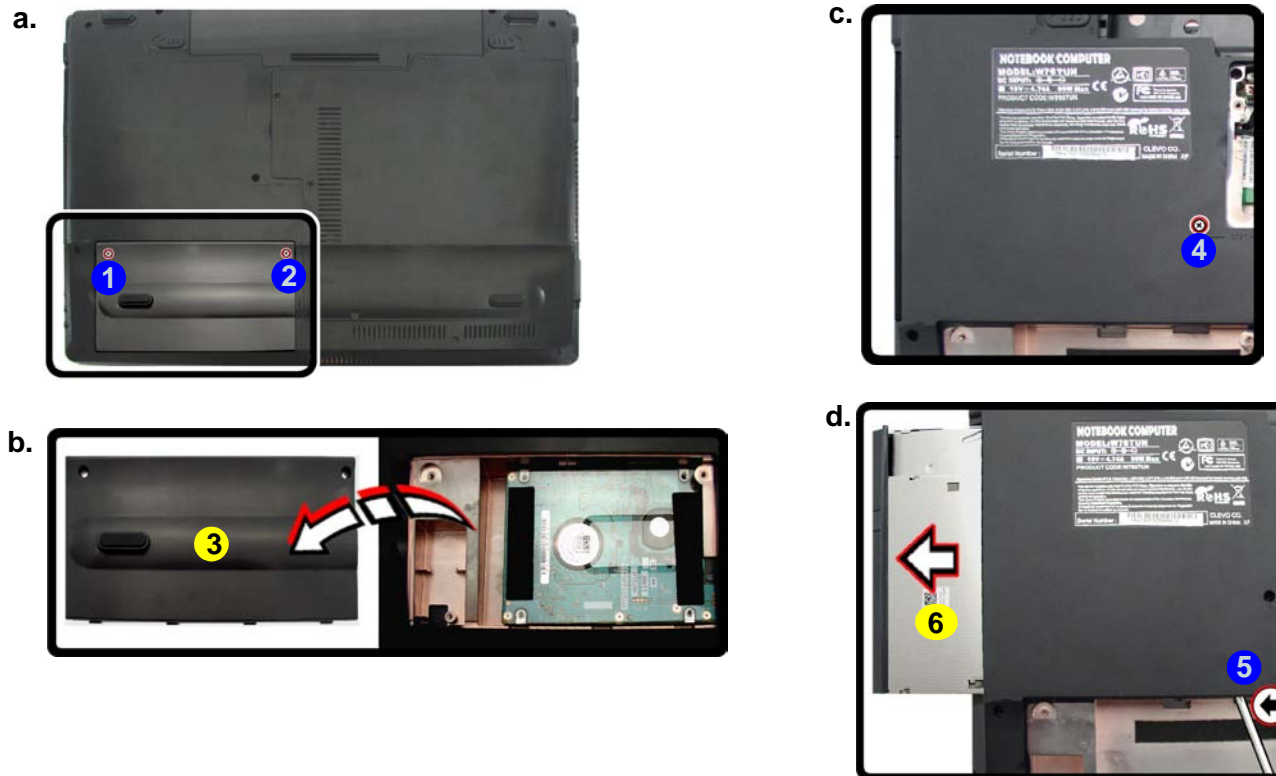
Disassembly

Figure 4
**Optical Device
Removal**

- Remove the screws.
- Remove the HDD bay cover.
- Remove the screw.
- Push the optical device out off the computer at point 6.

Removing the Optical (CD/DVD) Device

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



- HDD Bay Cover
- Optical Device

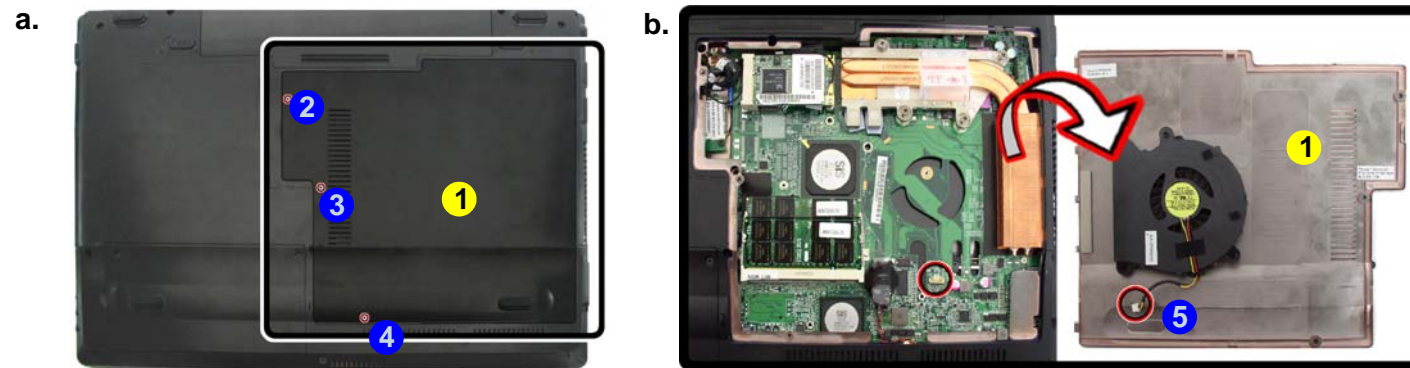
- 3 Screws

Removing the System Memory (RAM)

The computer has two memory sockets for 200 pin Small Outline Dual In-line Memory Modules (SO-DIMM) supporting **DDR2** 667/800MHz. The main memory can be expanded up to 4GB. The SO-DIMM modules supported are 1024MB, and 2048MB and **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 component 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**.



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.



Fan Cable

Make sure you reconnect the fan cable **5** before screwing down the bay cover.



1. Component Bay Cover

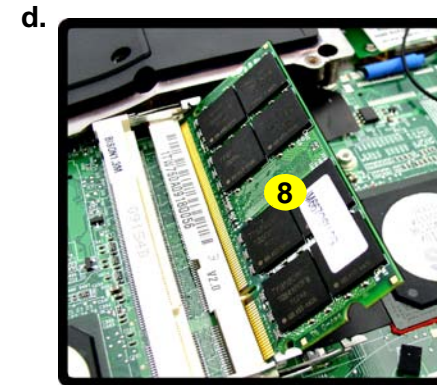
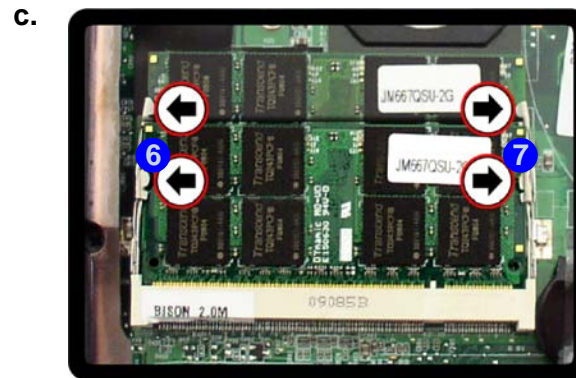
- 3 Screws

Disassembly

Figure 6
**RAM Module
Removal (cont'd.)**

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

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



Single Memory Module Installation

If your computer has a single memory module, then insert the module into the **Channel 0 (J_DIMM_1)** socket. In this case, this is the lower memory socket (the socket closest to the mainboard).

6. The RAM module(s) 8 will pop-up (*Figure 6d*), 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**).
12. Restart the computer to allow the BIOS to register the new memory configuration as it starts up.

8. RAM Module(s)

Removing and Installing the Processor

Processor Removal Procedure

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 9](#)).
2. The CPU heat sink will be visible at point **A** on the mainboard.
3. Loosen the CPU heat sink screws in the order **4**, **3**, **2** & **1** (the reverse order as indicated on the label).
4. Carefully lift up the heat sink **B** ([Figure 7c](#)) off the computer.

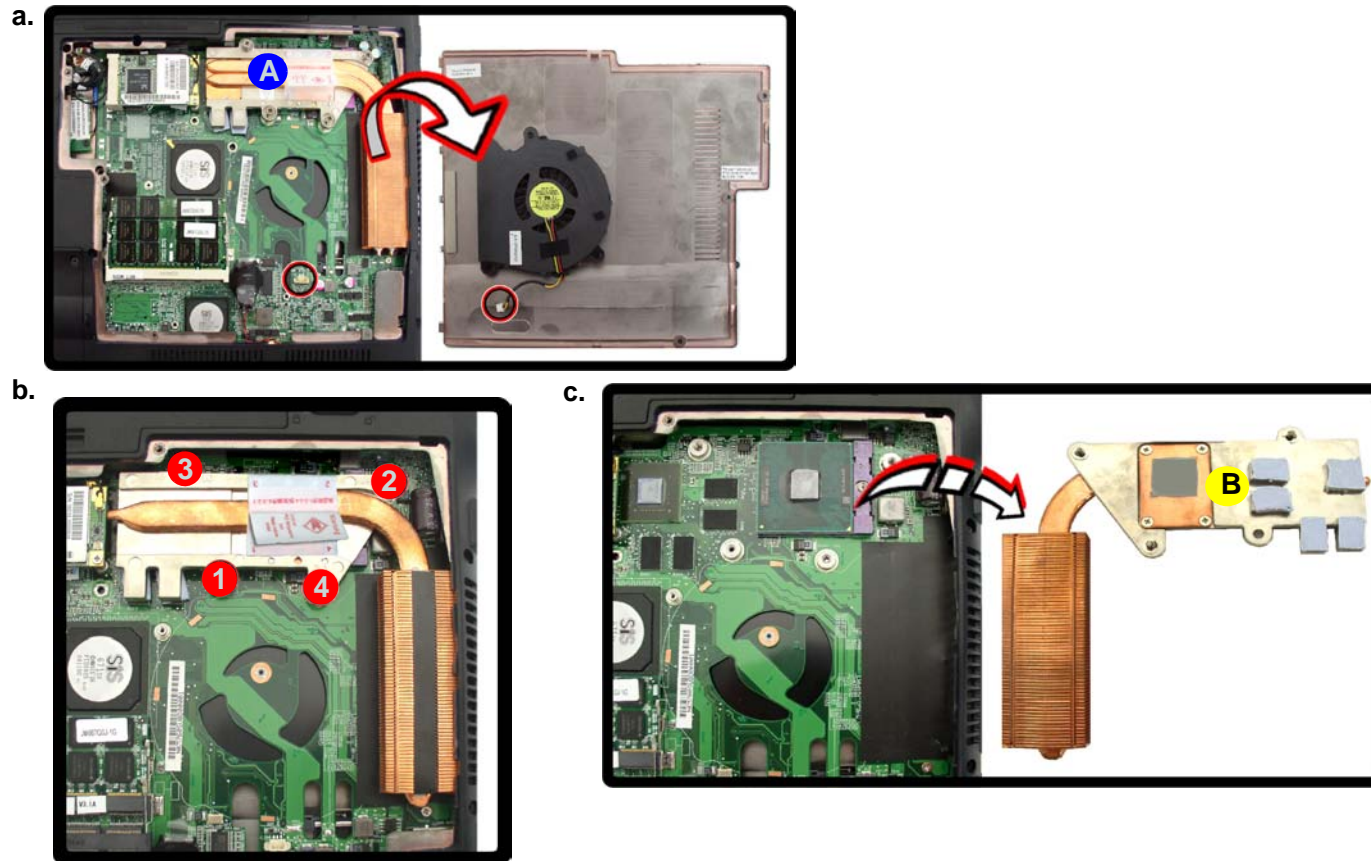



Figure 7
Processor Removal


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


B. Heat Sink
• 4 Screws

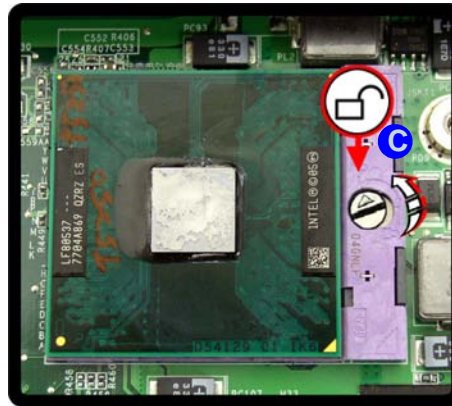
Disassembly

Figure 8
Processor Removal
(cont'd)

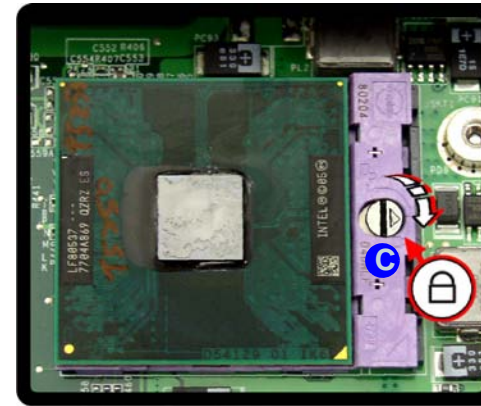
- d. Turn the release latch to unlock the CPU.
e. Lift the CPU out of the socket.

5. Turn the release latch **C** towards the unlock symbol , to release the CPU (*Figure 8d*).
6. Carefully (it may be hot) lift the CPU **D** up out of the socket (*Figure 8e*).
7. See [page 2 - 13](#) for information on inserting a new CPU.
8. When re-inserting the CPU, pay careful attention to the pin alignment, it will fit only one way (DO NOT FORCE IT!).

d.

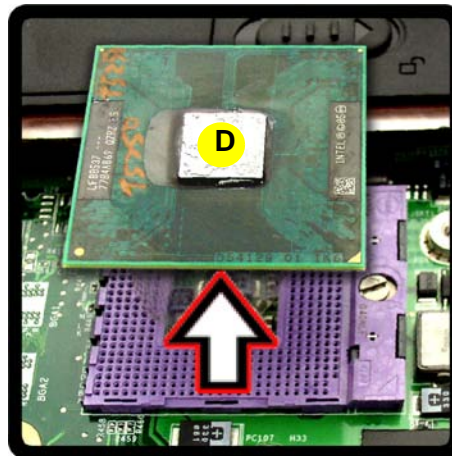


Unlock



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.



D. 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 9b*).
2. **Remove the sticker C** (*Figure 9c*) from the heat sink.
3. Insert the heat sink **D** as indicated in *Figure 9c*.
4. Tighten the CPU heat sink screws in the order **1**, **2**, **3**, & **4** (the order as indicated on the label).
5. Replace the component bay cover and tighten the screws (*page 2 - 9*).

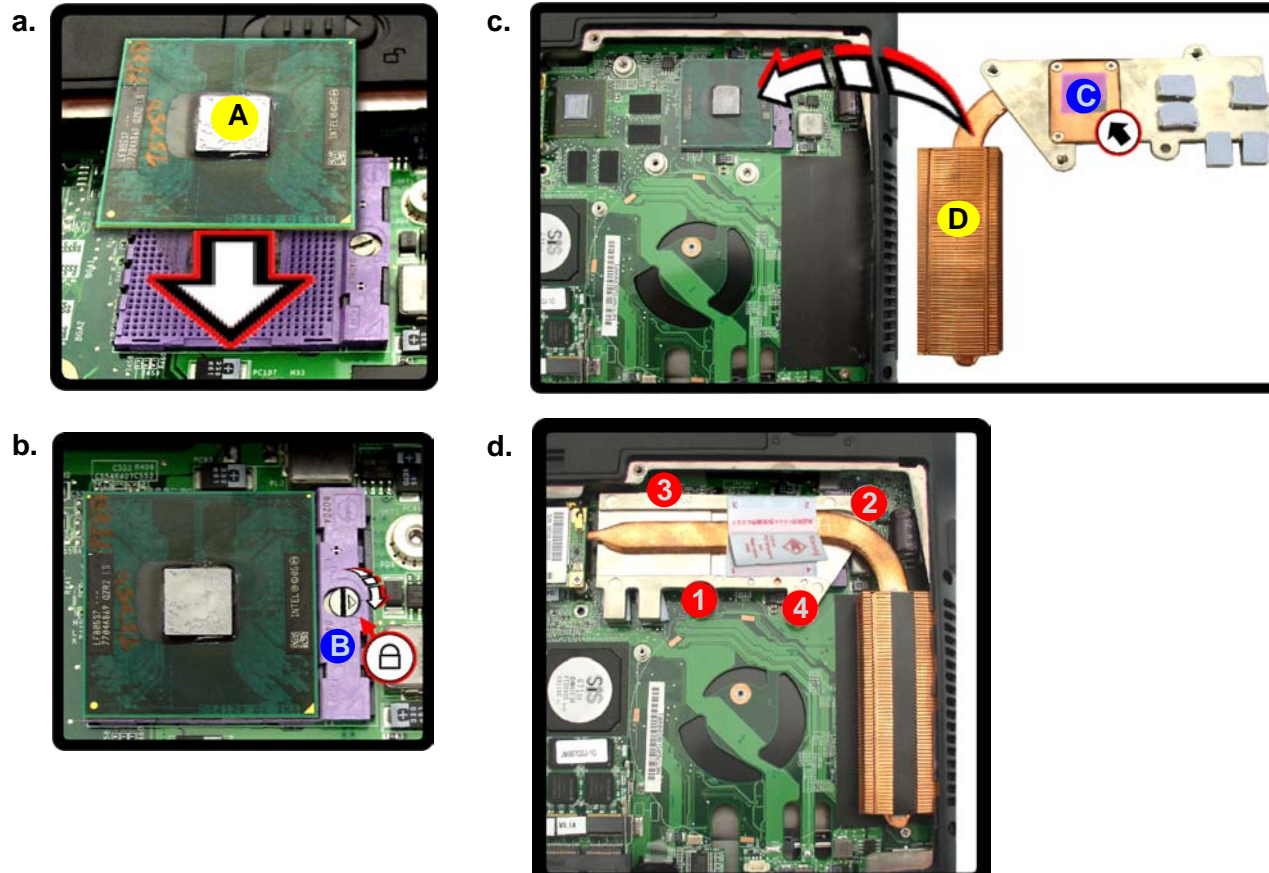



Figure 9
**Processor
Installation**

- 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.

- 
- A. CPU
D. Heat Sink
- 4 Screws

Disassembly

Figure 10
**Wireless LAN
Module Removal**

- Remove the cover.
- Disconnect the cable and remove the screw.
- The WLAN module will pop up.
- Lift the WLAN module out.

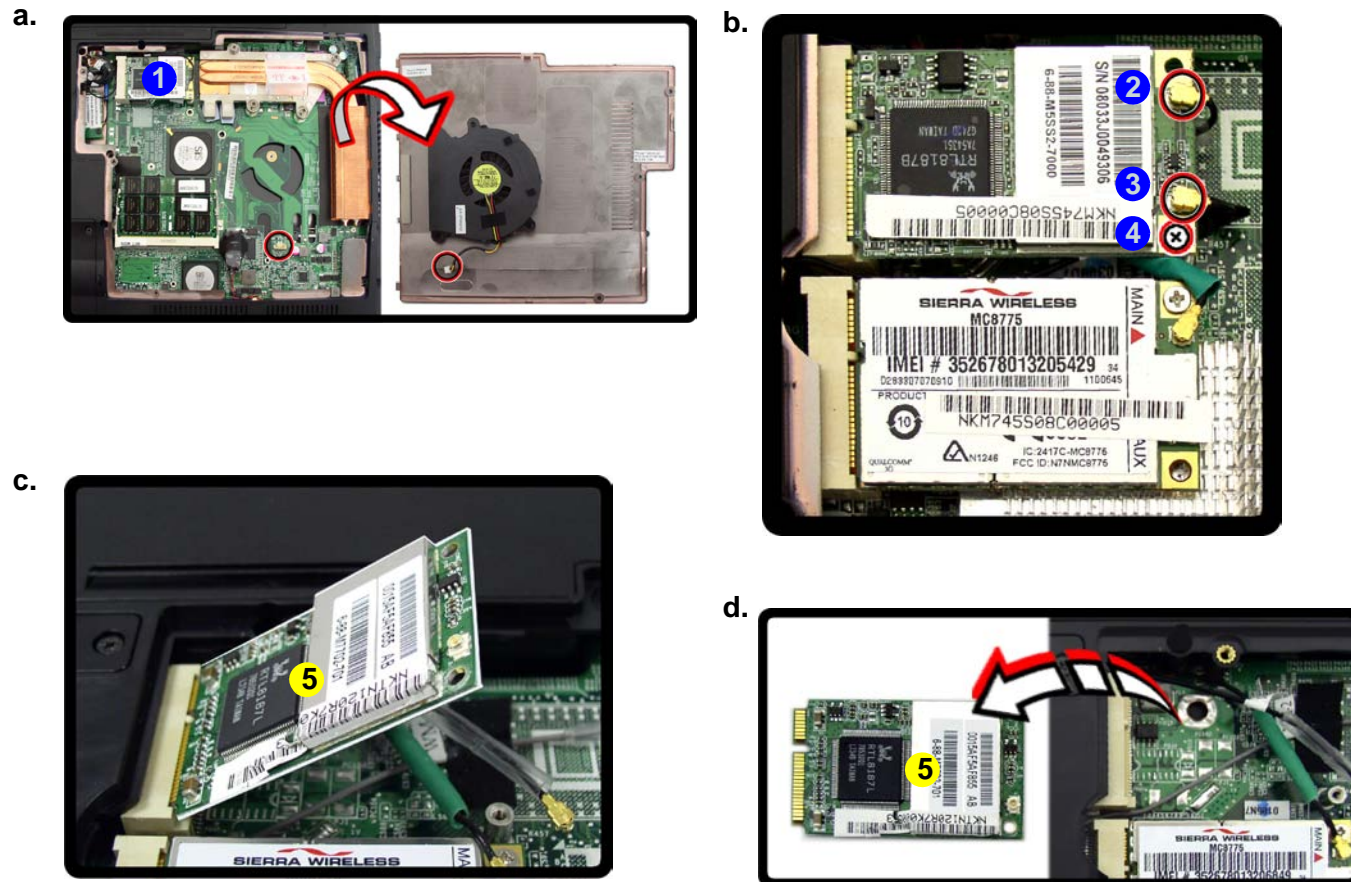
Note: Make sure you reconnect the antenna cable to "1" + "2" socket (*Figure b*).


5. WLAN Module.

- 1 Screw

Removing the Wireless LAN Module

- Turn **off** the computer, remove the battery (*page 2 - 5*) and the component bay cover (*page 2 - 9*).
- The Wireless LAN module will be visible at point **1** on the mainboard.
- Carefully disconnect cables **2** - **3**, then remove screw **4** from the module socket.
- The Wireless LAN module **5** will pop-up.
- Lift the Wireless LAN module (*Figure 10d*) up and off the computer.



Removing the Bluetooth Module

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 9](#)).
2. The Bluetooth will be visible at point **1** on the mainboard.
3. Remove the screw **2** and turn the module over.
4. Carefully separate the Bluetooth module from the connector **3** and disconnect the cable **4**.
5. Lift the Bluetooth module **5** ([Figure 11d](#)) up and off the computer.

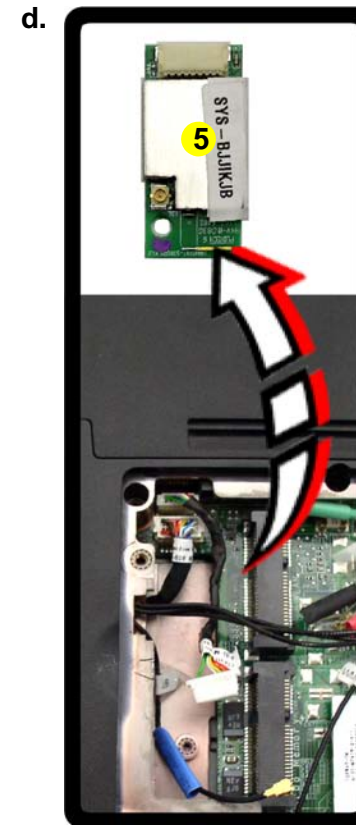
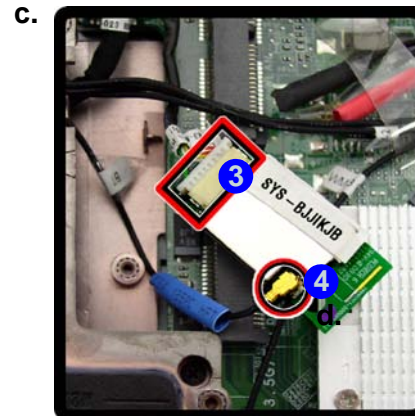
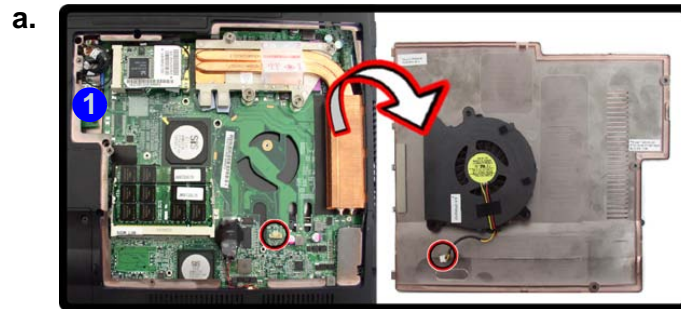


Figure 11
**Bluetooth Module
Removal**

- a. Remove the cover and locate the Bluetooth.
- b. Remove the screw.
- c. Disconnect the cable and the connector.
- d. Lift the Bluetooth module up off the socket.



5. Bluetooth Module

- 1 Screw

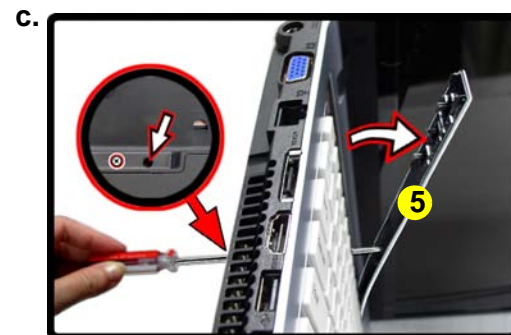
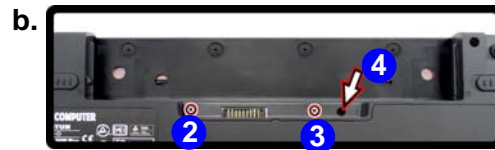
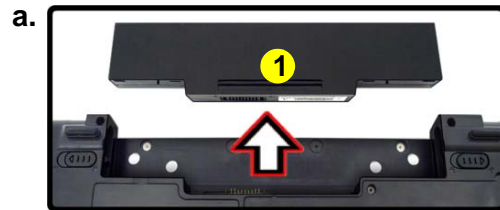
Disassembly

Removing the Keyboard

Figure 12

Keyboard Removal

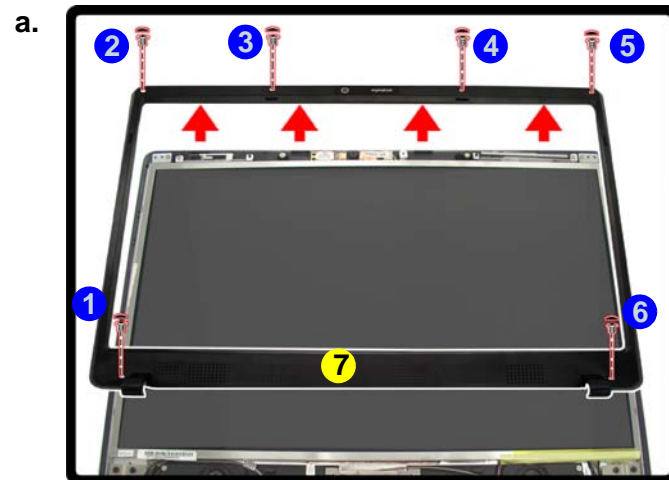
- a. Remove the battery.
 - b. Remove the screws and use a screwdriver to carefully push out the top cover module at point 4.
 - c. Remove the Top cover module.
 - d. Remove the screws.
 - e. Lift the keyboard up and disconnect the cable from the locking collar.
 - f. Remove the keyboard.
1. Turn **off** the computer.
 2. Remove the battery
 3. Remove the screws 2 - 3 and use a screwdriver to carefully push out the top cover module 5 at point 4.
 4. Remove the top cover module 5 and the screws 6 - 10 (Figure 12d),
 5. Carefully lift the keyboard 11 up, being careful not to bend the keyboard ribbon cable (Figure 12e).
 6. Disconnect the keyboard ribbon cable 12 from the locking collar socket 13.
 7. Carefully lift up the keyboard (Figure 12f) off the computer.



1. Battery
5. Top cover module
11. Keyboard

Removing the Inverter Board

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. Remove any rubber covers, screws **1** - **6** ([Figure 13a](#)), 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 [?\\$paratext>?](#) below).
4. Remove screw **8** ([Figure 13b](#)) from the inverter, and carefully lift the inverter board up slightly.
5. Disconnect cables **9** & **10** ([Figure 13c](#)) from the inverter, then remove the inverter **11** ([Figure 13d](#)) from the LCD back cover module.



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.

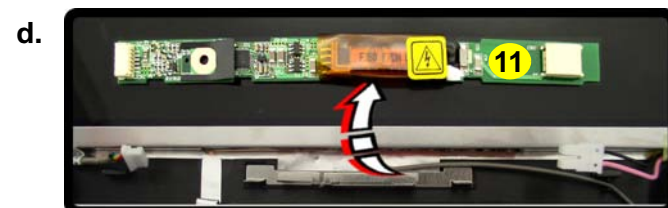
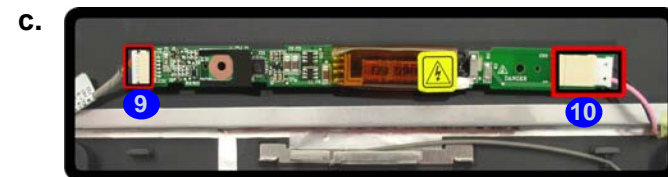


Figure 13
Inverter Board Removal

- a. Remove the 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.



7. LCD Front Panel
11. Inverter Board

- 6 Screws

Disassembly

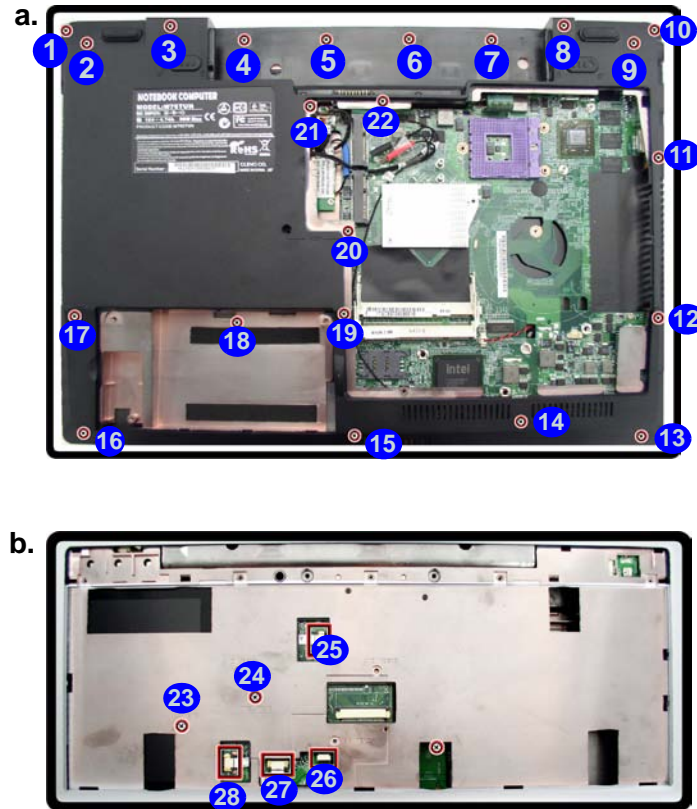
Figure 14

Modem Removal

- a. Remove the screws.
- b. Turn the computer over, remove the screws and disconnect the cable.

Removing the Modem

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)), HDD ([page 2 - 6](#)), component bay cover ([page 2 - 9](#)), optical device ([page 2 - 8](#)), CPU ([page 2 - 11](#)), bluetooth ([page 2 - 15](#)) and keyboard ([page 2 - 16](#)).
2. Remove screws ① - ②② from the bottom case.
3. Turn the computer over, remove screws ②③ - ②④ and disconnect cables ②⑤ - ②⑧ ([Figure 15b](#)).



- 24 Screws

4. Carefully lift the top case **29** up and off the computer (**Figure 15c**).
5. Remove screws **30** - **32** (**Figure 15d**) from the computer.
6. Remove screws **33** - **34** (**Figure 15e**) and disconnect the cable **35** from the modem module.
7. Lift the modem up and separate the modem from the connector **36**.
8. Lift the modem **37** off the computer.

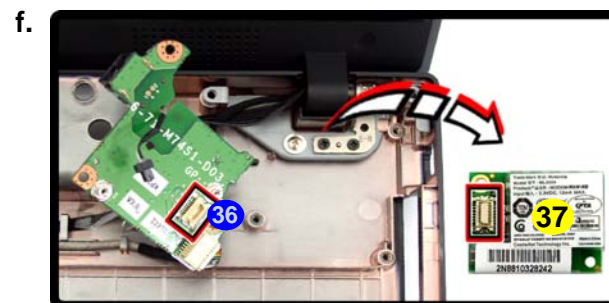
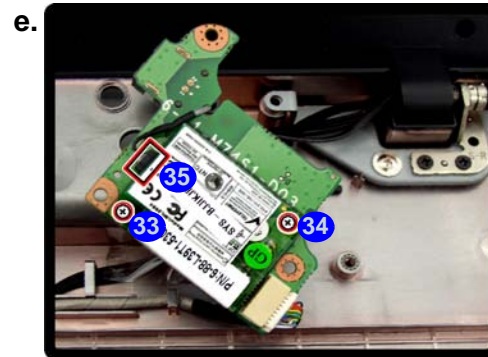
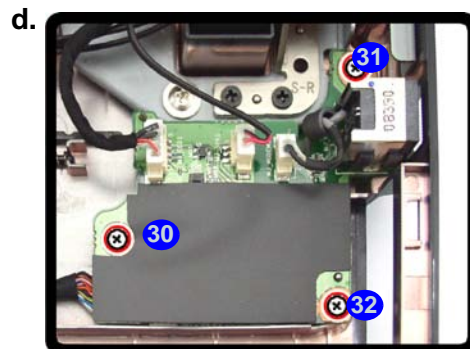
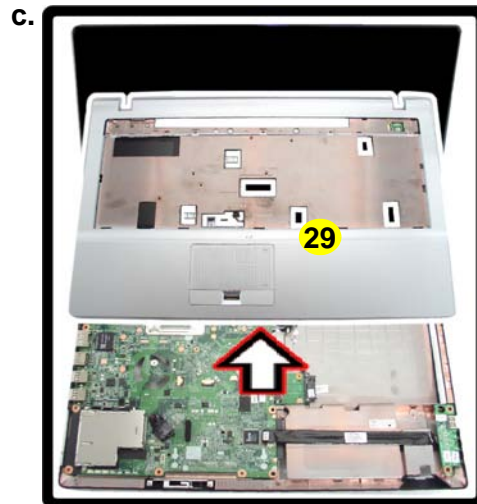


Figure 15
Modem Removal
(cont'd.)

- c. Lift the cover off the computer.
- d. Remove the screws.
- e. Remove the screws and disconnect the connector.
- f. Lift the modem out.



29. Top Case
37. Modem

- 5 Screws

Appendix A: Part Lists

This appendix breaks down the *W760SUA* 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**

Parts	
Top with Fingerprint	<i>page A - 3</i>
Top without Fingerprint	<i>page A - 4</i>
Bottom	<i>page A - 5</i>
LCD	<i>page A - 6</i>
HDD	<i>page A - 7</i>
DVD Super Multi	<i>page A - 8</i>

Top with Fingerprint

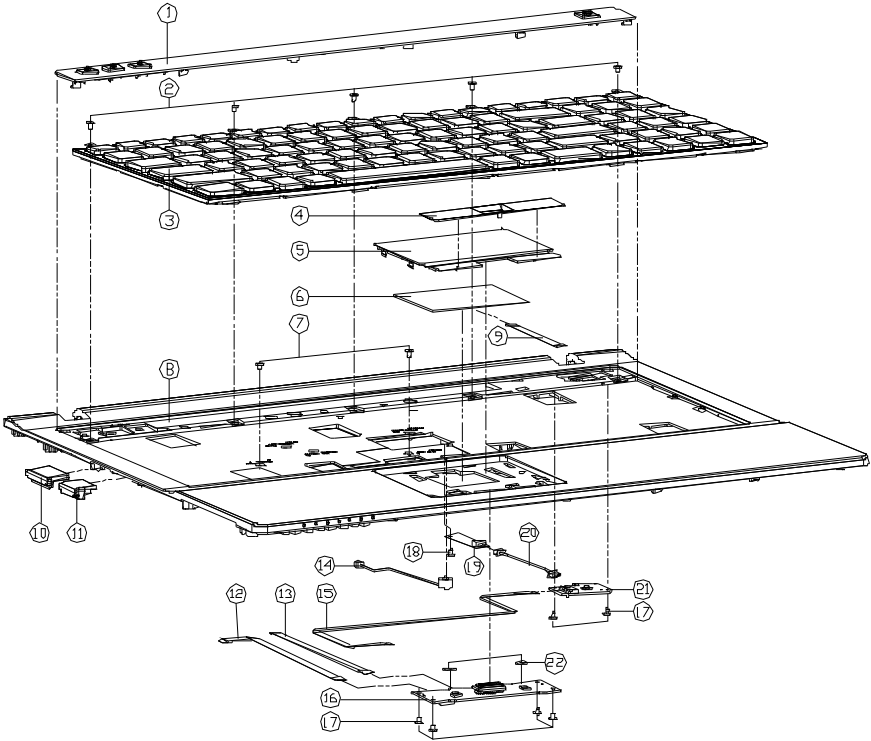
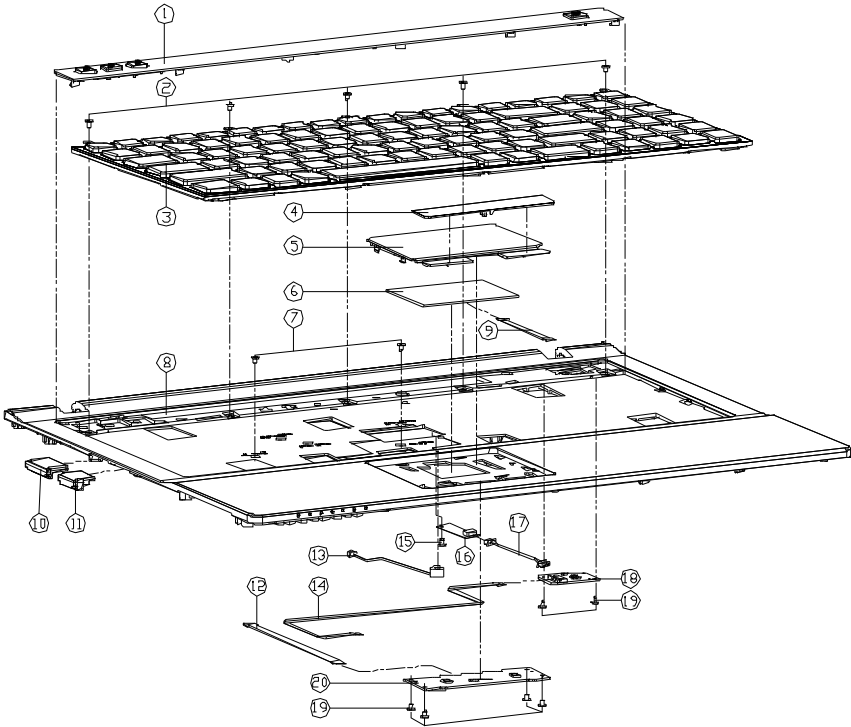


Figure A - 1
Top with
Fingerprint

ITEM	PART NAME	PART NO	REMARK
1	TOP COVER MODULE V7658	G-42-V7658-001	
2	KEYPAD V7658	G-35-V7658-001	
3	FINGERPRINT SENSOR V7658	G-79-V7658-001	
4	KEYPAD COVER V7658	G-42-V7658-001	
5	KEYPAD COVER V7658	G-42-V7658-001	
6	KEYPAD COVER V7658	G-42-V7658-001	
7	KEYPAD COVER V7658	G-42-V7658-001	
8	TOP CASE MODULE V7658	G-38-V7658-001	
9	TOP CASE MODULE V7658	G-38-V7658-001	
10	TOP CASE MODULE V7658	G-38-V7658-001	
11	KEYPAD RUBBER V7658	G-47-M7658-001	
12	KEYPAD RUBBER V7658	G-47-M7658-001	
13	KEYPAD RUBBER V7658	G-47-M7658-001	
14	KEYPAD RUBBER V7658	G-47-M7658-001	
15	KEYPAD RUBBER V7658	G-47-M7658-001	
16	KEYPAD RUBBER V7658	G-47-M7658-001	
17	KEYPAD RUBBER V7658	G-47-M7658-001	
18	KEYPAD RUBBER V7658	G-47-M7658-001	
19	KEYPAD RUBBER V7658	G-47-M7658-001	
20	KEYPAD RUBBER V7658	G-47-M7658-001	
21	KEYPAD RUBBER V7658	G-47-M7658-001	
22	KEYPAD RUBBER V7658	G-47-M7658-001	

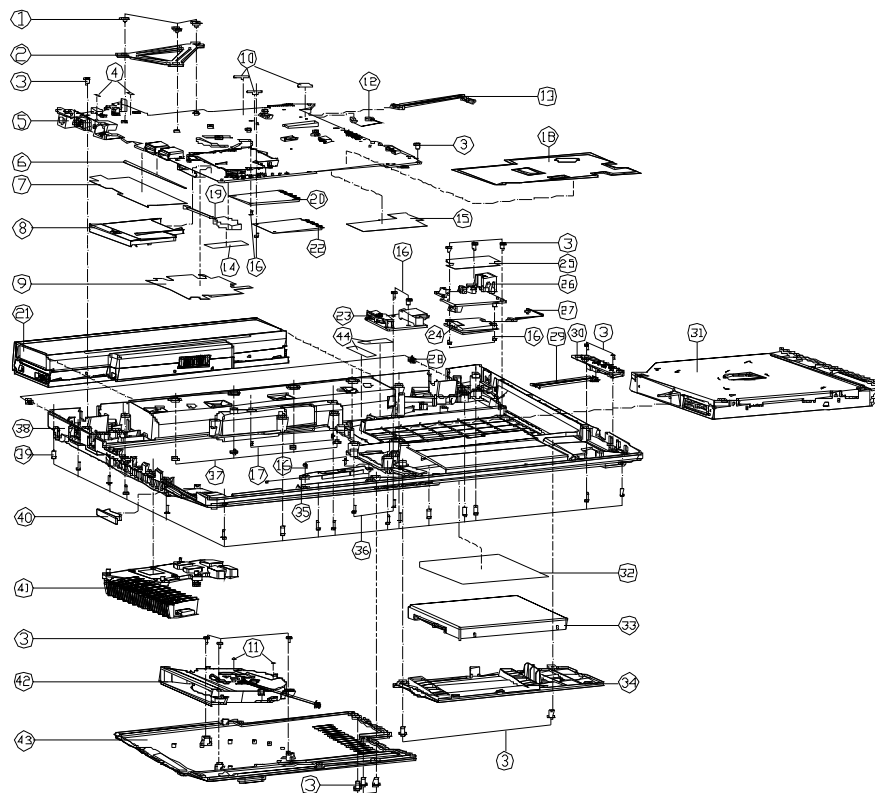
Top without Fingerprint

Figure A - 2
Top without
Fingerprint



ITEM	PART NAME	PART NO	REMARK
1	TOP COVER MODULE	G-42-V7658-001	
2	KEYBOARD	G-42-V7658-001	
3	KEYBOARD	G-42-V7658-001	
4	KEYBOARD	G-42-V7658-001	
5	KEYBOARD	G-42-V7658-001	
6	KEYBOARD	G-42-V7658-001	
7	KEYBOARD	G-42-V7658-001	
8	TOP CASE MODULE	G-42-V7658-001	
9	TOP CASE MODULE	G-42-V7658-001	
10	KEYBOARD	G-42-V7658-001	
11	KEYBOARD	G-42-V7658-001	
12	KEYBOARD	G-42-V7658-001	
13	KEYBOARD	G-42-V7658-001	
14	KEYBOARD	G-42-V7658-001	
15	KEYBOARD	G-42-V7658-001	
16	KEYBOARD	G-42-V7658-001	
17	KEYBOARD	G-42-V7658-001	
18	KEYBOARD	G-42-V7658-001	
19	KEYBOARD	G-42-V7658-001	
20	KEYBOARD	G-42-V7658-001	

Bottom

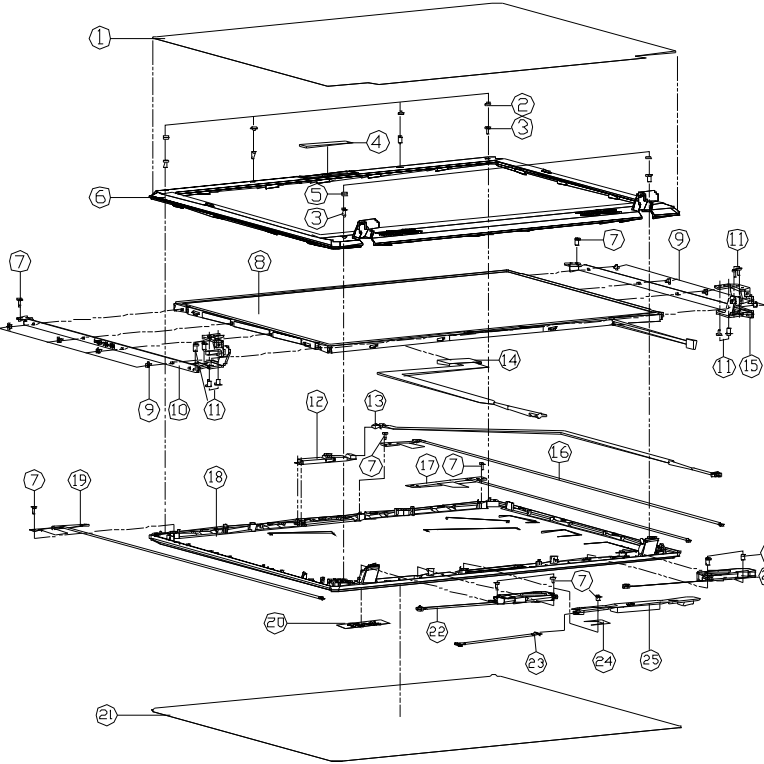


ITEM	PART NAME	PART NO.	REMARK
1	CONV SPRING R. MOBILE A. 177000	6-35-48925-305	
2	CONV SPRING R. MOBILE A. 177000	6-35-47468-109	
3	CONV. NUT L. 177000	6-35-36475-59	
4	WHL 36x54x10 (36x54x10) 177000	6-43-W4088-330	
5	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300A	BL EJECT
6	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300B	BL EJECT
7	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300C	BL EJECT
8	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300D	BL EJECT
9	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300E	BL EJECT
10	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300F	BL EJECT
11	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300G	BL EJECT
12	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300H	BL EJECT
13	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300I	BL EJECT
14	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300J	BL EJECT
15	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300K	BL EJECT
16	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300L	BL EJECT
17	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300M	BL EJECT
18	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300N	BL EJECT
19	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300O	BL EJECT
20	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300P	BL EJECT
21	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300Q	BL EJECT
22	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300R	BL EJECT
23	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300S	BL EJECT
24	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300T	BL EJECT
25	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300U	BL EJECT
26	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300V	BL EJECT
27	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300W	BL EJECT
28	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300X	BL EJECT
29	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300Y	BL EJECT
30	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300Z	BL EJECT
31	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300A	BL EJECT
32	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300B	BL EJECT
33	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300C	BL EJECT
34	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300D	BL EJECT
35	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300E	BL EJECT
36	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300F	BL EJECT
37	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300G	BL EJECT
38	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300H	BL EJECT
39	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300I	BL EJECT
40	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300J	BL EJECT
41	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300K	BL EJECT
42	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300L	BL EJECT
43	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300M	BL EJECT
44	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300N	BL EJECT
45	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300O	BL EJECT
46	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300P	BL EJECT
47	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300Q	BL EJECT
48	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300R	BL EJECT
49	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300S	BL EJECT
50	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300T	BL EJECT
51	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300U	BL EJECT
52	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300V	BL EJECT
53	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300W	BL EJECT
54	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300X	BL EJECT
55	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300Y	BL EJECT
56	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300Z	BL EJECT
57	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300A	BL EJECT
58	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300B	BL EJECT
59	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300C	BL EJECT
60	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300D	BL EJECT
61	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300E	BL EJECT
62	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300F	BL EJECT
63	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300G	BL EJECT
64	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300H	BL EJECT
65	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300I	BL EJECT
66	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300J	BL EJECT
67	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300K	BL EJECT
68	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300L	BL EJECT
69	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300M	BL EJECT
70	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300N	BL EJECT
71	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300O	BL EJECT
72	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300P	BL EJECT
73	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300Q	BL EJECT
74	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300R	BL EJECT
75	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300S	BL EJECT
76	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300T	BL EJECT
77	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300U	BL EJECT
78	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300V	BL EJECT
79	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300W	BL EJECT
80	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300X	BL EJECT
81	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300Y	BL EJECT
82	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300Z	BL EJECT
83	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300A	BL EJECT
84	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300B	BL EJECT
85	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300C	BL EJECT
86	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300D	BL EJECT
87	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300E	BL EJECT
88	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300F	BL EJECT
89	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300G	BL EJECT
90	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300H	BL EJECT
91	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300I	BL EJECT
92	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300J	BL EJECT
93	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300K	BL EJECT
94	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300L	BL EJECT
95	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300M	BL EJECT
96	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300N	BL EJECT
97	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300O	BL EJECT
98	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300P	BL EJECT
99	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300Q	BL EJECT
100	WHL 36x54x10 (36x54x10) 177000	6-77-V7166-300R	BL EJECT

Figure A - 3
Bottom

LCD

Figure A - 4
LCD



ITEM	PART NAME	PART NO.	REMARK
1	LCD PROTECT FILM	17-7651-041	
2	LCD FRONT COVER MODULE	17-7651-050	
3	SIDEY MODULE (L/R)	17-7651-050	
4	CCD LINES (P/N)	17-7651-050	
5	CCD LINES (P/N)	17-7651-050	
6	LCD FRONT COVER MODULE	17-7651-050	
7	LCD FRONT COVER MODULE	17-7651-050	
8	LCD FRONT COVER MODULE	17-7651-050	
9	LCD FRONT COVER MODULE	17-7651-050	
10	LCD FRONT COVER MODULE	17-7651-050	
11	LCD FRONT COVER MODULE	17-7651-050	
12	LCD FRONT COVER MODULE	17-7651-050	
13	LCD FRONT COVER MODULE	17-7651-050	
14	LCD FRONT COVER MODULE	17-7651-050	
15	LCD FRONT COVER MODULE	17-7651-050	
16	LCD FRONT COVER MODULE	17-7651-050	
17	LCD FRONT COVER MODULE	17-7651-050	
18	LCD FRONT COVER MODULE	17-7651-050	
19	LCD FRONT COVER MODULE	17-7651-050	
20	LCD FRONT COVER MODULE	17-7651-050	
21	LCD FRONT COVER MODULE	17-7651-050	
22	LCD FRONT COVER MODULE	17-7651-050	
23	LCD FRONT COVER MODULE	17-7651-050	
24	LCD FRONT COVER MODULE	17-7651-050	
25	LCD FRONT COVER MODULE	17-7651-050	

HDD

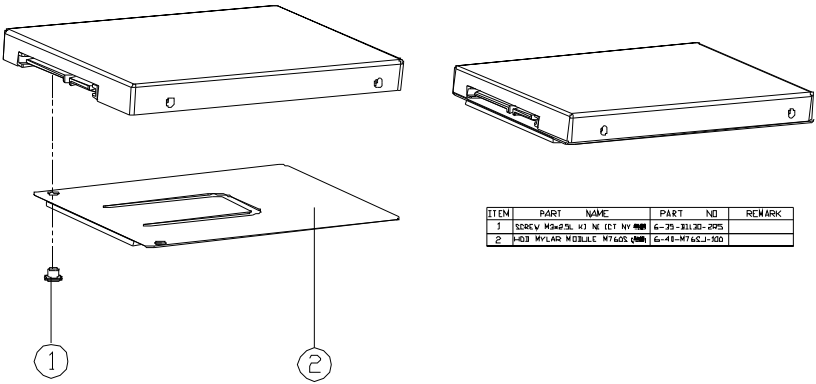
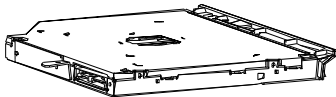
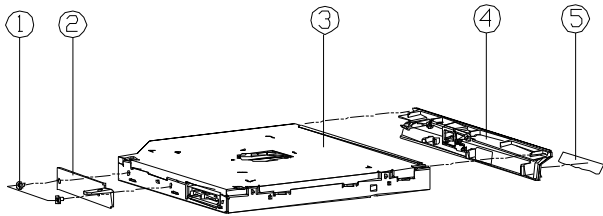


Figure A - 5
HDD

Part Lists

DVD Super Multi

Figure A - 6
DVD Super Multi



ITEM	PART NAME	PART NO	REMARK
1	CD-ROM BAY VECT. REC. UNIT (LT-PN) (V766Z-001-001)	V766Z-001-001	
2	CD-ROM BAY VECT. REC. UNIT (LT-PN) (V766Z-001-001)	V766Z-001-001	
3	DATA DVD SUPER MULTI 5 VZ 24X 48 (V766Z-001-001)	V766Z-001-001	FOR H.L.D.S
4	DATA DVD SUPER MULTI 5 VZ 24X 48 (V766Z-001-001)	V766Z-001-001	FOR T.S.S.T
5	DATA DVD SUPER MULTI 5 VZ 24X 48 (V766Z-001-001)	V766Z-001-001	

Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the **W760SUA** 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>External VGA M92-S2-7 - Page B - 19</i>	<i>System Power - Page B - 36</i>
<i>Penryn (Socket-P)1/2 - Page B - 3</i>	<i>Panel, CRT - Page B - 20</i>	<i>AC-In, Charger - Page B - 37</i>
<i>Penryn (Socket-P) 2/2 - Page B - 4</i>	<i>Inverter, BT, Fan - Page B - 21</i>	<i>VCore - Page B - 38</i>
<i>SiS671DX - Host, PCIE 1/5 - Page B - 5</i>	<i>968 - PCI, IDE, MuTIOL, SPI 1/4 - Page B - 22</i>	<i>VDD3, VDD5 - Page B - 39</i>
<i>SiS671DX - DRAM 2/5 - Page B - 6</i>	<i>968 - PCIE, LAN, GPIO 2/4 - Page B - 23</i>	<i>1.05VS, 1.2V, 1.5V - Page B - 40</i>
<i>SiS671DX - MuTIOL 3/5 - Page B - 7</i>	<i>968 - USB, SATA 3/4 - Page B - 24</i>	<i>1.8V, 0.9VS - Page B - 41</i>
<i>SiS671DX - PWR 4/5 - Page B - 8</i>	<i>968 - PWR GND 4/4 - Page B - 25</i>	<i>VGA M92-S2 Power - Page B - 42</i>
<i>SiS671DX - GND 5/5 - Page B - 9</i>	<i>Clock Gen & Clock Buffer - Page B - 26</i>	<i>Click Finger Board for M76 - Page B - 43</i>
<i>DDR2 SO-DIMM_1 - Page B - 10</i>	<i>PHY Realtek 8201CL - Page B - 27</i>	<i>Multi-Function Board - Page B - 44</i>
<i>DDR2 SO-DIMM_2 - Page B - 11</i>	<i>KBC-ITE IT8512E - Page B - 28</i>	<i>Audio Board - Page B - 45</i>
<i>SiS307ELV - Page B - 12</i>	<i>JMB385 Card Reader - Page B - 29</i>	<i>Finger Sensor Board - Page B - 46</i>
<i>External VGA M92-S2-1 - Page B - 13</i>	<i>Audio Codec ALC662 - Page B - 30</i>	<i>Power Switch Board for M74 - Page B - 47</i>
<i>External VGA M92-S2-2 - Page B - 14</i>	<i>Audio AMP TPA6047A4 - Page B - 31</i>	<i>External ODD Board for M74 - Page B - 48</i>
<i>External VGA M92-S2-3 - Page B - 15</i>	<i>SATA HDD, Power Good, LID - Page B - 32</i>	<i>Finger Board for M74 - Page B - 49</i>
<i>External VGA M92-S2-4 - Page B - 16</i>	<i>Multi I/O, ODD, 3G, Click M74 - Page B - 33</i>	<i>Power Switch Board for M76 - Page B - 50</i>
<i>External VGA M92-S2-5 - Page B - 17</i>	<i>New Card, Mini PCIE, USB - Page B - 34</i>	<i>External ODD Board for W76 - Page B - 51</i>
<i>External VGA M92-S2-6 - Page B - 18</i>	<i>LED, PC Beep, TP, FP - Page B - 35</i>	

Table B - 1
**Schematic
Diagrams**

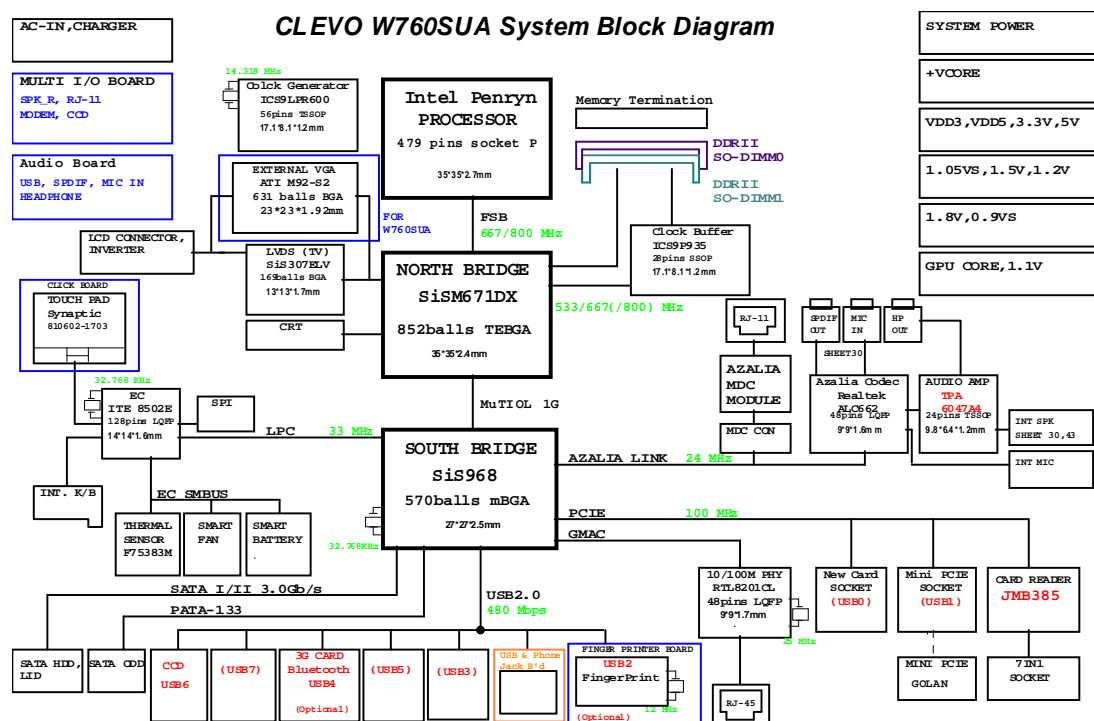


Version Note

The schematic diagrams in this chapter are based upon version 6-7P-W76AA-002. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

System Block Diagram

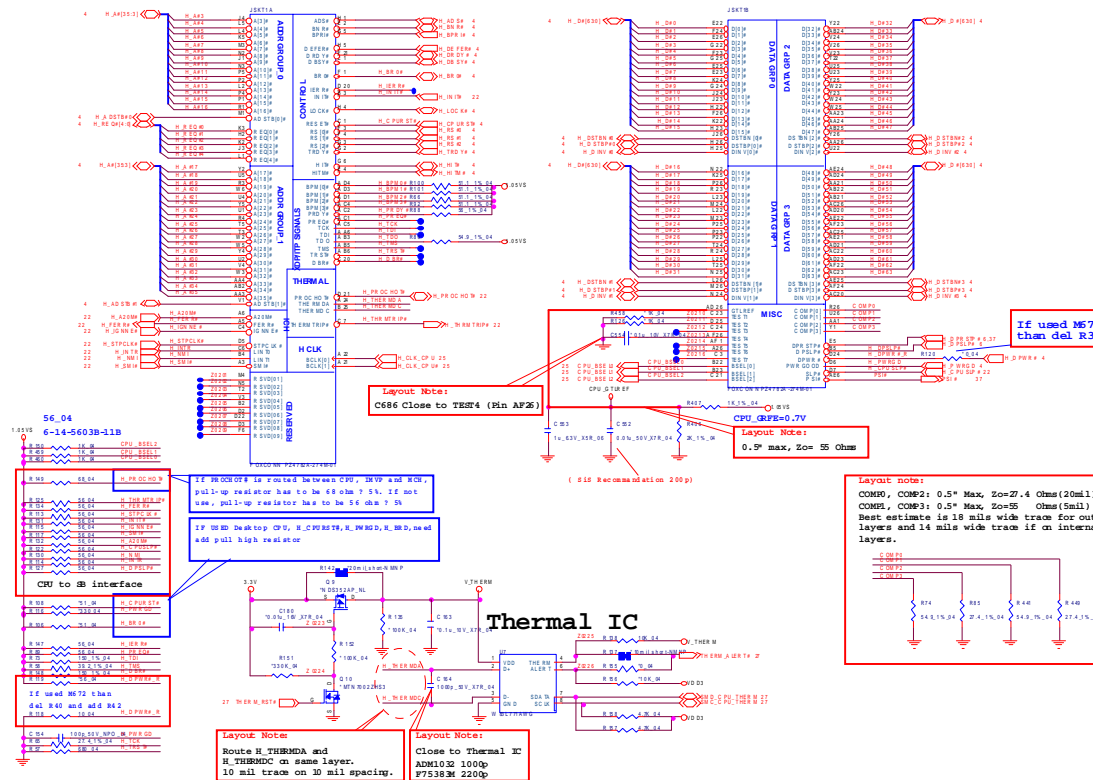
B.Schematic Diagrams



Penryn (Socket-P)1/2

Sheet 2 of 50
Penryn (Socket-P)
1/2

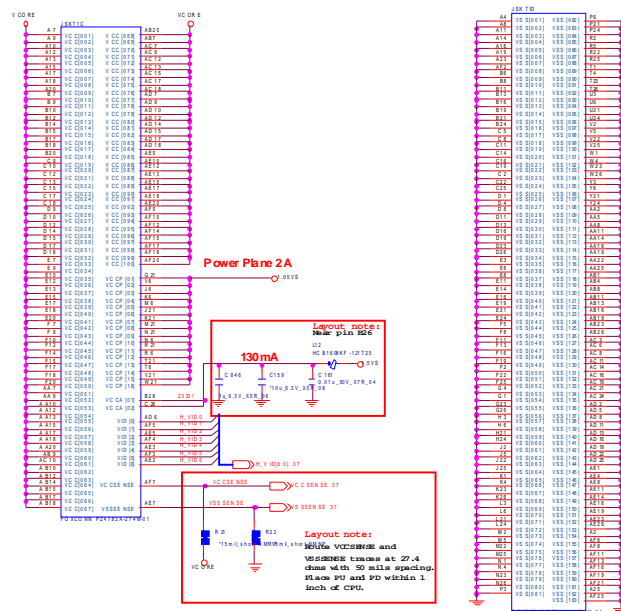
B.Schematic Diagrams



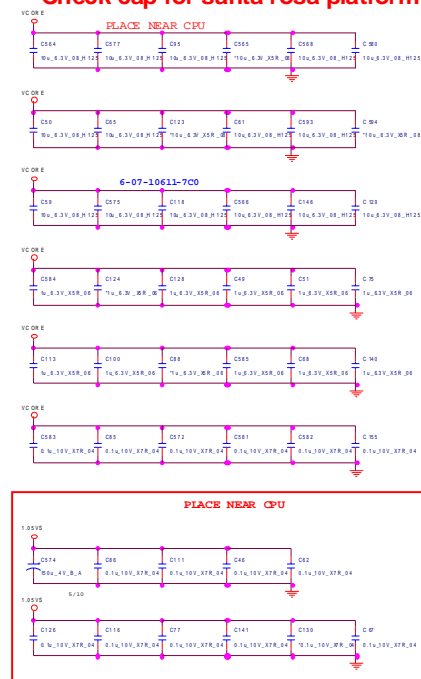
Penryn (Socket-P) 2/2

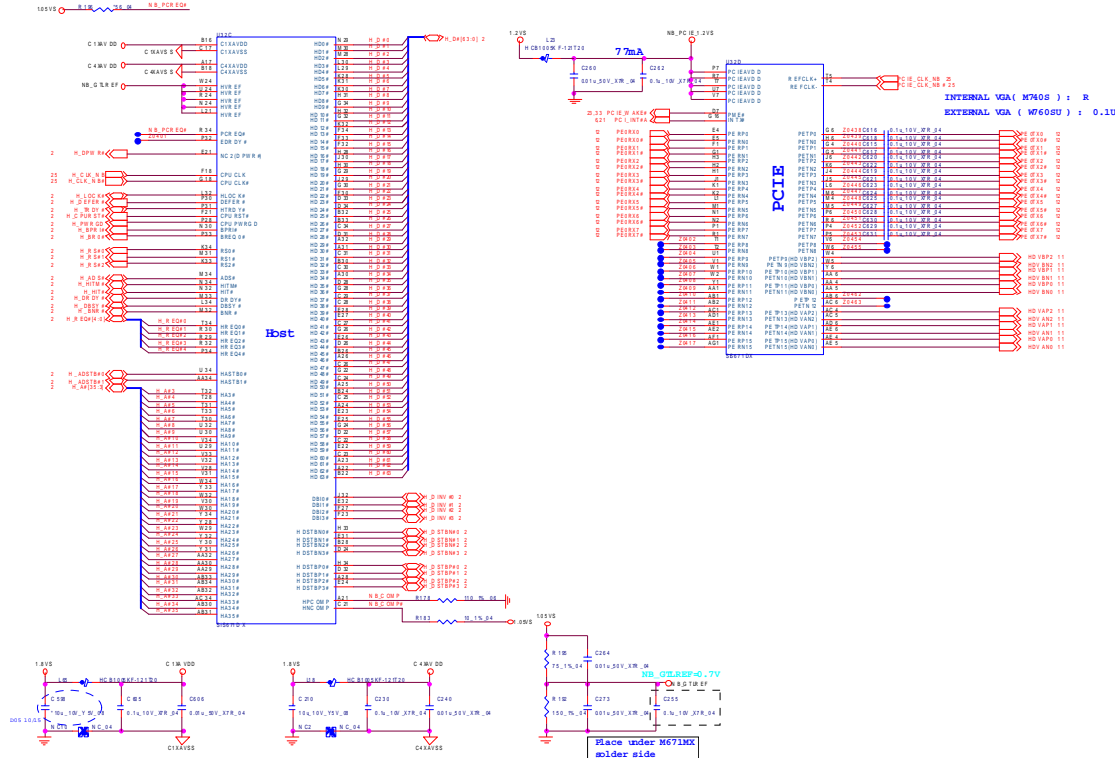
B.Schematic Diagrams

Sheet 3 of 50
Penryn (Socket-P)
2/2



Check cap for santa rosa platform

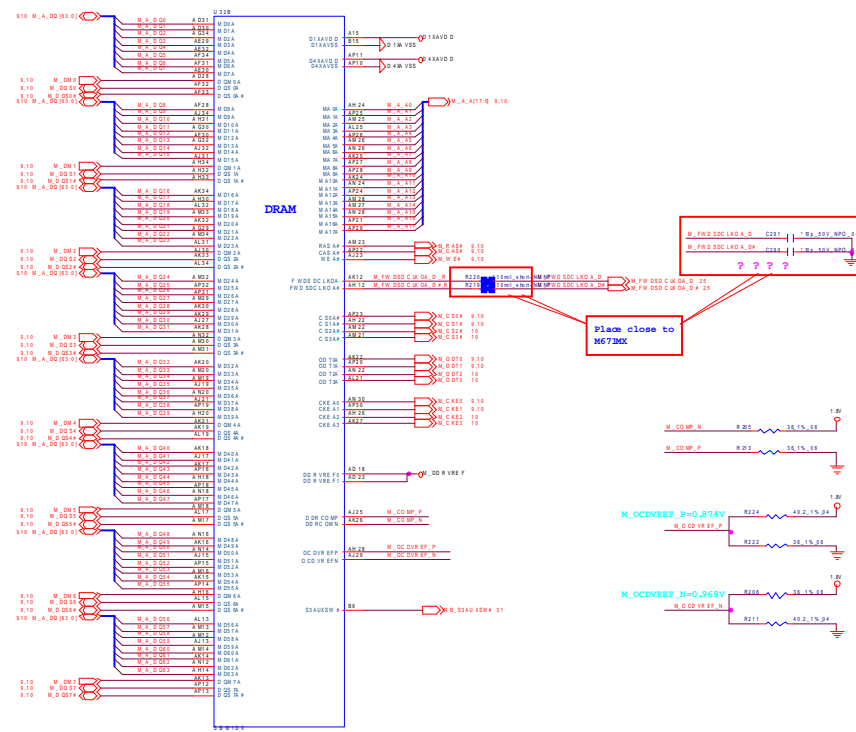
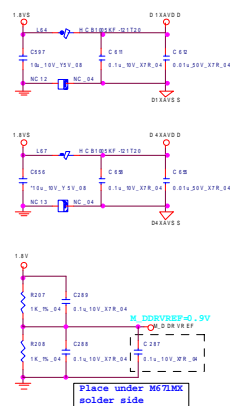




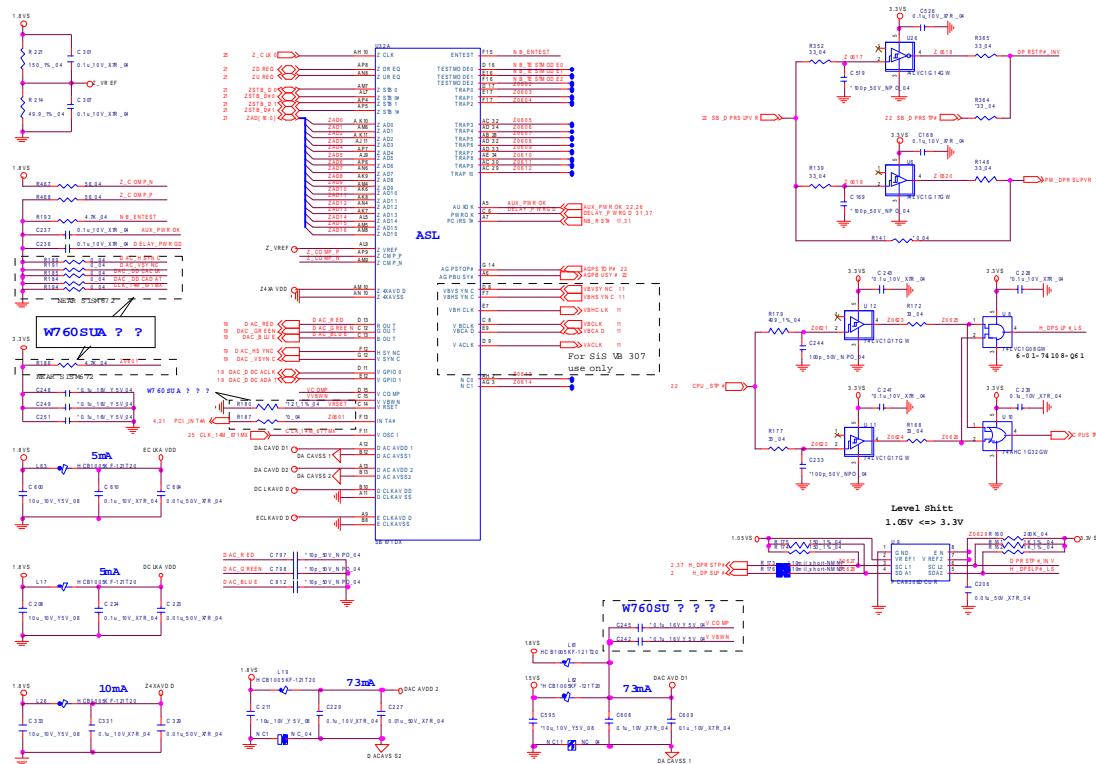
SiS671DX - DRAM 2/5

B.Schematic Diagrams

Sheet 5 of 50
SiS671DX - DRAM
2/5

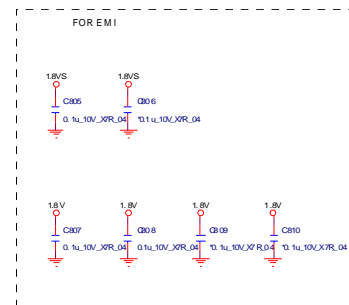
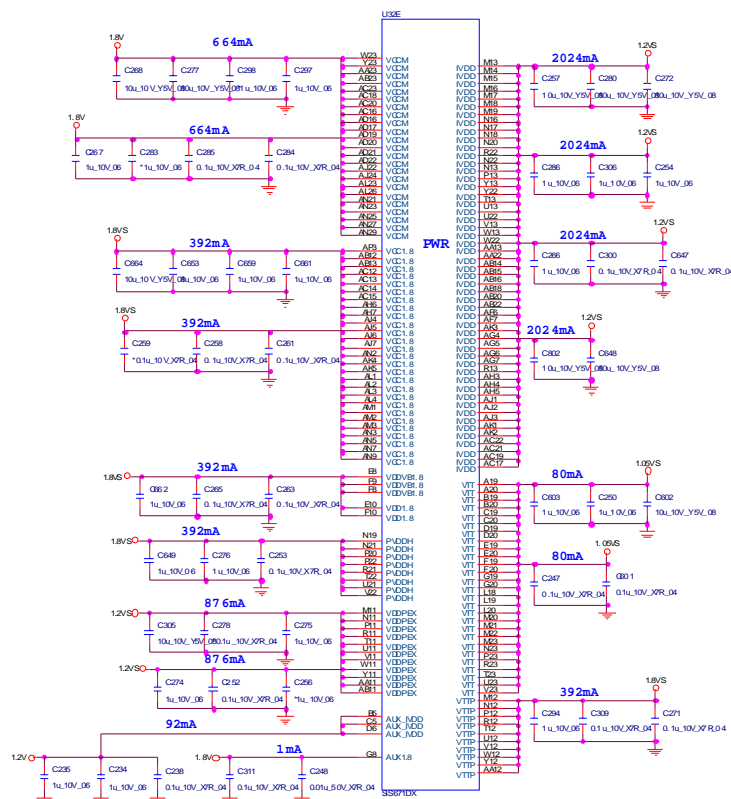


SiS671DX - MuTIOL 3/5

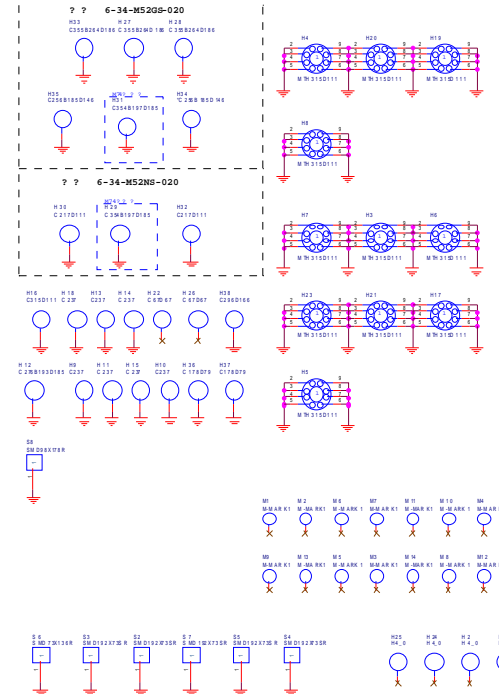
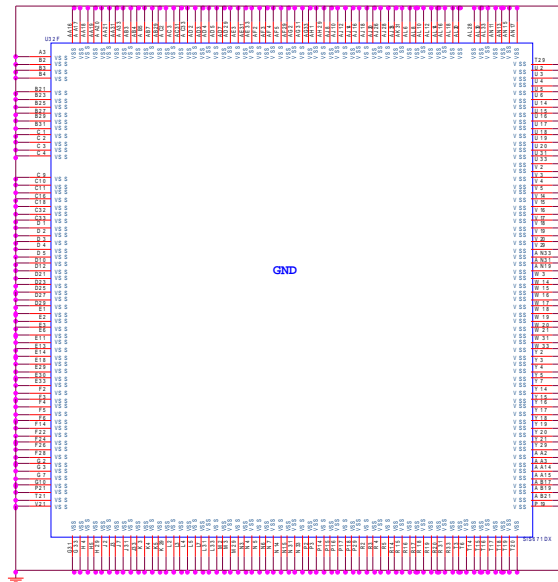


Sheet 6 of 50
SiS671DX -
MuTITOL 3/5

Sheet 7 of 50
SiS671DX PWR 4/5



SiS671DX - GND 5/5



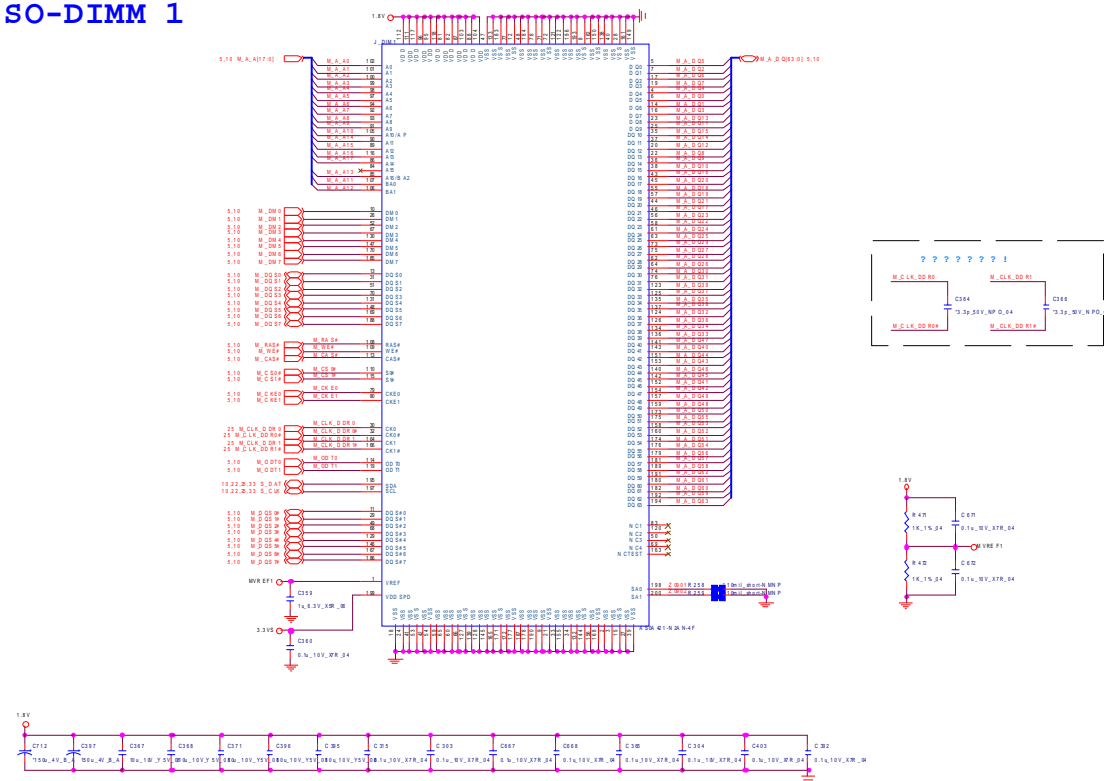
Sheet 8 of 50
SiS671DX GND 5/5

DDR2 SO-DIMM_1

B.Schematic Diagrams

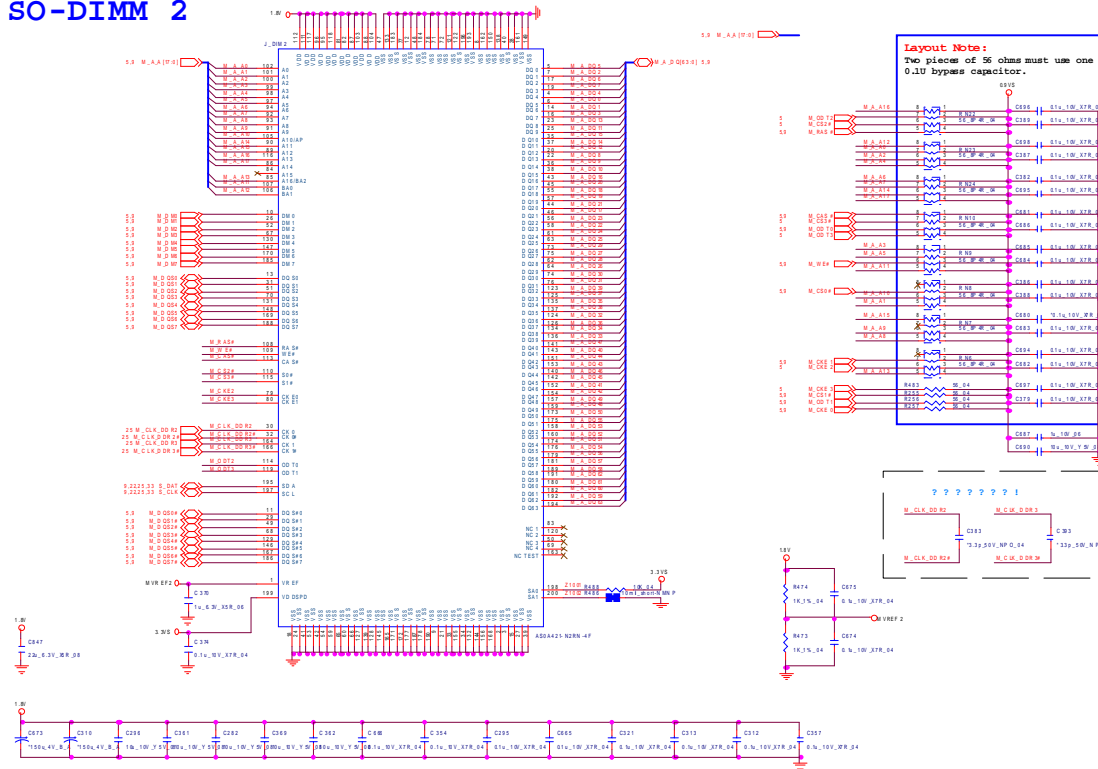
Sheet 9 of 50
DDR2 SO-DIMM_1

SO-DIMM 1



DDR2 SO-DIMM_2

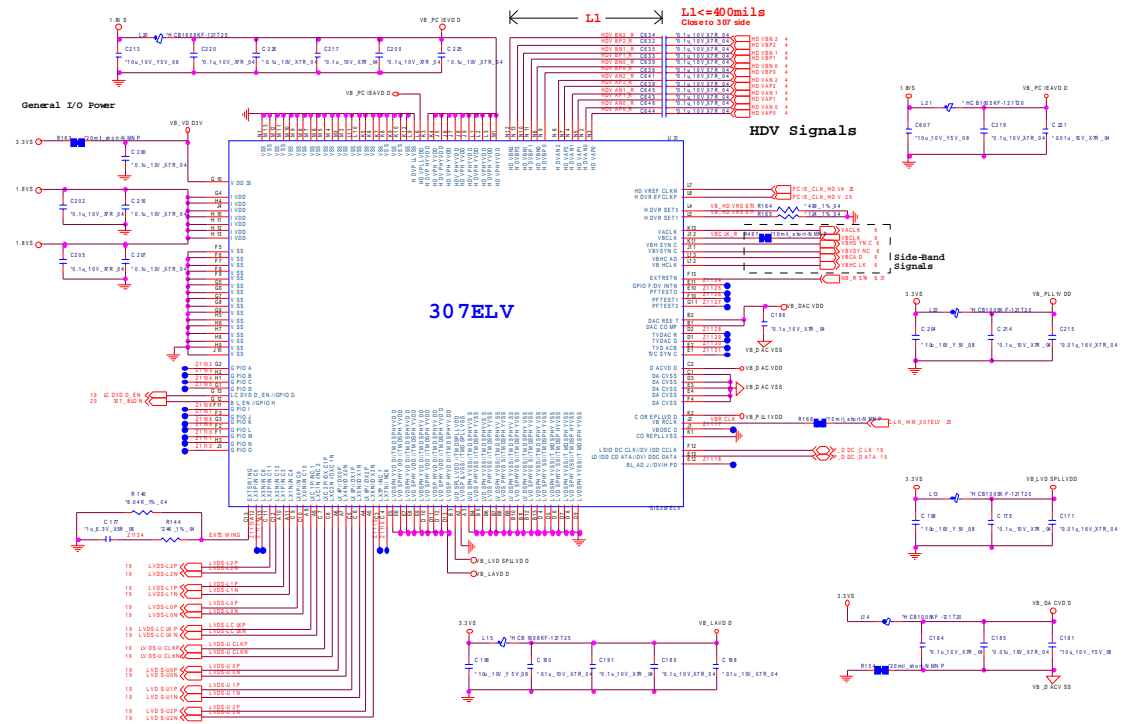
SO-DIMM 2

Sheet 10 of 50
DDR2 SO-DIMM_2

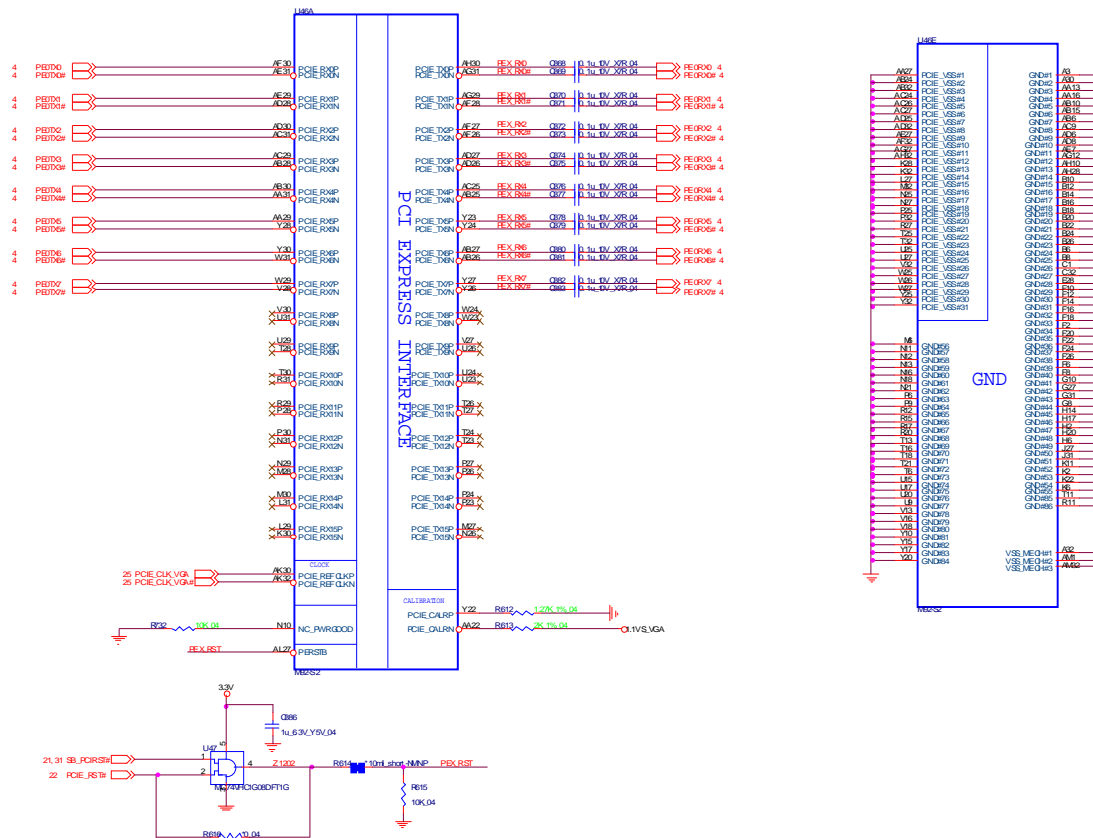
Schematic Diagrams

SiS307ELV

Sheet 11 of 50
SiS307ELV



External VGA M92-S2-1

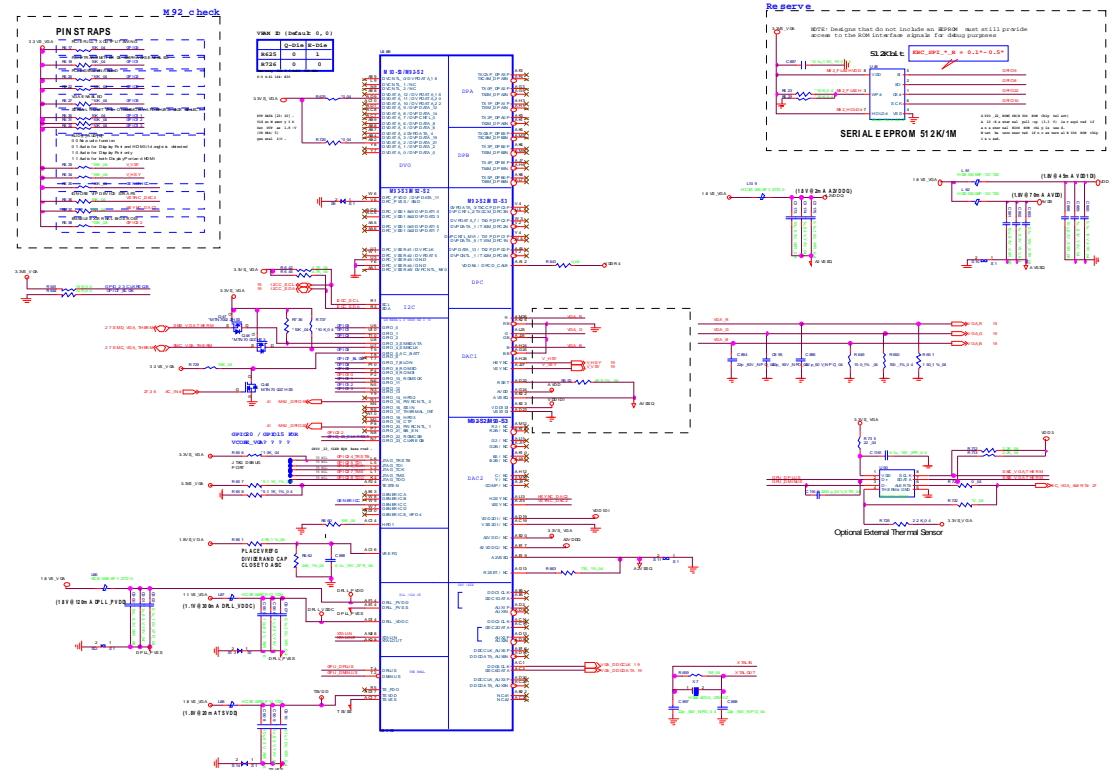


Sheet 12 of 50
External VGA M92-S2-1

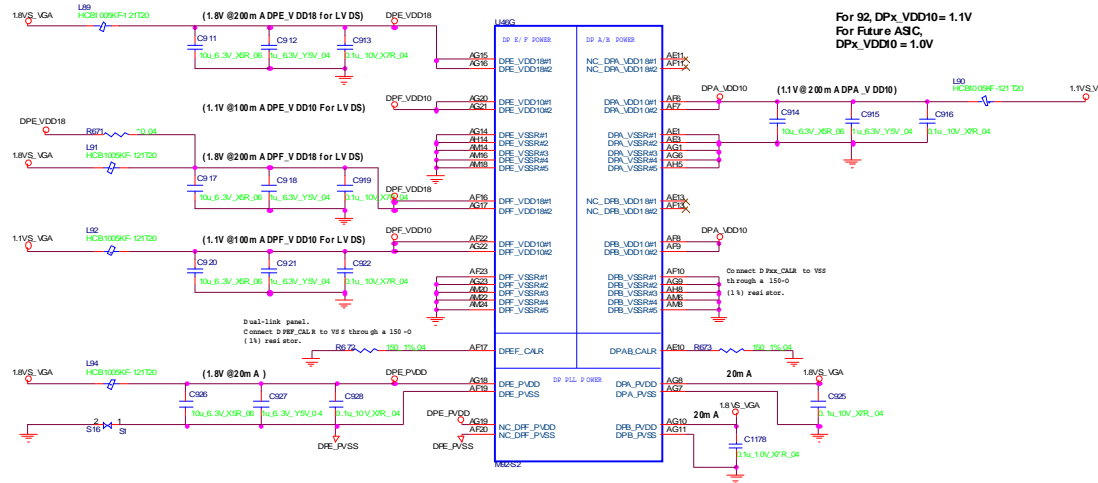
Schematic Diagrams

External VGA M92-S2-2

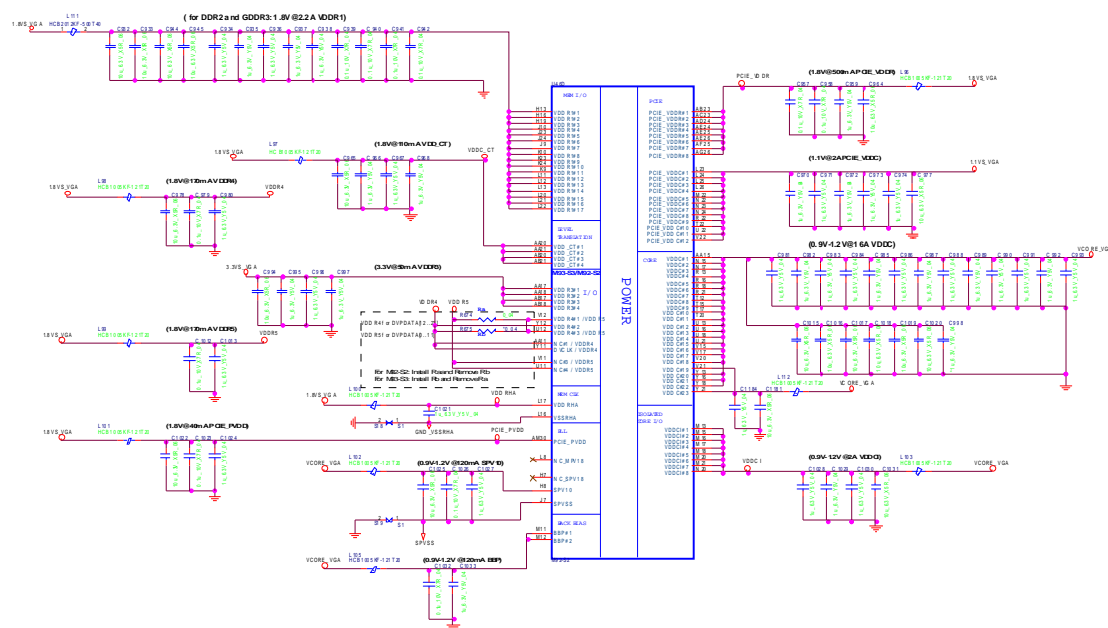
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External VGA M92-S2-2



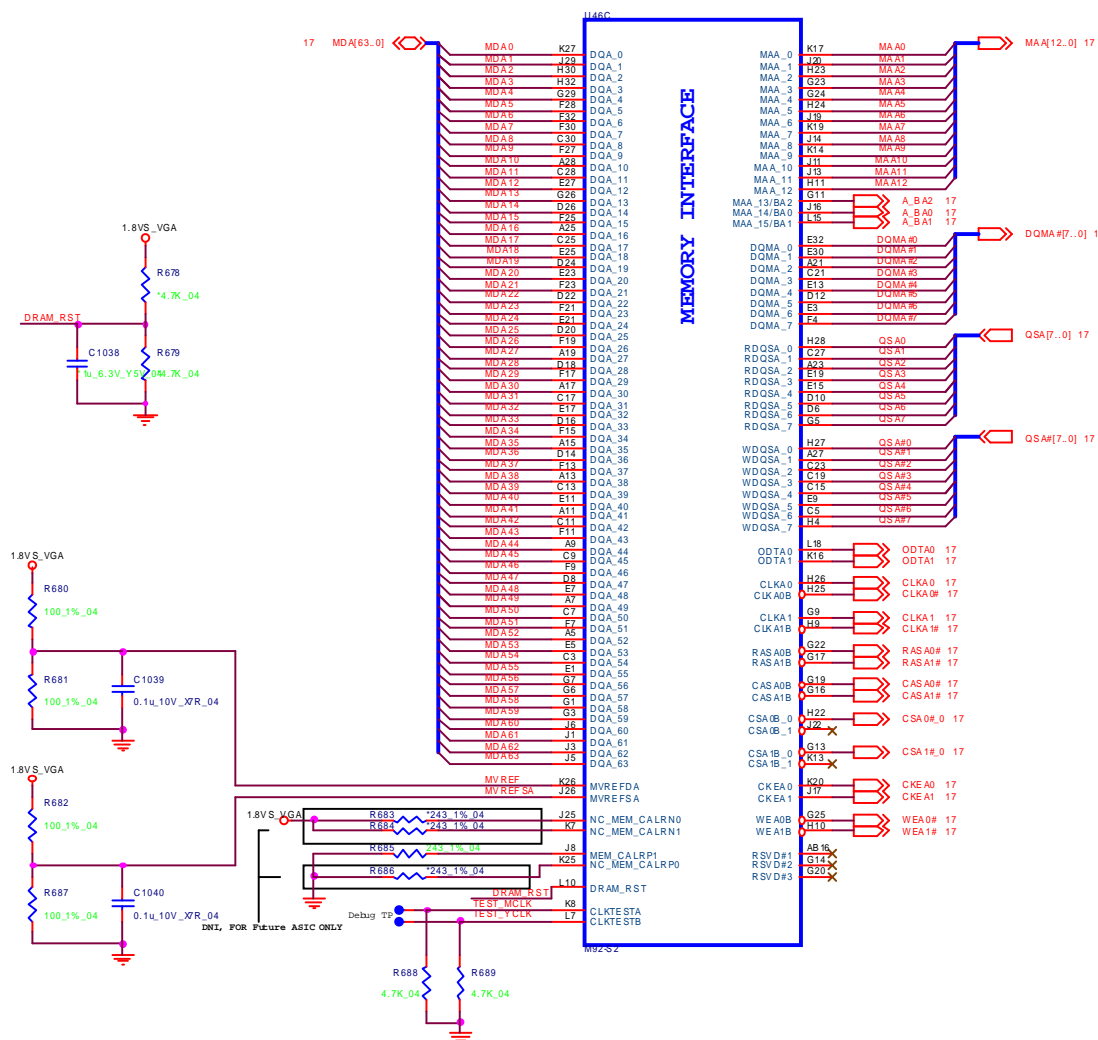
External VGA M92-S2-3



Sheet 15 of 50
External VGA M92-
S2-4



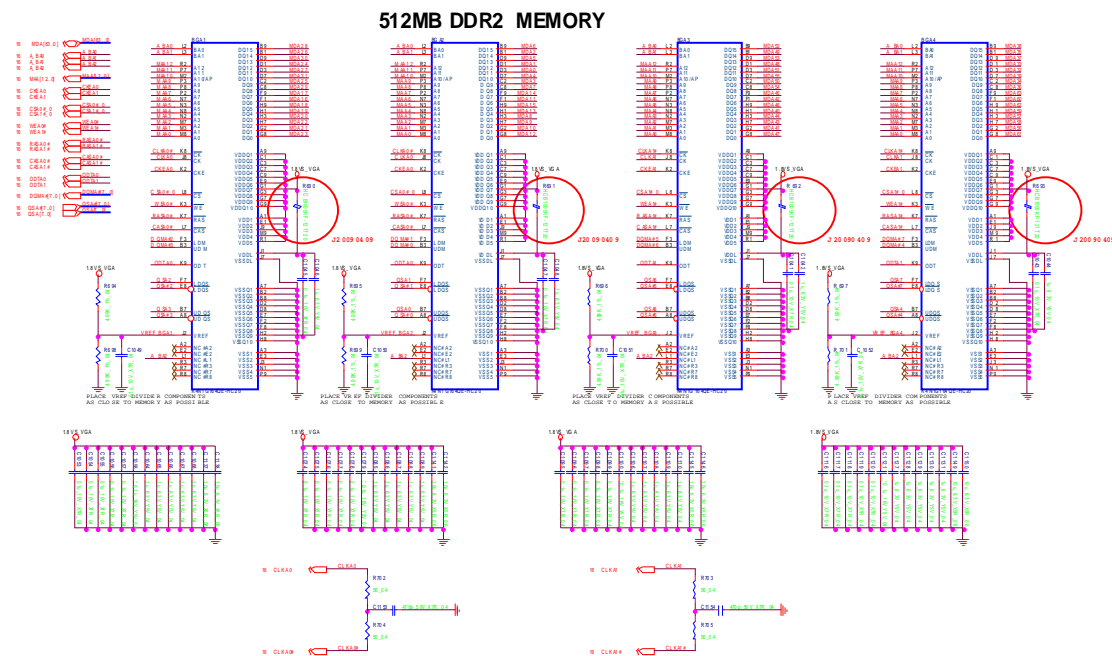
Sheet 16 of 50
External VGA M92-
S2-5



External VGA M92-S2-6

B.Schematic Diagrams

Sheet 17 of 50
External VGA M92-
S2-6



Schematic Diagrams

M10F

LP 260 2

VAR_Y_BL
DIG_ON

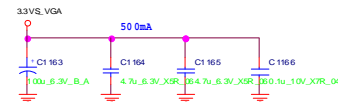
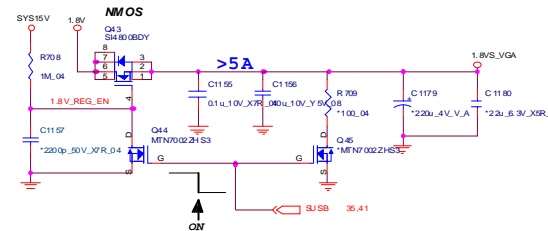
R2, R7, R6, TXK, OK

VGA_BKLTEN_20
VGA_IN_AIO_D_19

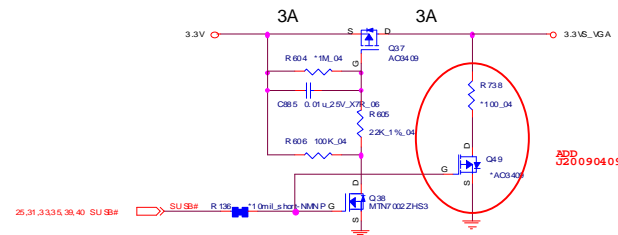
Pin	Signal
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AL0	MB2_1.VDS_U.CLQN 19
AL1	MB2_1.VDS_U.OP 19
AL2	MB2_1.VDS_U.IN 19
AL3	MB2_1.VDS_U.P 19
AL4	MB2_1.VDS_U.N 19
AL5	MB2_1.VDS_U.P 19
AL6	MB2_1.VDS_U.N 19
AL7	MB2_1.VDS_L.CLK_P 19
AL8	MB2_1.VDS_L.CLQN 19
AL9	MB2_1.VDS_L.OP 19
AL10	MB2_1.VDS_L.IN 19
AL11	MB2_1.VDS_L.P 19
AL12	MB2_1.VDS_L.N 19
AL13	MB2_1.VDS_L.P 19
AL14	MB2_1.VDS_L.N 19
AL15	MB2_1.VDS_L.P 19
AL16	MB2_1.VDS_L.N 19

LP 260 2

1.8V TO 1.8VS_VGA



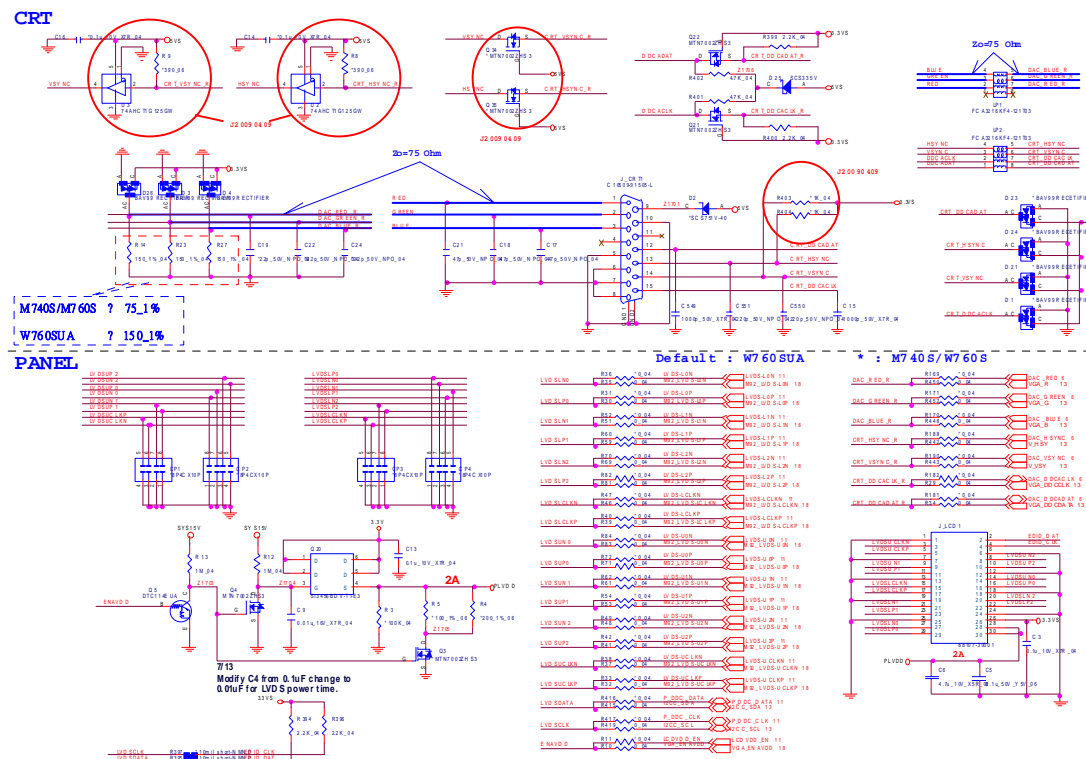
3.3V TO 3.3VS_VGA



Sheet 18 of 50
External VGA M92-
S2-7

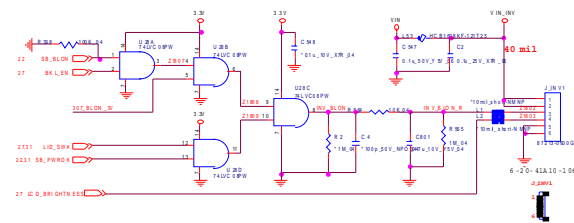
Panel, CRT

Sheet 19 of 50
Panel, CRT

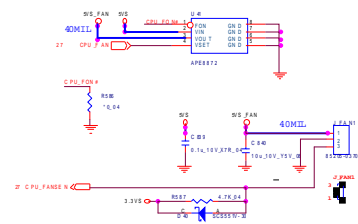


Inverter, BT, Fan

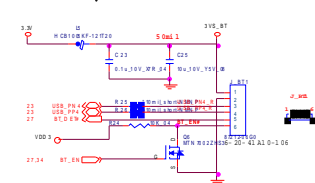
INVERTER CONNECTOR



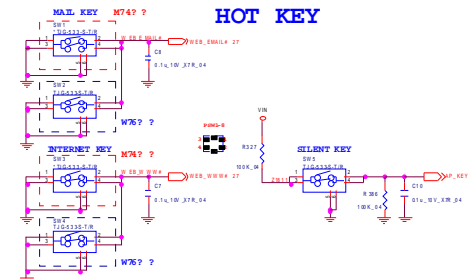
FAN CONTROL



Bluetooth

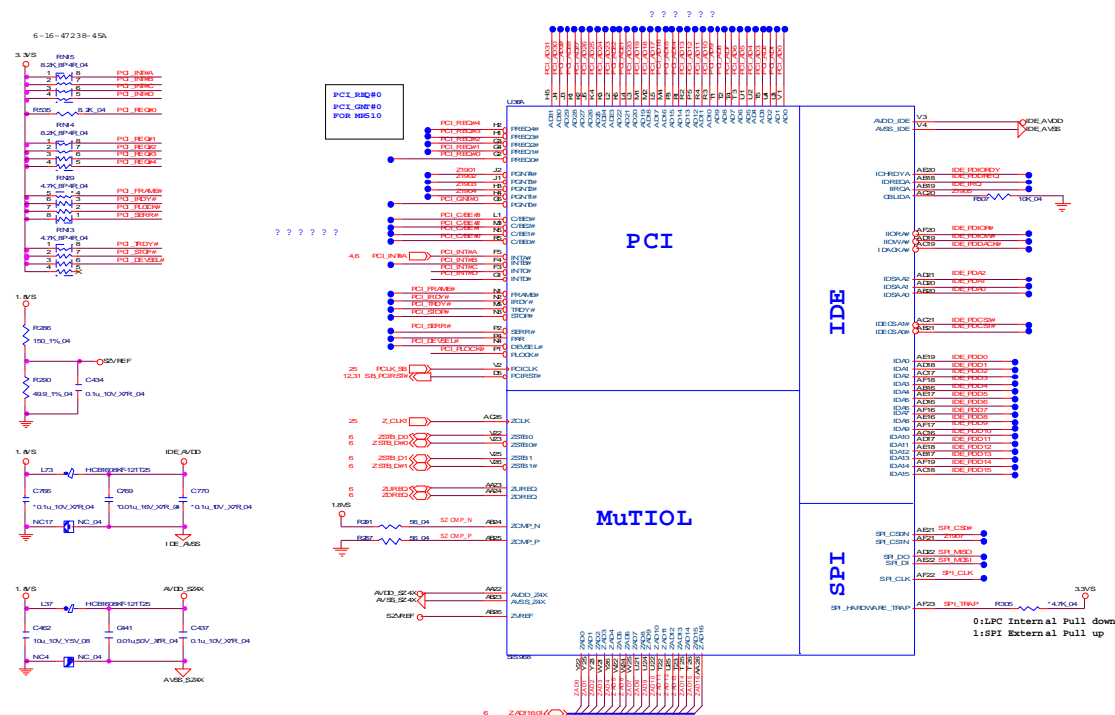


HOT KEY

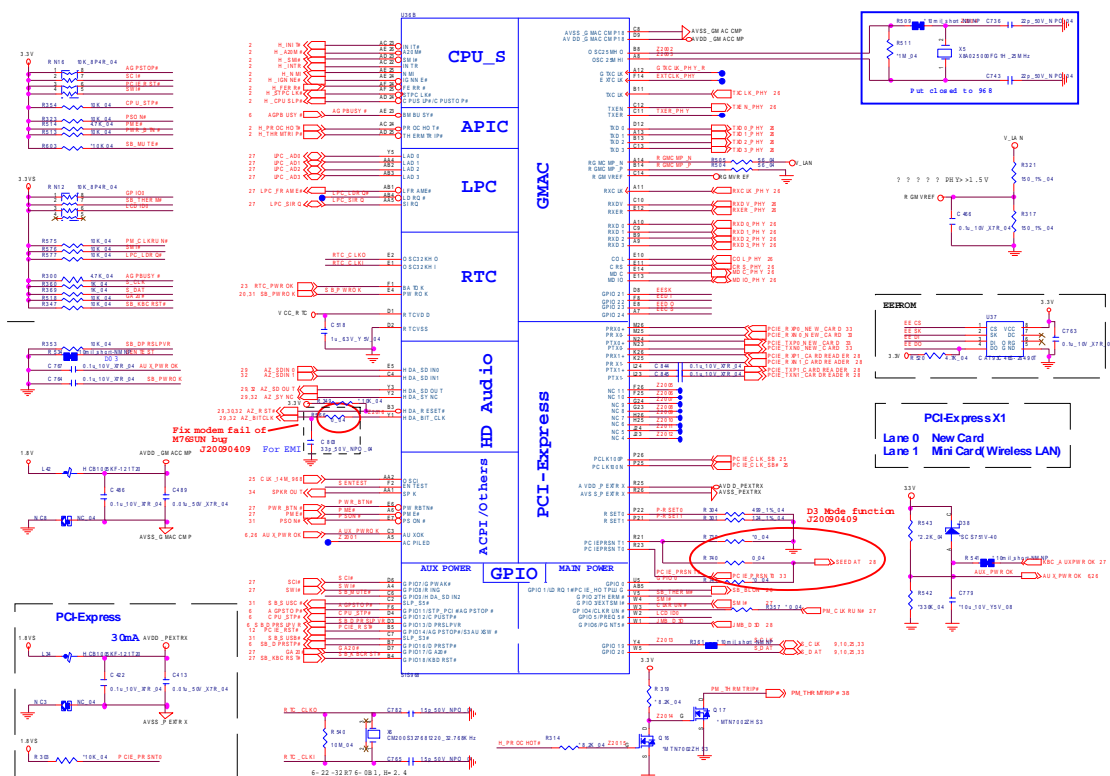


Sheet 20 of 50
Inverter, BT, Fan

Sheet 21 of 50
968 - PCI, IDE,
MuTIOL, SPI 1/4



968 - PCIE, LAN, GPIO 2/4

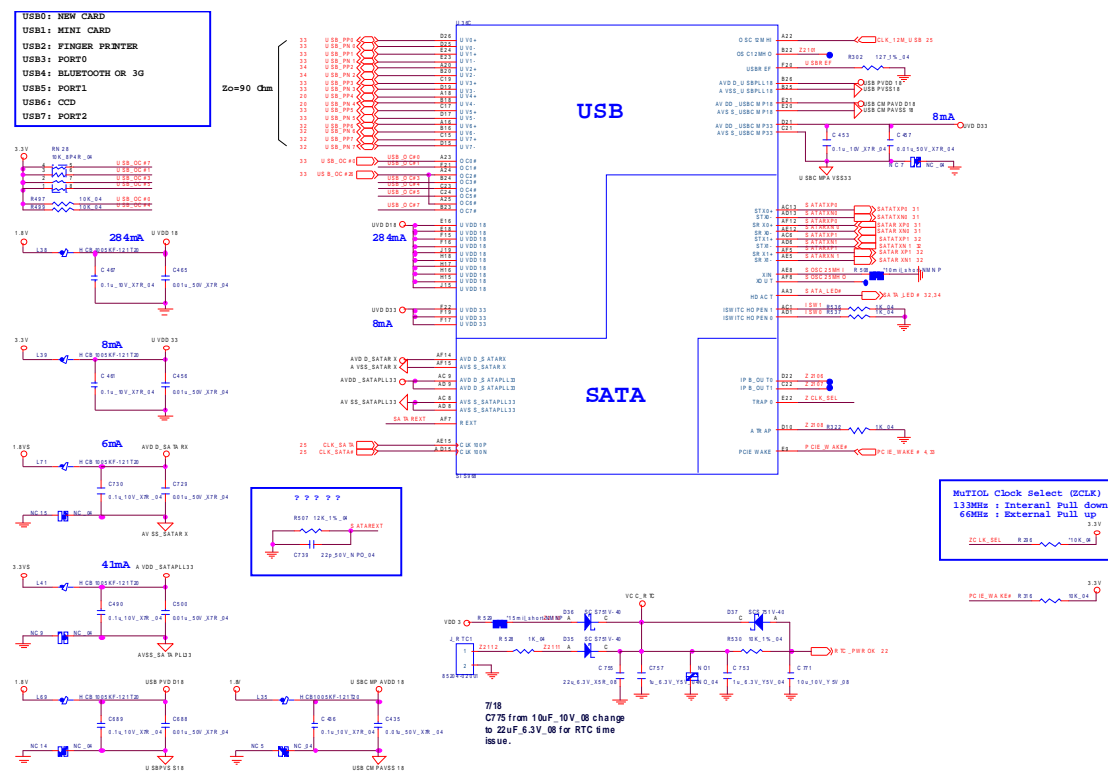


Sheet 22 of 50
968 - PCIE, LAN,
GPIO 2/4

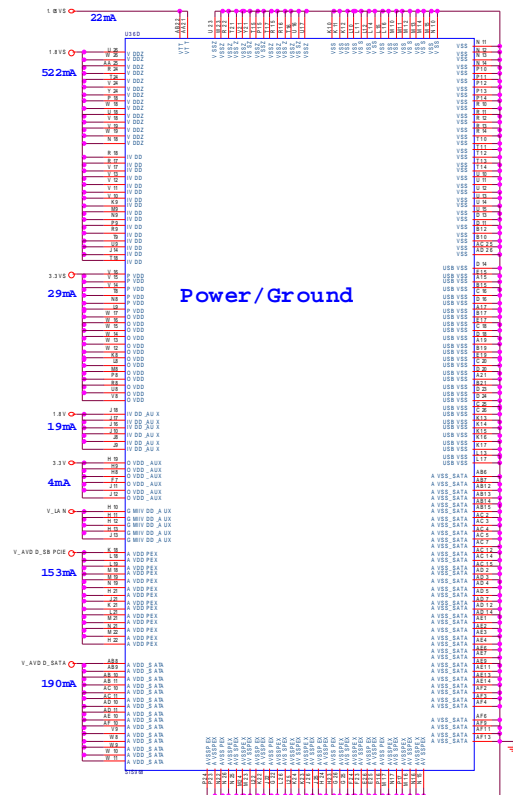
Schematic Diagrams

968 - USB, SATA 3/4

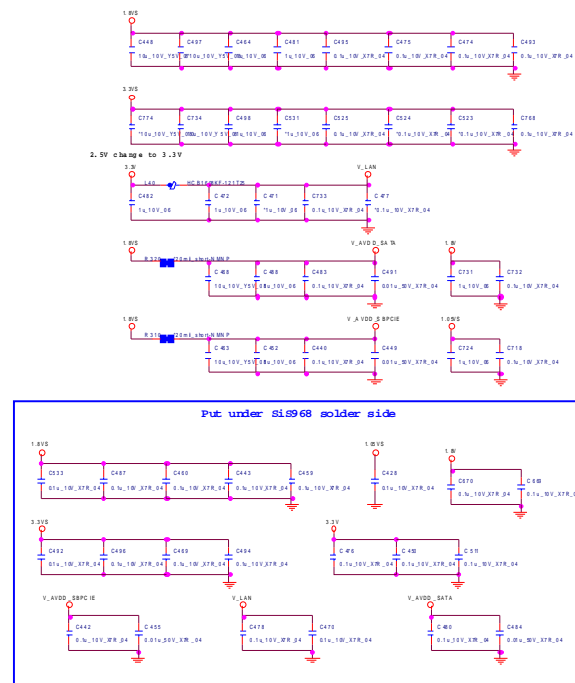
Sheet 23 of 50
968 - USB, SATA
3/4



968 - PWR GND 4/4



Power/Ground

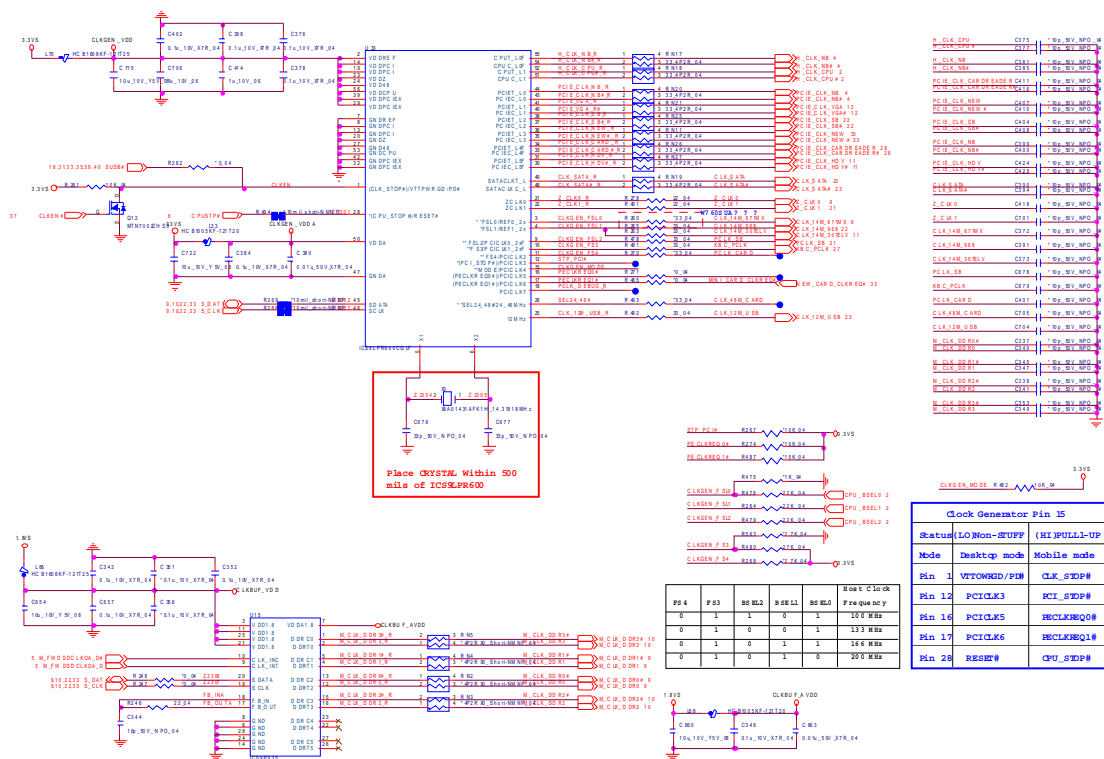


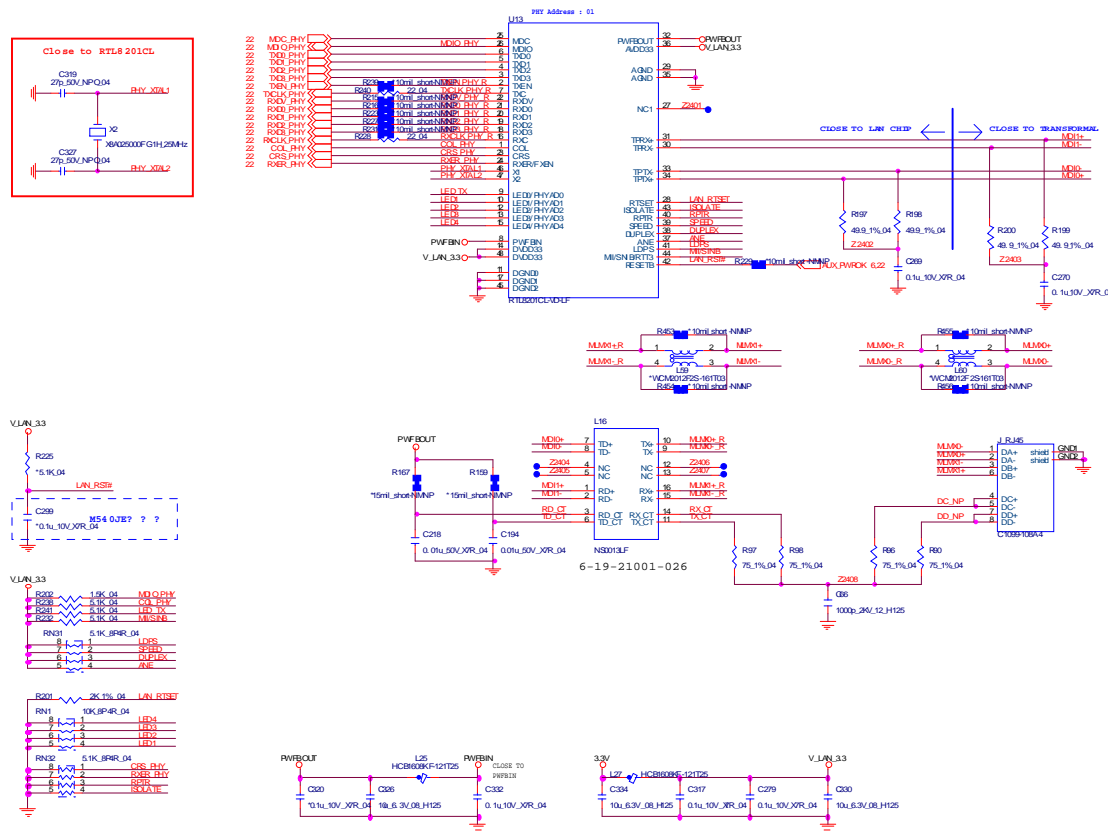
Put under S18968 solder side

Sheet 24 of 50
968 - PWR GND 4/4

Clock Gen & Clock Buffer

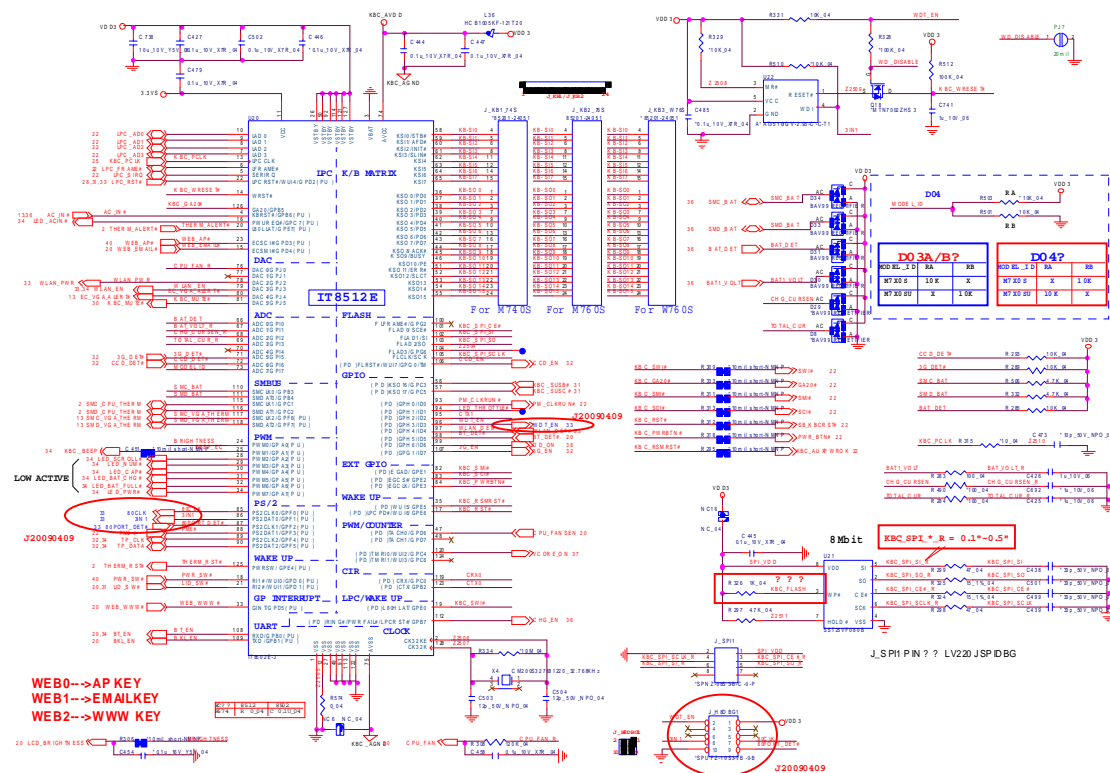
Sheet 25 of 50
Clock Gen & Clock
Buffer



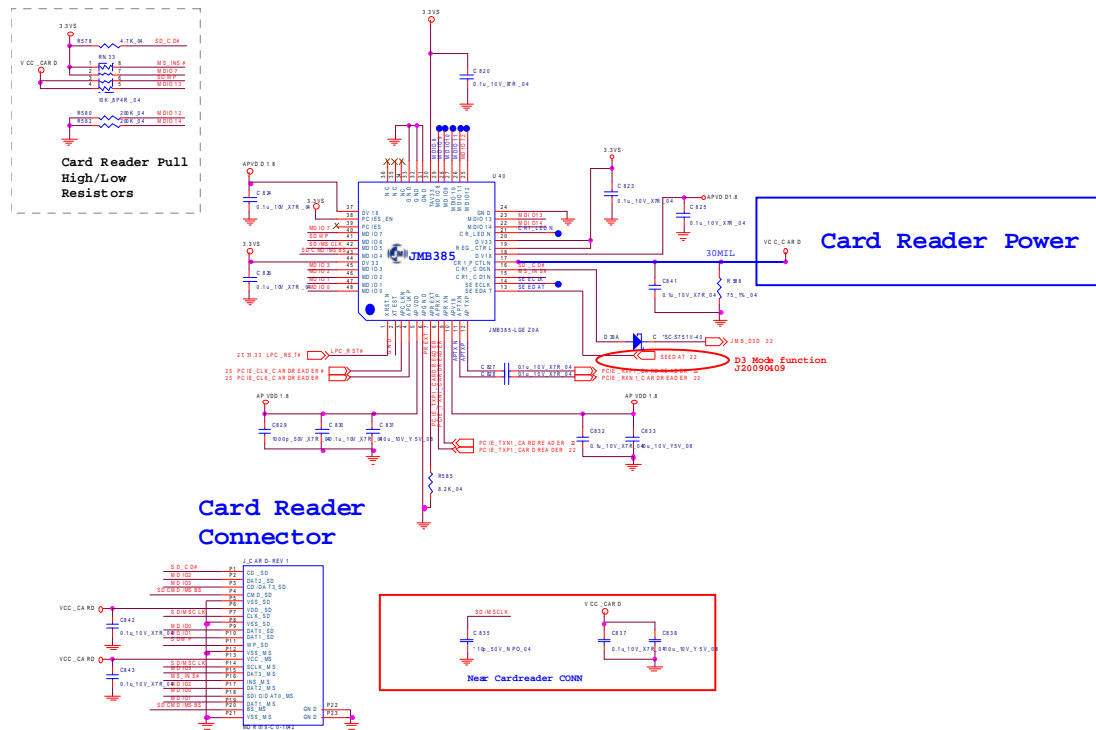


Sheet 26 of 50
PHY Realtek
8201CL

Sheet 27 of 50
KBC-ITE IT8512E

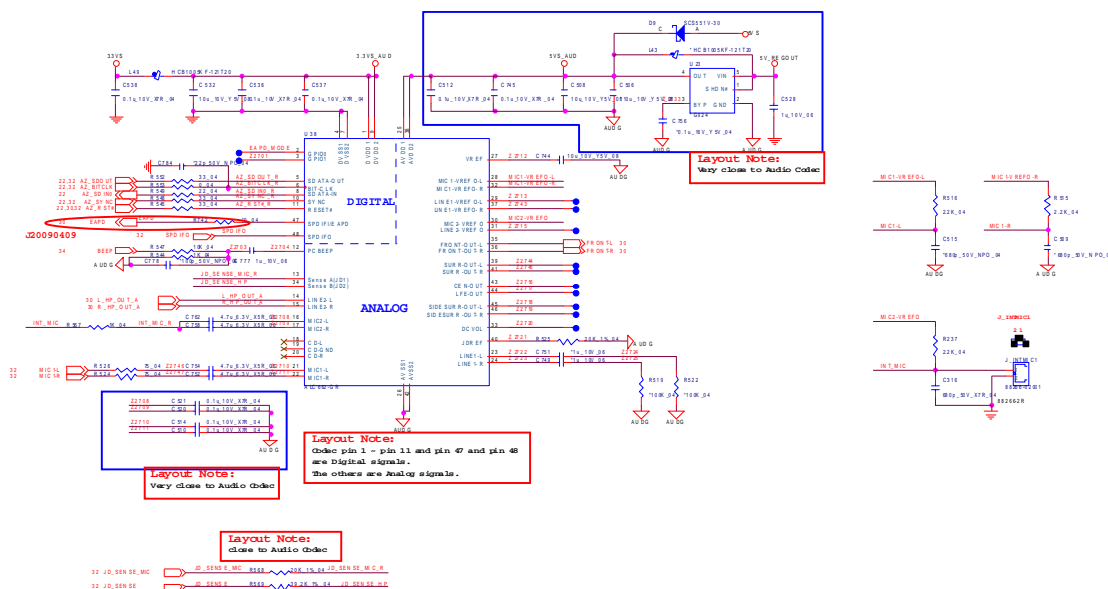


JMB385 Card Reader

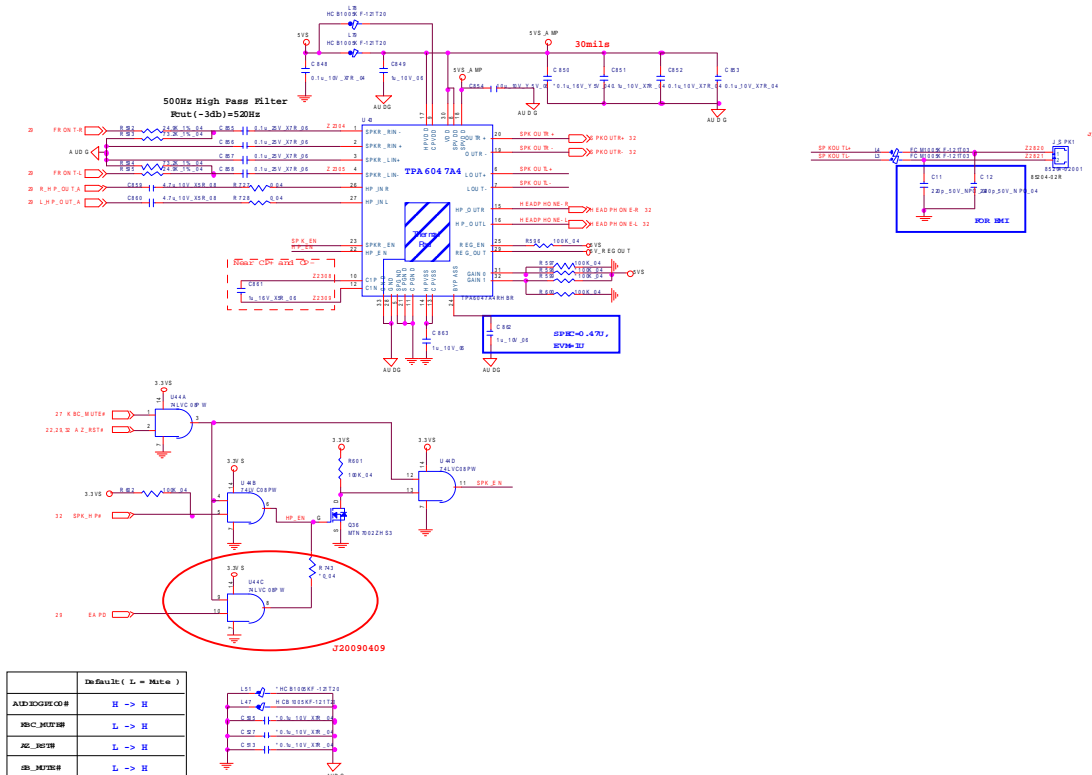


Sheet 28 of 50
JMB385 Card
Reader

Sheet 29 of 50
Audio Codec
ALC662



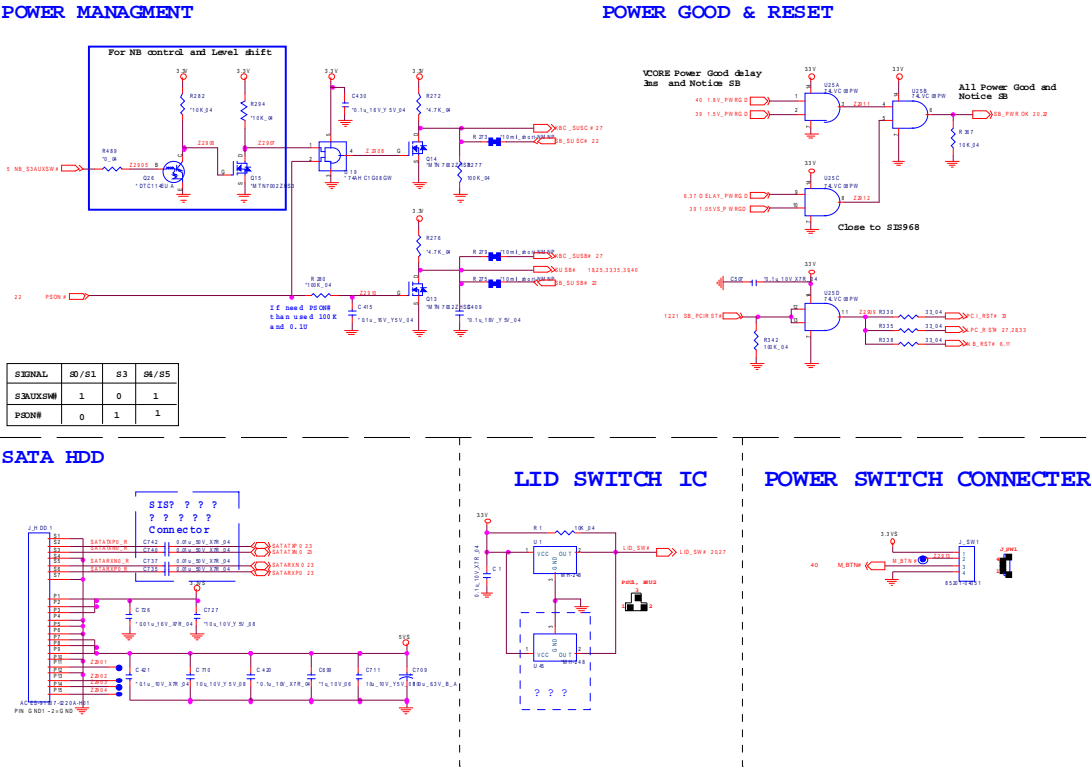
Sheet 30 of 50
Audio AMP
TPA6047A4



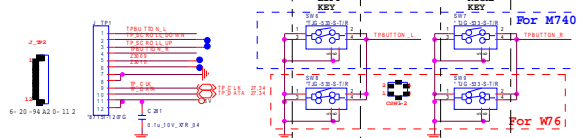
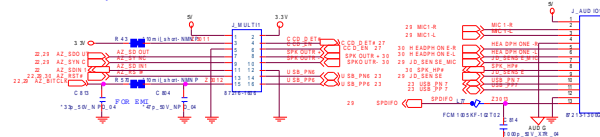
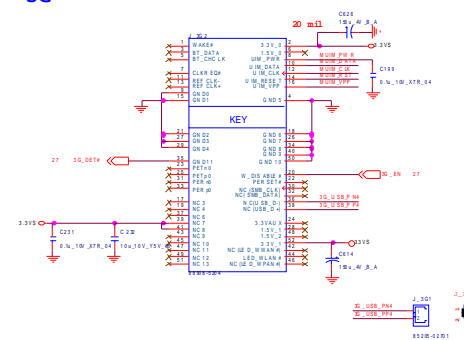
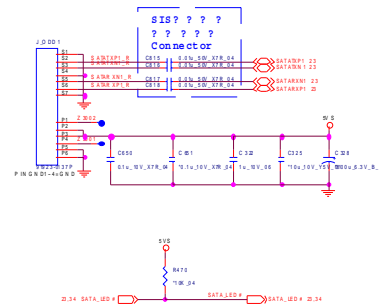
Schematic Diagrams

SATA HDD, Power Good, LID

Sheet 31 of 50
SATA HDD, Power
Good, LID

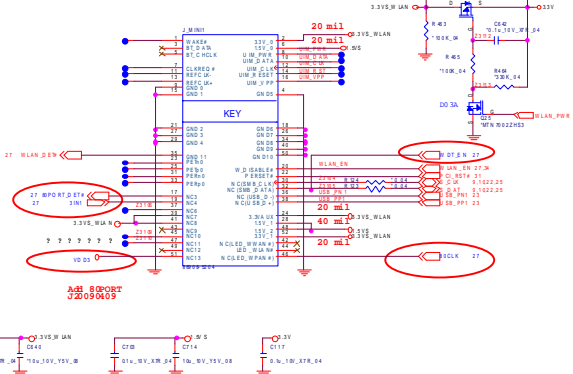
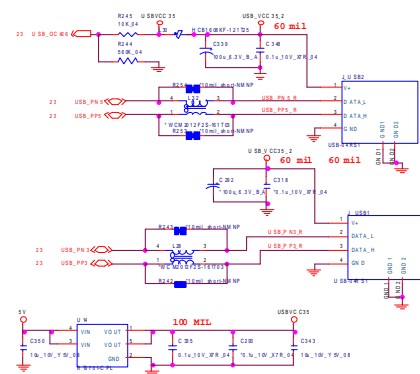
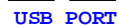


Schematic Diagrams



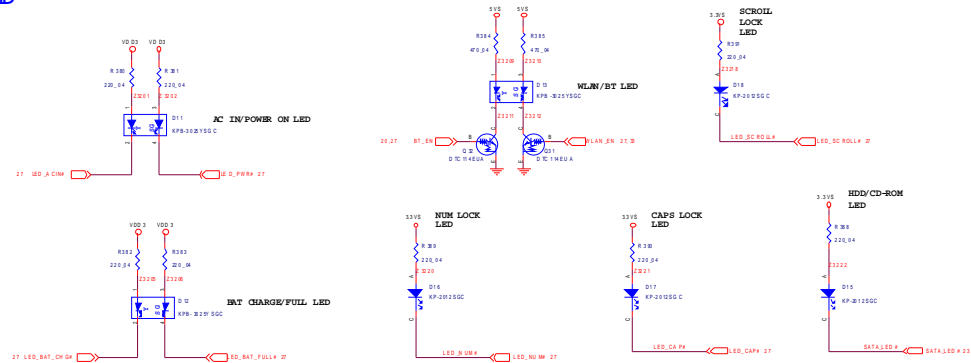
1. SIM ? ? ? ? ? ? ? ? (10mil)
2. ? ? ? ? ? ? ? ? GND
3. SIM hold ? ? ? ? ? GND? ?
4. SIM CONN ? ? MINICARD CONN

Sheet 33 of 50
New Card, Mini
PCIE, USB

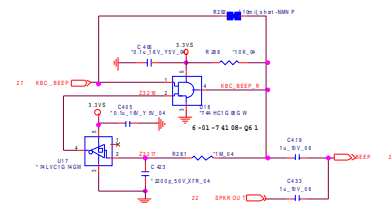


LED, PC Beep, TP, FP

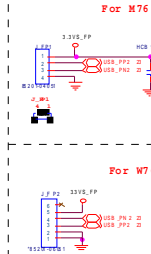
LED



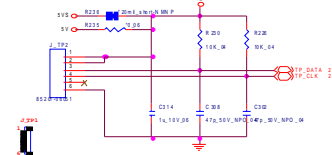
PC BEEP



FP CONN



CLICK CONN For M76

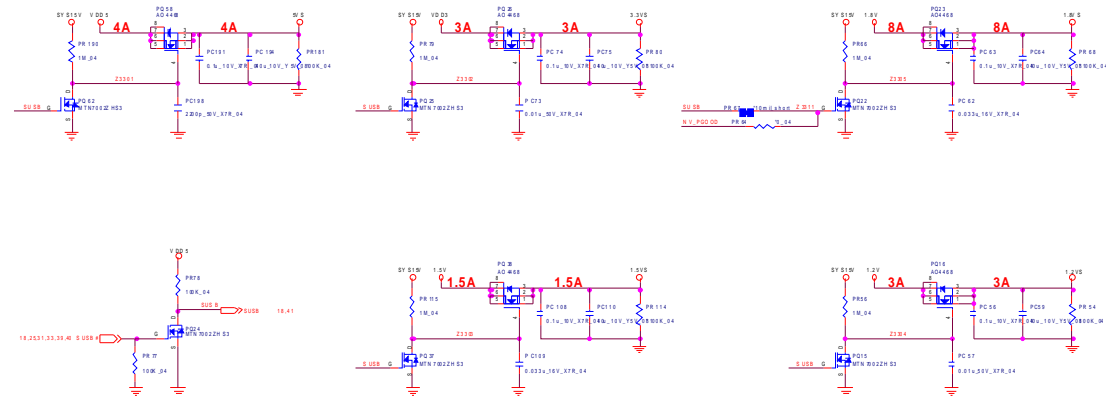


Sheet 34 of 50
LED, PC Beep, TP, FP

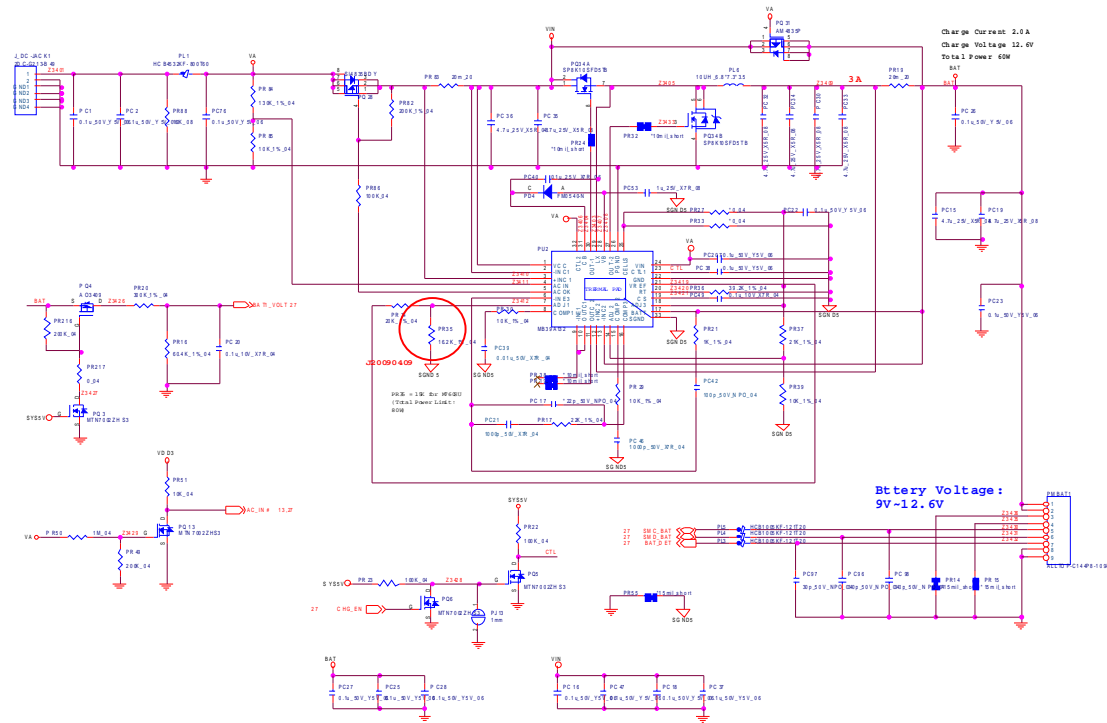
System Power

Sheet 35 of 50
System Power

1.2VS, 1.5VS, 1.8VS, 3.3VS, 5VS



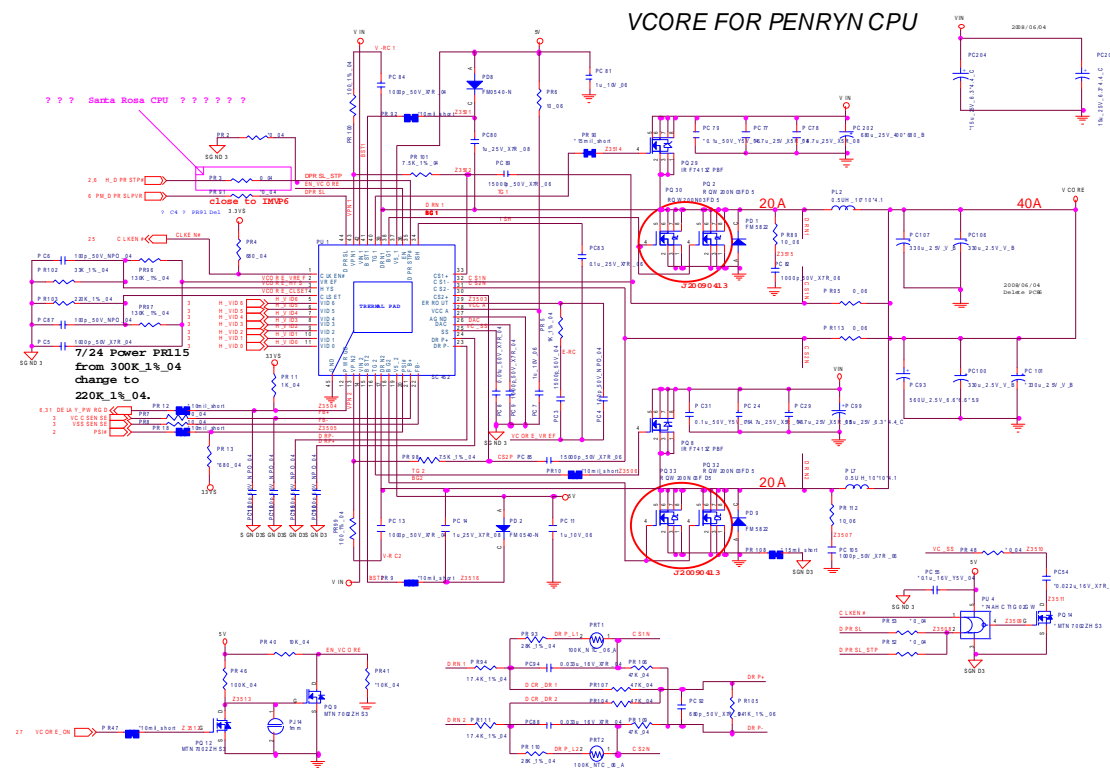
AC-In, Charger



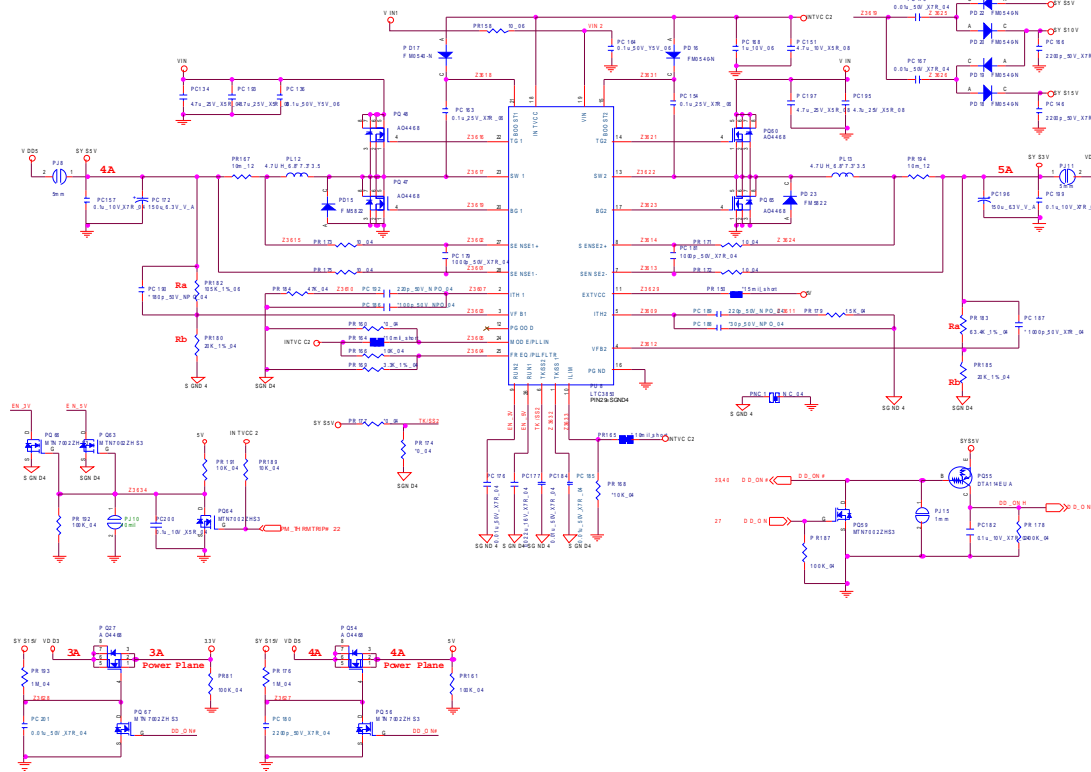
Sheet 36 of 50
AC-In, Charger

VCore

Sheet 37 of 50
VCore



VDD3, VDD5



Sheet 38 of 50
VDD3, VDD5

1.05VS, 1.2V, 1.5V

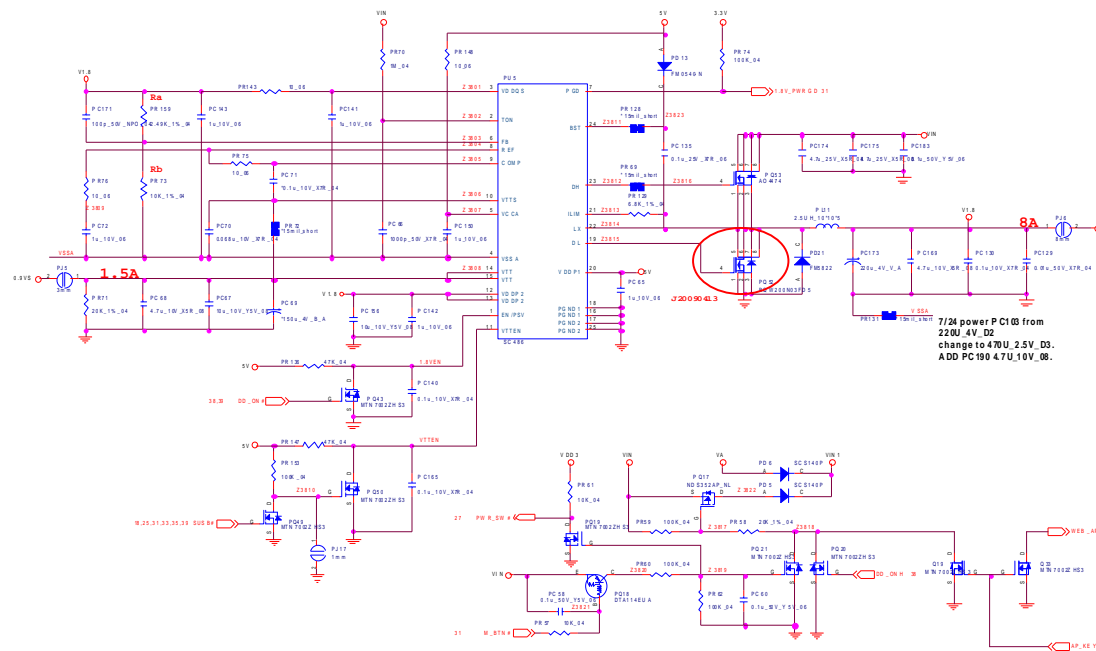
B.Schematic Diagrams

The image shows a complex PCB layout for a power supply system. The layout is divided into several sections, each with its own power plane and ground plane. The main power plane is labeled "Power Plane" and is connected to a 5V input. The layout includes a 3A DC-DC converter and a 6A DC-DC converter. The 3A converter is highlighted with a green circle, and the 6A converter is highlighted with a red circle. The layout is annotated with component values and footprints, and includes a green circle around the 3A converter and a red circle around the 6A converter. The layout is annotated with component values and footprints, and includes a green circle around the 3A converter and a red circle around the 6A converter.

Key components and values visible in the layout include:

- Input voltage: 5V
- Output voltage: 1.2V
- Currents: 3A, 6A, 1.5A
- Resistors: PR103, PR102, PR101, PR104, PR105, PR106, PR107, PR108, PR109, PR110, PR111, PR112, PR113, PR114, PR115, PR116, PR117, PR118, PR119, PR120, PR121, PR122, PR123, PR124, PR125, PR126, PR127, PR128, PR129, PR130, PR131, PR132, PR133, PR134, PR135, PR136, PR137, PR138, PR139, PR140, PR141, PR142, PR143, PR144, PR145, PR146, PR147, PR148, PR149, PR150, PR151, PR152, PR153, PR154, PR155, PR156, PR157, PR158, PR159, PR160, PR161, PR162, PR163, PR164, PR165, PR166, PR167, PR168, PR169, PR170, PR171, PR172, PR173, PR174, PR175, PR176, PR177, PR178, PR179, PR180, PR181, PR182, PR183, PR184, PR185, PR186, PR187, PR188, PR189, PR190, PR191, PR192, PR193, PR194, PR195, PR196, PR197, PR198, PR199, PR200, PR201, PR202, PR203, PR204, PR205, PR206, PR207, PR208, PR209, PR210, PR211, PR212, PR213, PR214, PR215, PR216, PR217, PR218, PR219, PR220, PR221, PR222, PR223, PR224, PR225, PR226, PR227, PR228, PR229, PR230, PR231, PR232, PR233, PR234, PR235, PR236, PR237, PR238, PR239, PR240, PR241, 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PR814, PR815, PR816, PR817, PR818, PR819, PR820, PR821, PR822, PR823, PR824, PR825, PR826, PR827, PR828, PR829, PR830, PR831, PR832, PR833, PR834, PR835, PR836, PR837, PR838, PR839, PR840, PR8

1.8V, 0.9VS

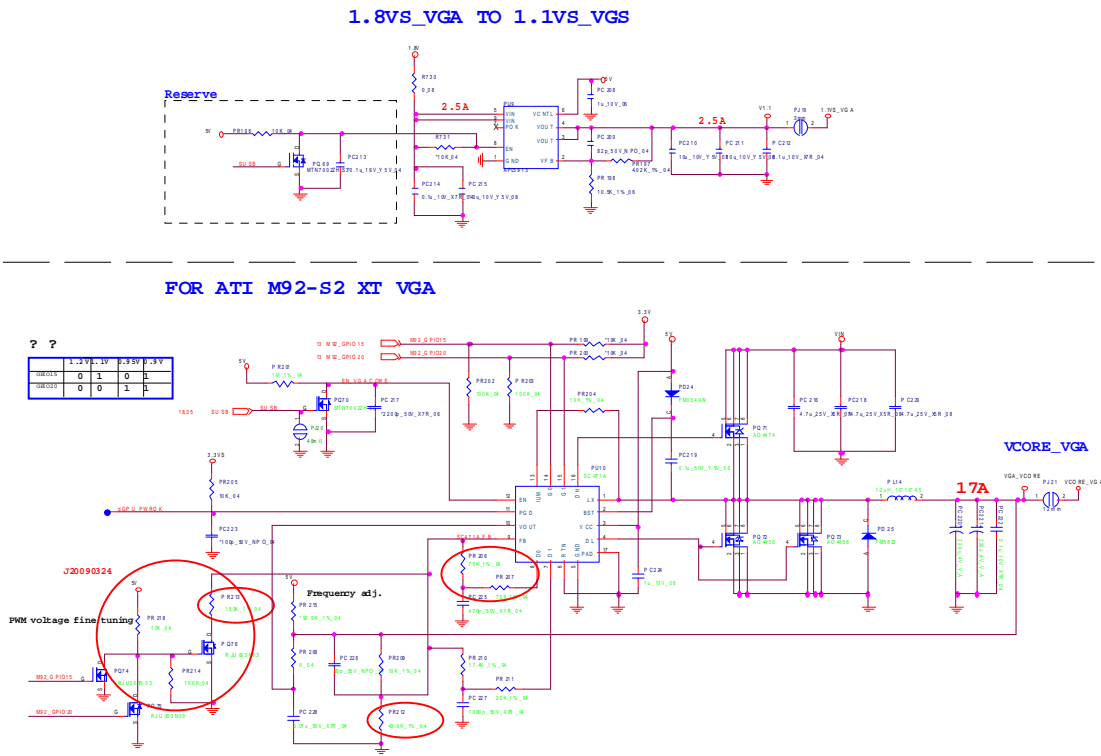


Sheet 40 of 50
1.8V, 0.9VS

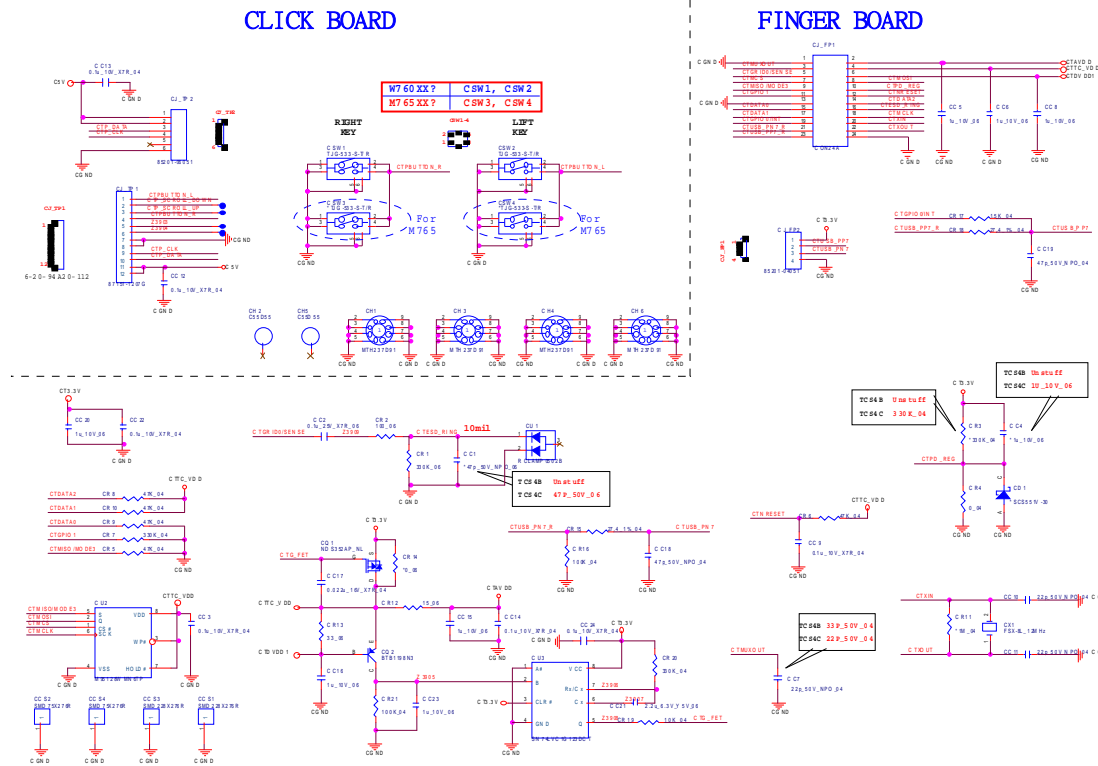
Schematic Diagrams

VGA M92-S2 Power

Sheet 41 of 50
VGA M92-S2 Power

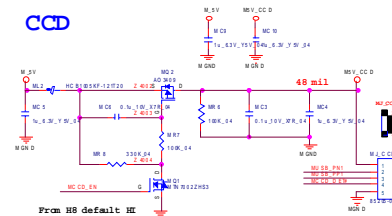
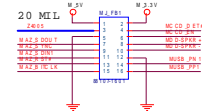
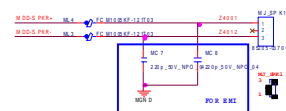


Click Finger Board for M76

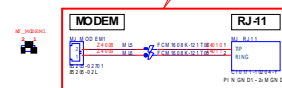


Sheet 42 of 50
Click Finger Board
for M76

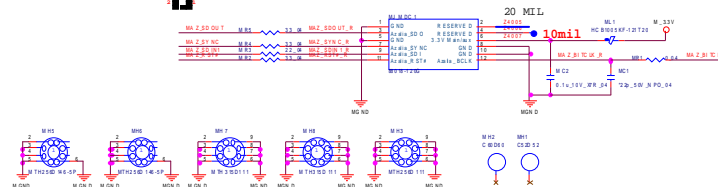
Sheet 43 of 50
Multi- Function
Board



? ? ? ? ? ? ? ? ?
 ? ? 2.5mm ? ?

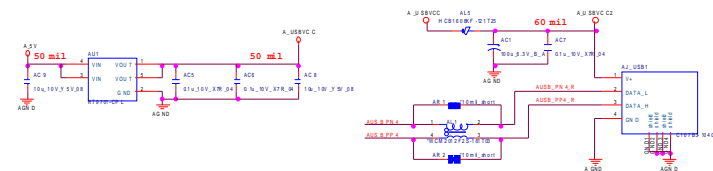


12

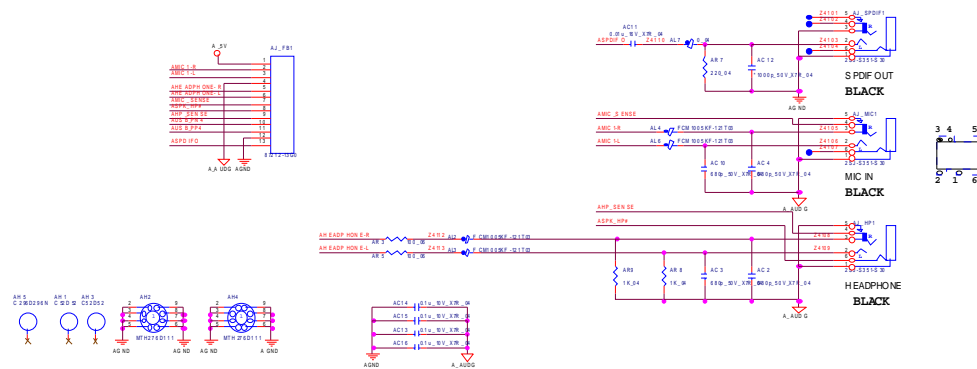


Audio Board

USB PORT



AUDIO JACK

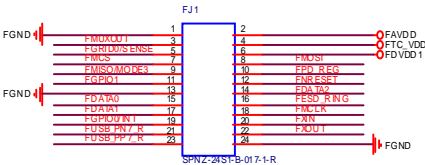
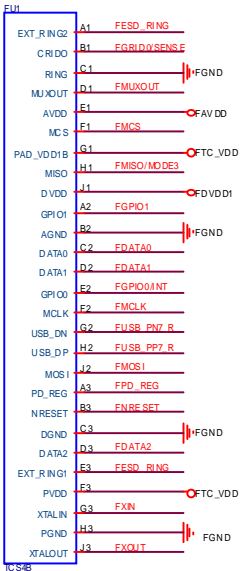


Sheet 44 of 50
Audio Board

Schematic Diagrams

Finger Sensor Board

Sheet 45 of 50
Finger Sensor
Board



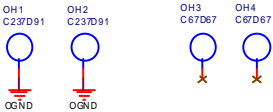
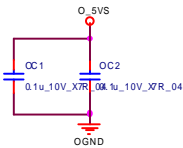
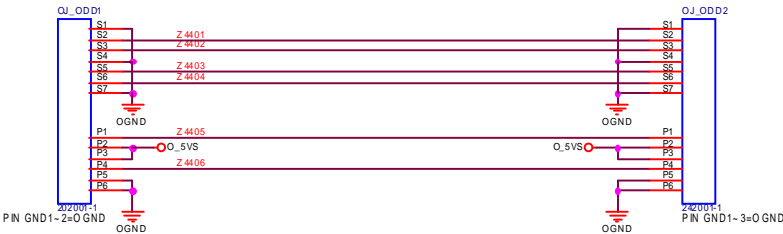
POWER SW & POWER LED FOR M74



External ODD Board for M74

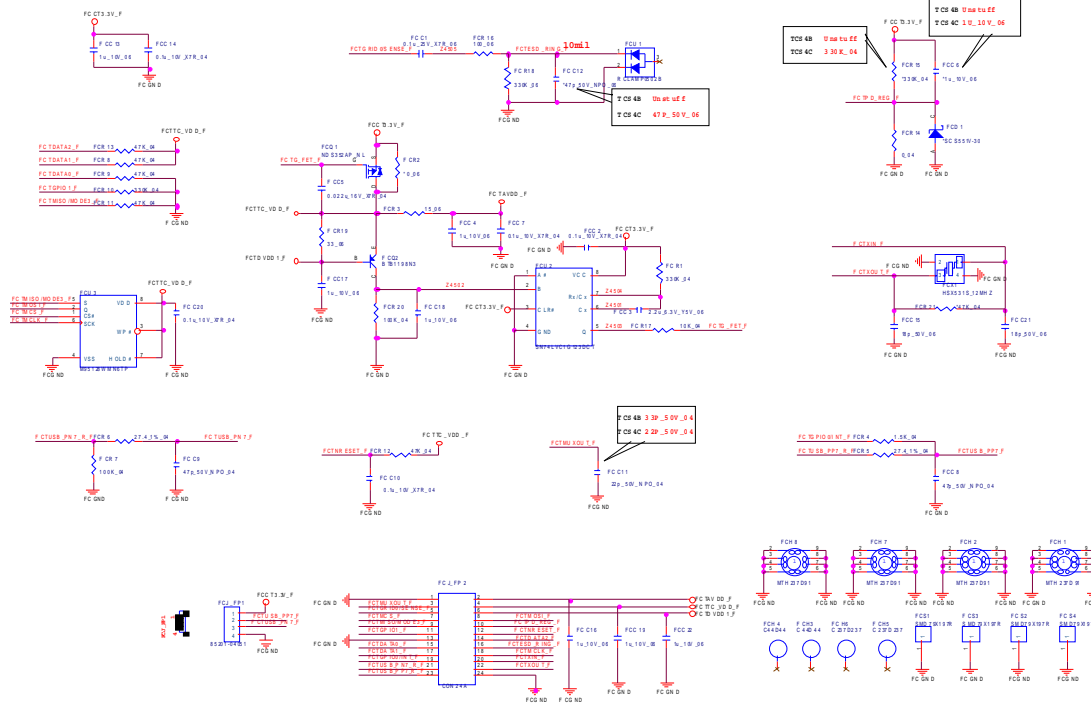
ODD BOARD

Sheet 47 of 50
External ODD
Board for M74



Finger Board for M74

FINGER BOARD FOR M74



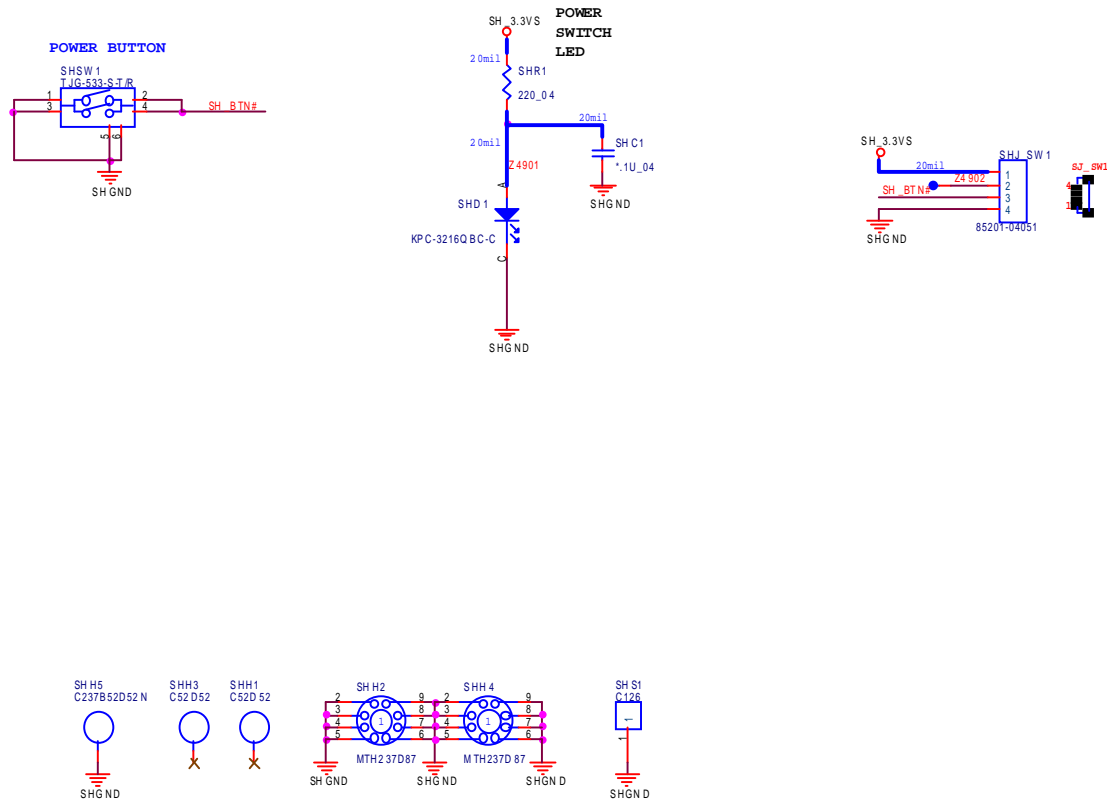
Sheet 48 of 50
Finger Board for
M74

Schematic Diagrams

Power Switch Board for M76

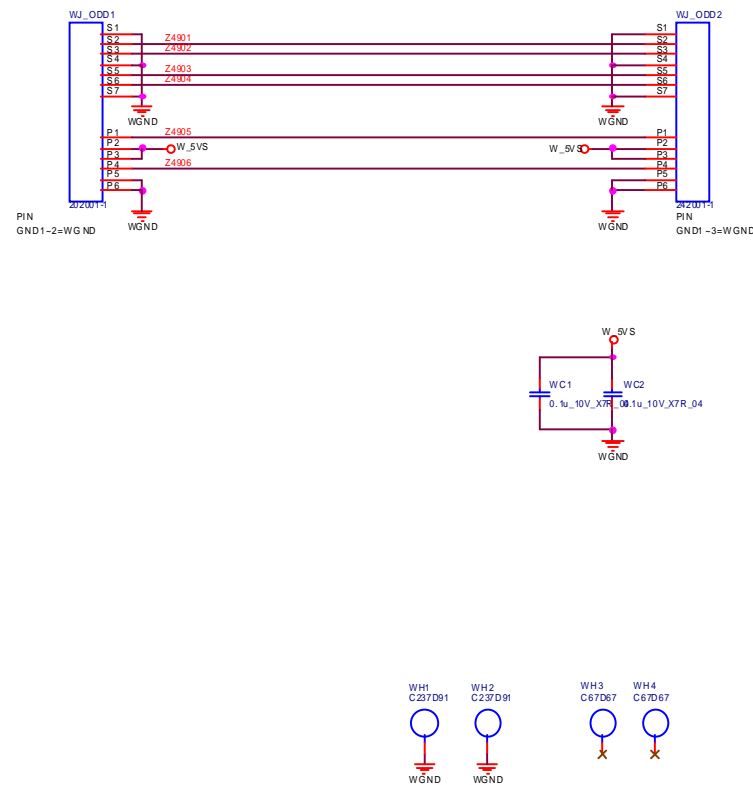
POWER SW & POWER LED FOR M76

Sheet 49 of 50
Power Switch
Board for M76



External ODD Board for W76

ODD BOARD FOR W76



Sheet 50 of 50
External ODD
Board for W76

