

SERVICE MANUAL

W830T / W830T1 / W840T / W840T1

notebook



Notebook Computer

W830T/W830T1/W840T/W840T1

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 **W830T/W830T1/W840T/W840T1** 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, 3.42A OR 18.5V, 3.5A (**65** 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

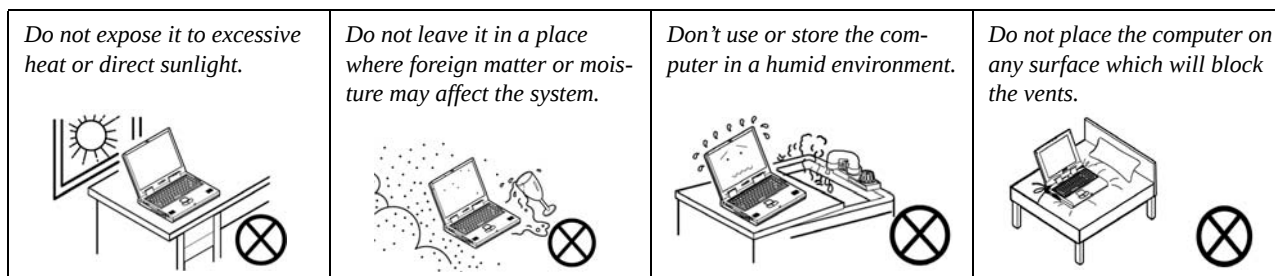
Instructions for Care and Operation

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

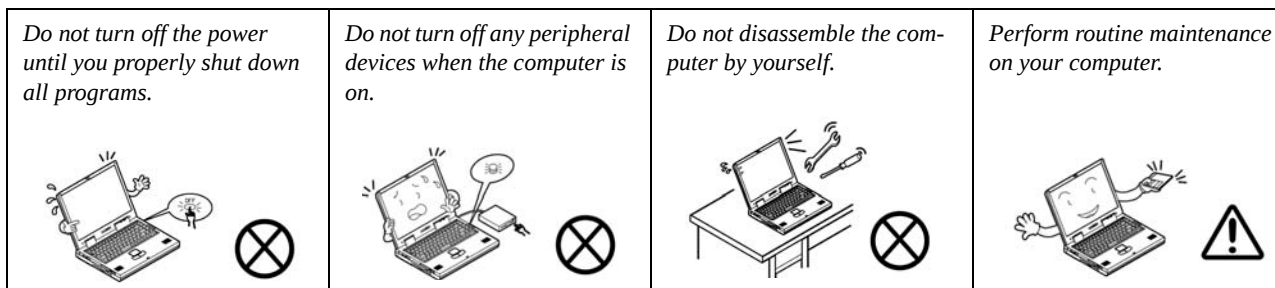
1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.



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.

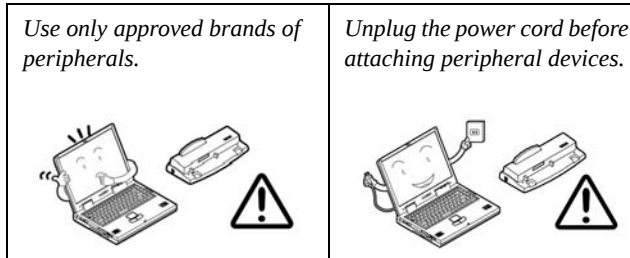


3. **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.



Preface

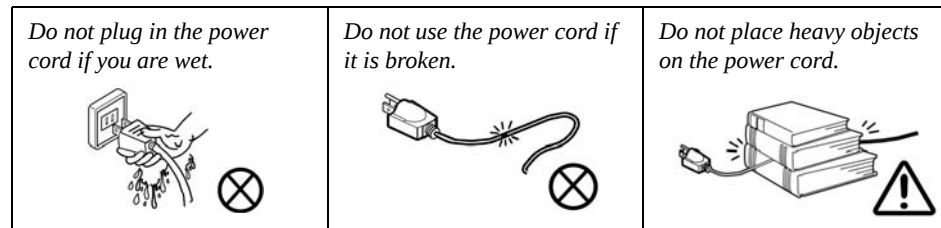
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



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 Disc

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 **W830T/W830T1/W840T/W840T1** 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 **W830T/W830T1/W840T/W840T1** 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	W830T1/W840T1:	Memory
<u>W830T/W840T:</u> Intel® Celeron® Processor ULV: 723 (1.20GHz) 45nm (45 Nanometer) Process Technology, 1MB L2 Cache & 800MHz FSB - TDP 10W, BGA Socket P Pin-Out, 22 * 22mm CPU On Board	Intel® Core™2 Solo Processor ULV: SU3500 (1.40GHz) 45nm (45 Nanometer) Process Technology, 3MB L2 Cache & 800MHz FSB - TDP 5.5W, BGA Socket P Pin-Out, 22 * 22mm CPU On Board	64-bit Wide DDRIII (DDR3) Data Channel Supporting Single Channel DDRIII (DDR3) SDRAM Memory Expandable up to 2GB =====
Intel® Celeron® Processor ULV: 743 (1.30GHz) 45nm (45 Nanometer) Process Technology, 1MB L2 Cache & 800MHz FSB - TDP 10W, BGA Socket P Pin-Out, 22 * 22mm CPU On Board	Intel® Core™2 Duo Processor ULV: SU7300 (1.30GHz) 45nm (45 Nanometer) Process Technology, 3MB L2 Cache & 800MHz FSB - TDP 10W, BGA Socket P Pin-Out, 22 * 22mm CPU On Board	<u>W830T/W840T:</u> One 204 Pin SO-DIMM Socket Supporting DDRIII (DDR3) 800MHz =====
Intel® Pentium® Processor SU2300: (1.20GHz) 45nm (45 Nanometer) Process Technology, 2MB L2 Cache & 800MHz FSB - TDP 10W, BGA Socket P Pin-Out, 22 * 22mm CPU On Board	Core Logic	<u>W830T1/W840T1:</u> One 204 Pin SO-DIMM Socket Supporting DDRIII (DDR3) 1066MHz
Intel® Pentium® Processor SU2700: (1.30GHz) 45nm (45 Nanometer) Process Technology, 2MB L2 Cache & 800MHz FSB - TDP 10W, BGA Socket P Pin-Out, 22 * 22mm CPU On Board	<u>W830T/W840T:</u> Intel® GS40 + ICH9M-SFF Chipset =====	Video
Intel® Pentium® Processor SU4100: (1.30GHz) 45nm (45 Nanometer) Process Technology, 2MB L2 Cache & 800MHz FSB - TDP 10W, BGA Socket P Pin-Out, 22 * 22mm CPU On Board	<u>W830T1/W840T1:</u> Intel® GS45 + ICH9M-SFF Chipset	<u>W830T/W840T:</u> Intel® GMA 4500M High Preference 3D/2D Graphic Accelerator Shared Memory Architecture of up to 256MB Supports Microsoft DirectX 10 =====
	Display	<u>W830T1/W840T1:</u> Intel® GMA 4500MHD High Preference 3D/2D Graphic Accelerator Shared Memory Architecture of up to 256MB Supports Microsoft DirectX 10
	<u>W830T/W830T1:</u> 13.3" HD (1366 * 768) TFT LCD =====	Audio
	<u>W840T/W840T1:</u> 14.0" HD (1366 * 768) TFT LCD	High Definition Audio Direct Sound 3D™ Compatible Built-In Microphone 2 * Built-In Speakers
	BIOS	
	One 16Mb SPI Flash ROM Phoenix™ BIOS	
	Security	
	Security (Kensington® Type) Lock Slot BIOS Password	

Storage	Communication	Environmental Spec
One Changeable 2.5" 9.5 mm (h) HDD with SATA (Serial) Interface	Built-In 10M/100M/1000M Base-TX Ethernet LAN Bluetooth 2.1 + EDR (Enhanced Data Rate) Module (Factory Option) Intel® WiFi Link 5300 Series (3*3 - 802.11a/g/n) Wireless LAN PCIe interface Half Mini-Card Module (Factory Option) 3rd Party 802.11b/g/n Wireless LAN PCIe interface Half Mini-Card Module (Factory Option) 1.3M Pixel PC Camera Module with USB interface 3.75G Module: UMTS/HSPDA-based 3.75G Module with USB 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	Temperature Operating: 5°C - 35°C Non-Operating: -20°C - 60°C Relative Humidity Operating: 20% - 80% Non-Operating: 10% - 90%
Keyboard & Pointing Device	Dimensions & Weight	Optional
Full Size WinKey Keyboard Built-in TouchPad with Scrolling and Multi-Finger Key Functionality	W830T/W830T1: 330mm (w) * 221mm (d) * 23mm (h) 1.50 kg (full system with 1G RAM, 2.5" HDD, and Polymer Battery) W840T/W840T1: 340mm (w) * 231mm (d) * 23mm (h) 1.60 kg ((full system with 1G RAM, 2.5" HDD, and Polymer Battery)	Intel® WiFi Link 5300 Series (3*3 - 802.11a/g/n) Wireless LAN PCIe interface Half Mini-Card Module (Factory Option) 3rd Party 802.11b/g/n Wireless LAN PCIe interface Half Mini-Card Module (Factory Option) External Super Multi Optical Device Drive with USB Interface Removable Polymer Battery Pack 62.16WH Bluetooth 2.1 + EDR (Enhanced Data Rate) Module (Factory Option) UMTS/HSPDA-based 3.75G Module with Mini-Card Interface (Factory Option)
Interface	Power Management	
Three USB 2.0 Ports One HDMI-Out Port (High-Definition Multimedia Interface) One External Monitor Port One Headphone-Out Jack One Microphone-In Jack One RJ-45 LAN Jack for 10/100/1000Mb Fast Ethernet One DC-In Jack	Supports Wake on LAN	
Card Reader	Power	
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	Full Range AC/DC Adapter AC input 100 - 240V, 50 - 60Hz, DC Output 19V, 3.42A or 18.5V, 3.5A (65 Watts) Removable Polymer Battery Pack 31.08WH Removable Polymer Battery Pack 62.16WH (Option)	
Slots		
One ExpressCard 34 Slot Two Mini-Card Slots with USB & PCIe interface: Slot 1 for Half Mini-Card WLAN Module Slot 2 for 3.75G Module (Factory Option)		
Operating System		
Windows® Vista (with Service Pack 2) Windows® 7		

Introduction

Figure 1
Top View

External Locator - Top View with LCD Panel Open

1. Optional Built-In PC Camera
2. LCD
3. Power Button
4. Keyboard
5. Built-In Microphone
6. Touchpad & Buttons
7. LED Status & Power Indicators (W830T/W830T1)
8. LED Power Indicators (W840T/W840T1)
9. LED Status Indicators (W840T/W840T1)



W830T/W830T1



W840T/W840T1

External Locator - Front & Right side Views

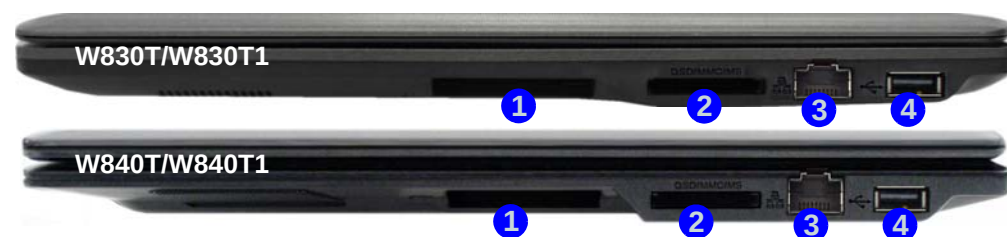
Figure 2
Front Views

1. LED Indicators



Figure 3
Right Side Views

1. ExpressCard 34 Slot
2. 7-in-1 Card Reader
3. RJ-45 LAN Jack
4. USB 2.0 Port



Introduction

External Locator - Left Side & Rear View

Figure 4
Left Side View

1. External Monitor Port (**W830T/ W830T1** Only)
2. HDMI-Out Port
3. USB 2.0 Ports
4. Microphone-In Jack
5. Headphone-Out Jack



Figure 5
Rear View

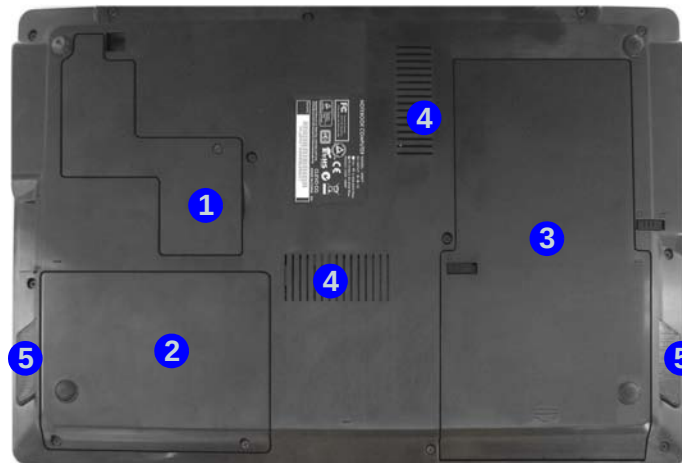
1. Vent/Fan Intake/ Outlet
2. Security Lock Slot
3. USB Port (**W830T/ W830T1** only)
4. External Monitor Port (**W840T/ W840T1** Only)
5. DC-In Jack



External Locator - Bottom View



W830T/W830T1



W840T/W840T1

Figure 6
Bottom View

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



Overheating

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

Introduction

Figure 7
**Mainboard Top
Key Parts**

1. Memory Slots
DDR3 SO-DIMM
2. Intel CPU
3. North Bridge
4. South Bridge

Mainboard Overview - Top (Key Parts)



Mainboard Overview - Bottom (Key Parts)

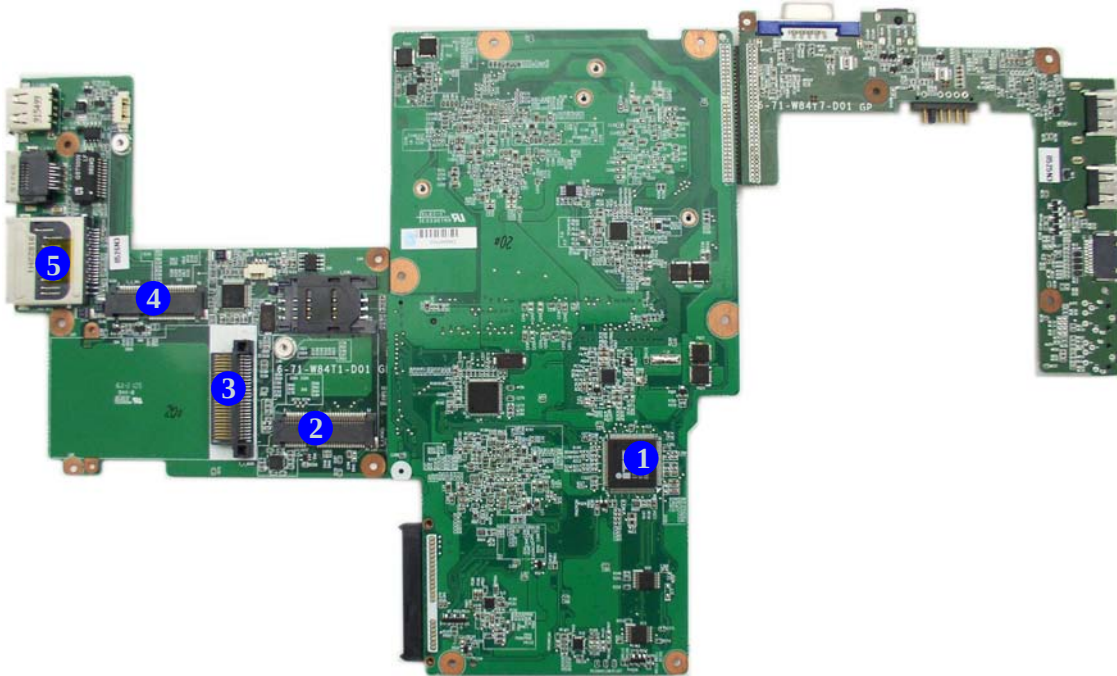


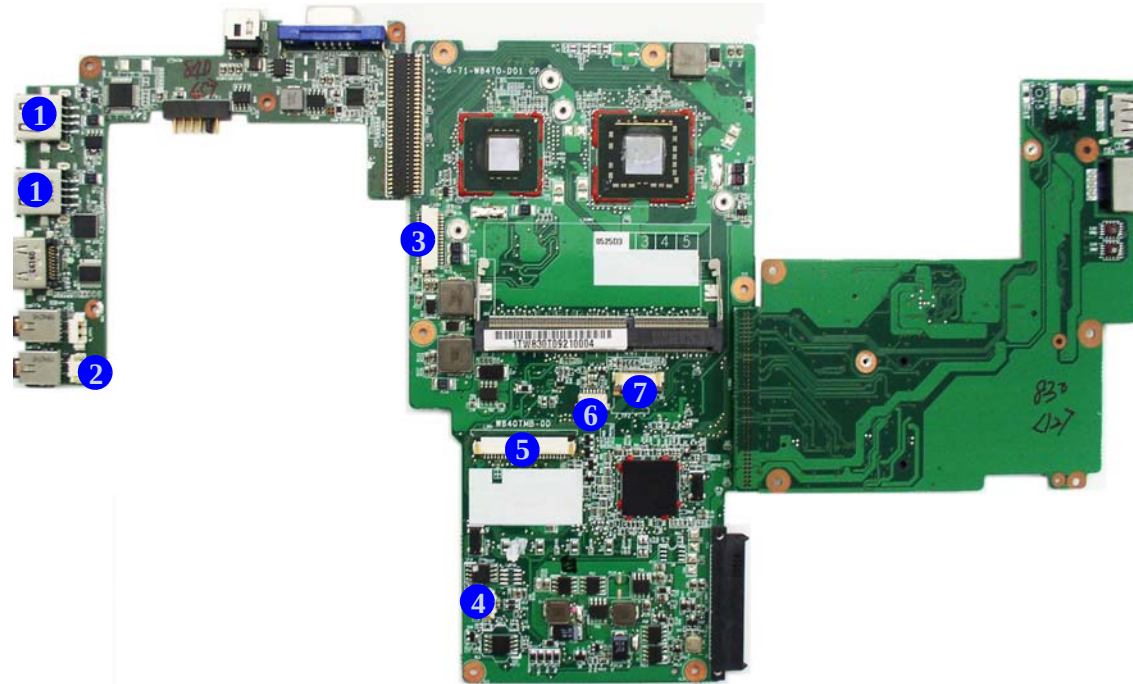
Figure 8
**Mainboard Bottom
Key Parts**

1. KBC ITE IT8502E
2. Mini-Card
Connector (WLAN
Module)
3. ExpressCard
Connector
4. Mini-Card
Connector (3G
Module)
5. Card Reader
Socket

Introduction

Figure 9
**Mainboard Top
Connectors**

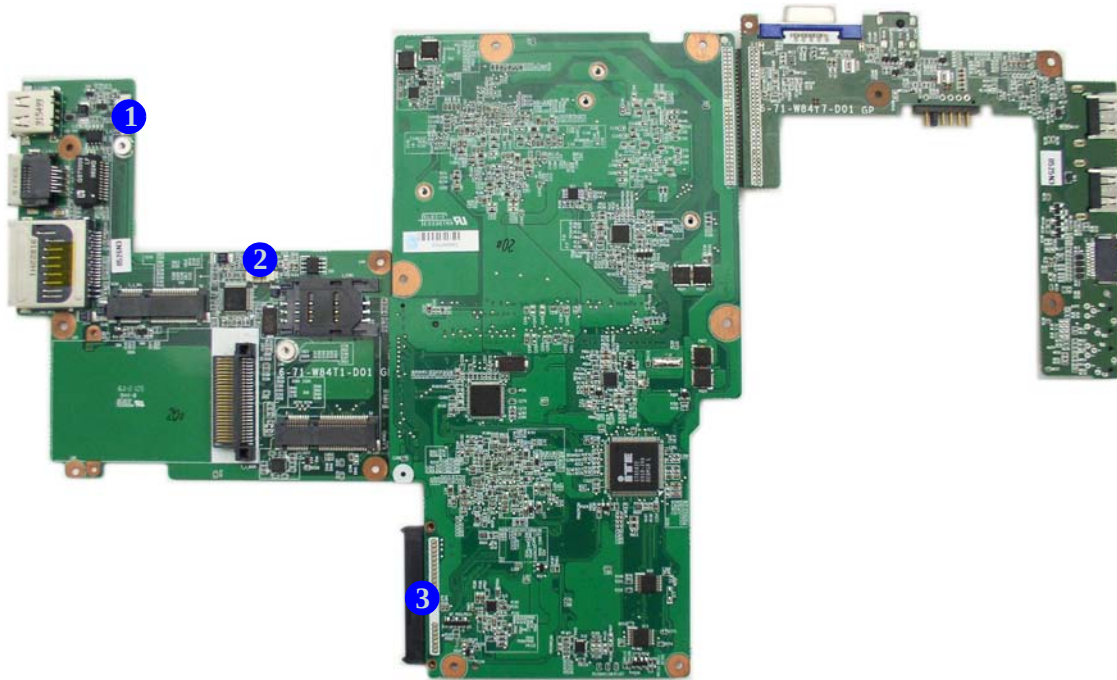
1. USB Port
2. Microphone
Cable Connector
3. LCD Cable
Connector
4. RTC Battery
Connector
5. Keyboard Cable
Connector
6. BT Cable
Connector
7. TouchPad Cable
Connector



Mainboard Overview - Bottom (Connectors)

Figure 10
**Mainboard Bottom
Connectors**

1. CCD Cable Connector
2. Fan Cable Connector
3. HDD Connector



Chapter 2: Disassembly

Overview

This chapter provides step-by-step instructions for disassembling the **W830T/W830T1/W840T/W840T1** 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 Keyboard:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 8](#)

To remove the System Memory:

1. Remove the battery [page 2 - 5](#)
2. Remove the keyboard [page 2 - 8](#)
3. Remove the system memory [page 2 - 9](#)

To remove the WLAN Module:

1. Remove the battery [page 2 - 5](#)
2. Remove the wireless LAN [page 2 - 10](#)

To remove the 3.75G Module:

1. Remove the battery [page 2 - 5](#)
2. Remove the 3.75G [page 2 - 11](#)

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 in the direction of the arrow ③ and then lift the battery ④ up out of the computer.

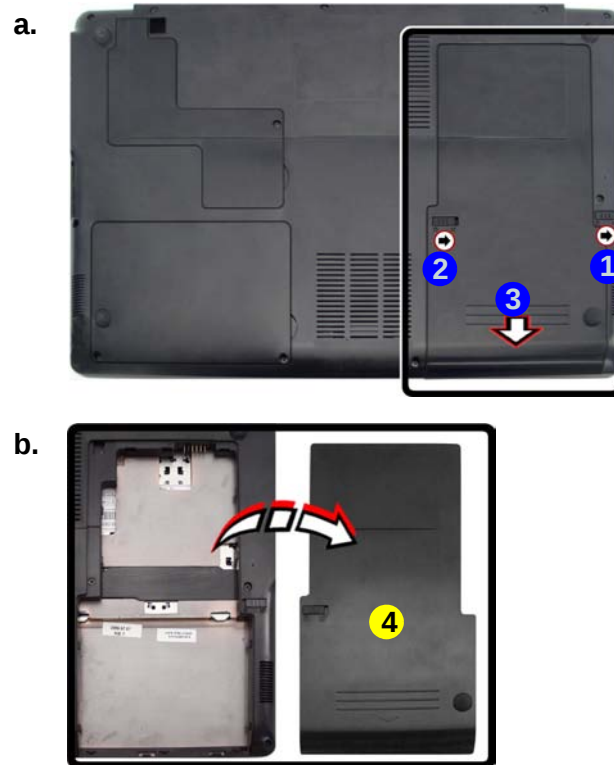


Figure 1
Battery Removal

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



4. Battery

Disassembly

Figure 2
**HDD Assembly
Removal**

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

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

- Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
- Locate the hard disk bay cover and remove screws **1** & **2**.
- Remove the hard disk bay cover **3**.



3. HDD Bay Cover

- 2 Screws



HDD System Warning

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

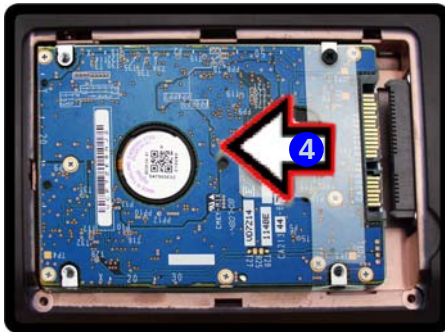
You have backed up any data you want to keep from your old HDD.

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

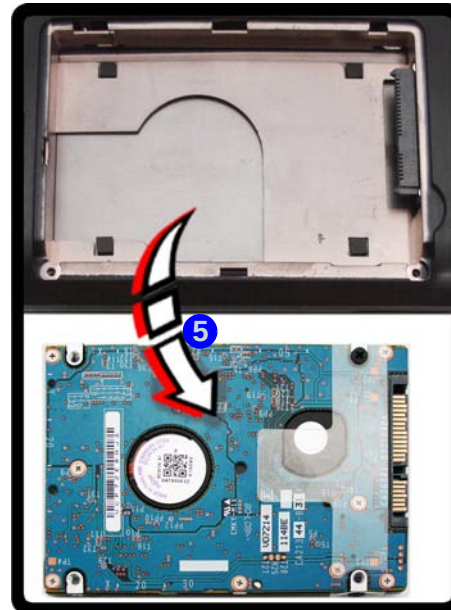
If you have access to the internet, download the latest application and hardware driver updates for the operating system you plan to install. Copy these to a removable medium.

4. Grip the tab and slide the hard disk in the direction of arrow ④.
5. Lift the hard disk assembly up in the direction of the arrow ⑤.
6. Remove screws ⑥ & ⑦ and then remove the cover tab ⑧ from the hard disk ⑨.
7. Reverse the process to install a new hard disk (do not forget to replace all the screws and covers).

c.



d.



e.

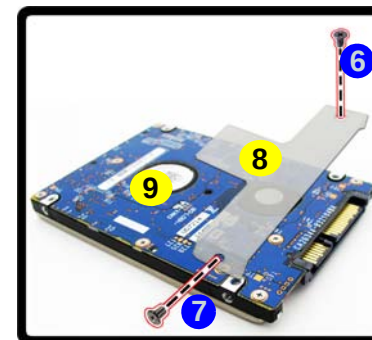


Figure 3
HDD Assembly
Removal (cont'd.)

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



8. Cover Tab
9. HDD

- 2 Screws

Disassembly

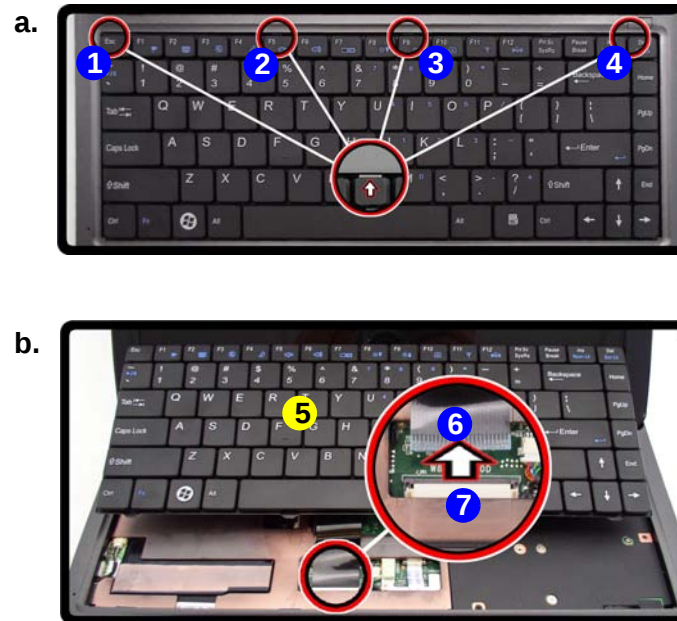
Removing the Keyboard

Figure 4

Keyboard Removal

- Press the four latches to release the keyboard.
- Lift the keyboard up and disconnect the cable from the locking collar to remove the keyboard.

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



Re-Inserting the Keyboard

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



Keyboard Cable

To release this cable, 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.



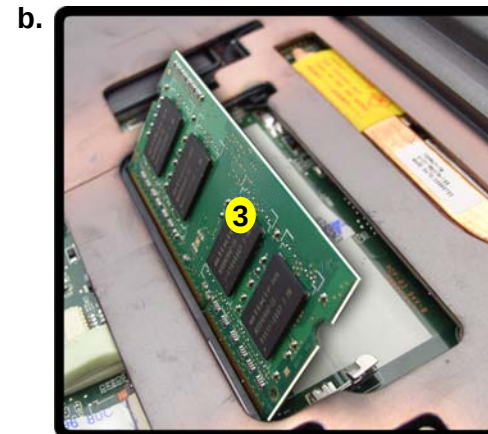
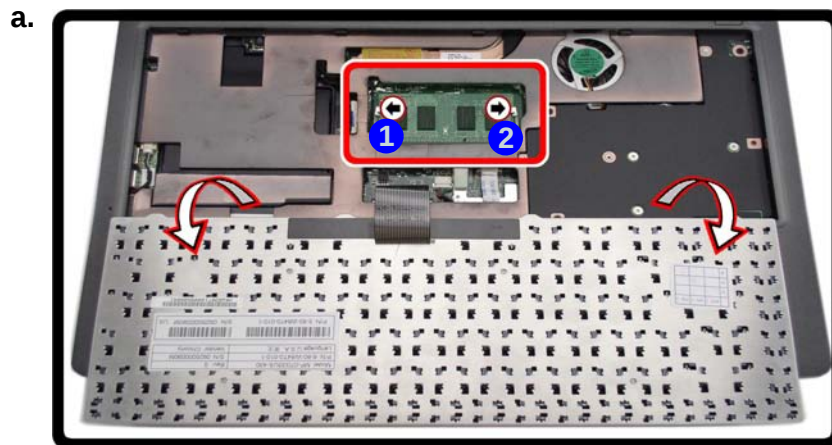
5. Keyboard

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** 800MHz (W830T/W840T)/1066MHz (W830T1/W840T1). The main memory can be expanded up to 2GB. The SO-DIMM modules supported are 1GB, and 2GB 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](#)) and keyboard ([page 2 - 8](#)).
2. Gently pull the two release latches (① & ②) on the sides of the memory socket in the direction indicated by the arrows ([Figure 5a](#)).



3. The RAM module(s) ③ will pop-up ([Figure 5b](#)), and you can then remove it.
4. Pull the latches to release the second module if necessary.
5. Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
6. 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.
7. Press the module in and down towards the mainboard until the slot levers click into place to secure the module.
8. Replace the keyboard.
9. Restart the computer to allow the BIOS to register the new memory configuration as it starts up.

Figure 5
RAM Module Removal

- a. Pull the release latch(es).
- b. Remove the module.



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.



3. RAM Module

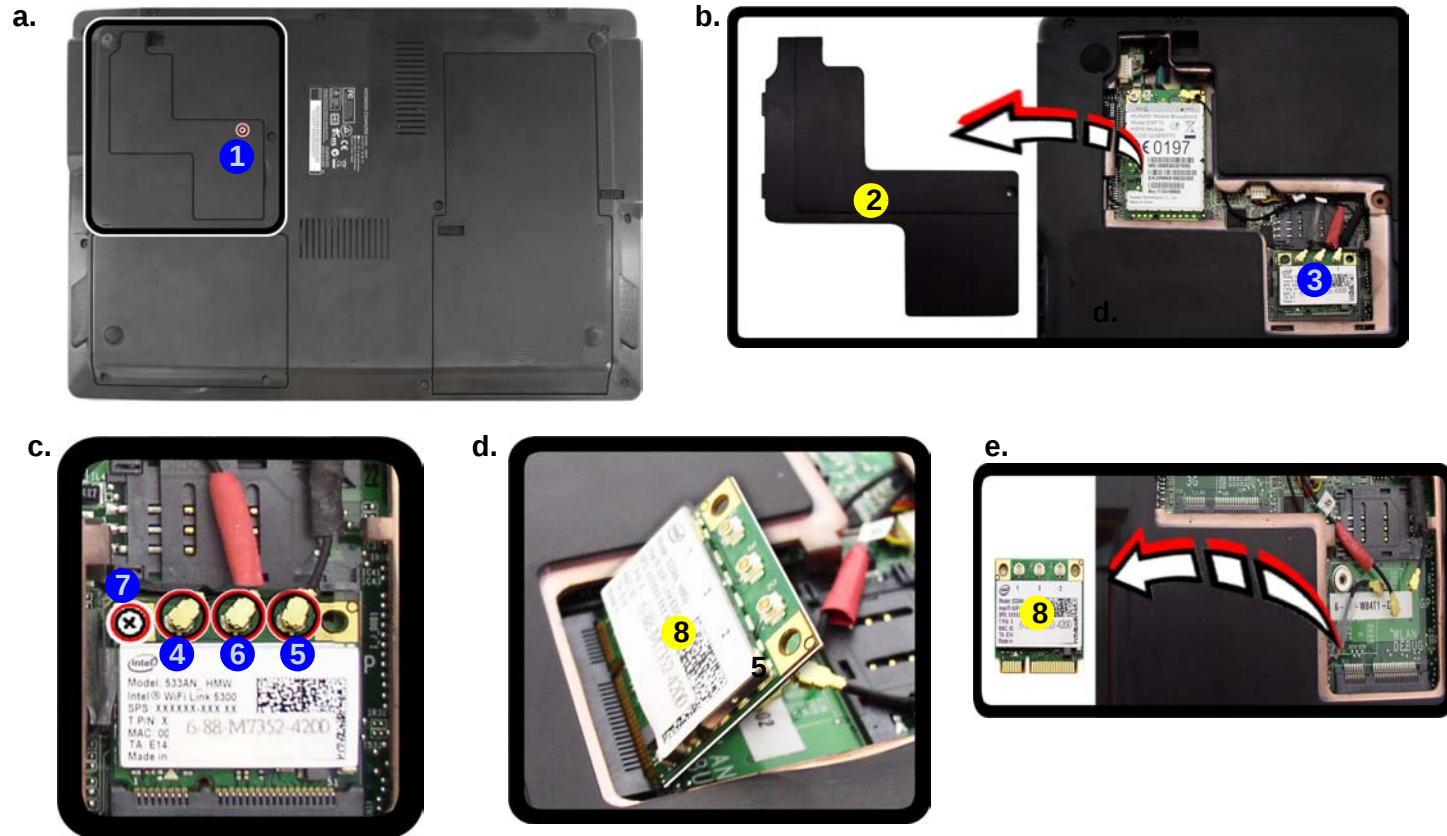
Disassembly

Figure 6
**Wireless LAN
Module Removal**

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

Removing the Wireless LAN Module

- Turn **off** the computer, remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 9](#)).
- Locate the card bay cover and remove the screw **1**.
- Remove the card bay cover **2**.
- The Wireless LAN module will be visible at point **3** on the mainboard.
- Carefully disconnect cables **4** - **6**, then remove screw **7** from the module socket.
- The Wireless LAN module **8** will pop-up.
- Lift the Wireless LAN module ([Figure 6e](#)) up and off the computer.



- 
- Card Bay Cover
 - WLAN Module.

- 2 Screws

Removing the 3.75G Module

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 9](#)).
2. Locate the card bay cover and remove the screw **1**.
3. Remove the card bay cover **2**.
4. The 3.75G module will be visible at point **3** on the mainboard.
5. Carefully disconnect the cable **4**, then remove the screw **5** from the module socket.
6. The 3.75G module **6** will pop-up.
7. Lift the 3.75G module ([Figure 7e](#)) up and off the computer.

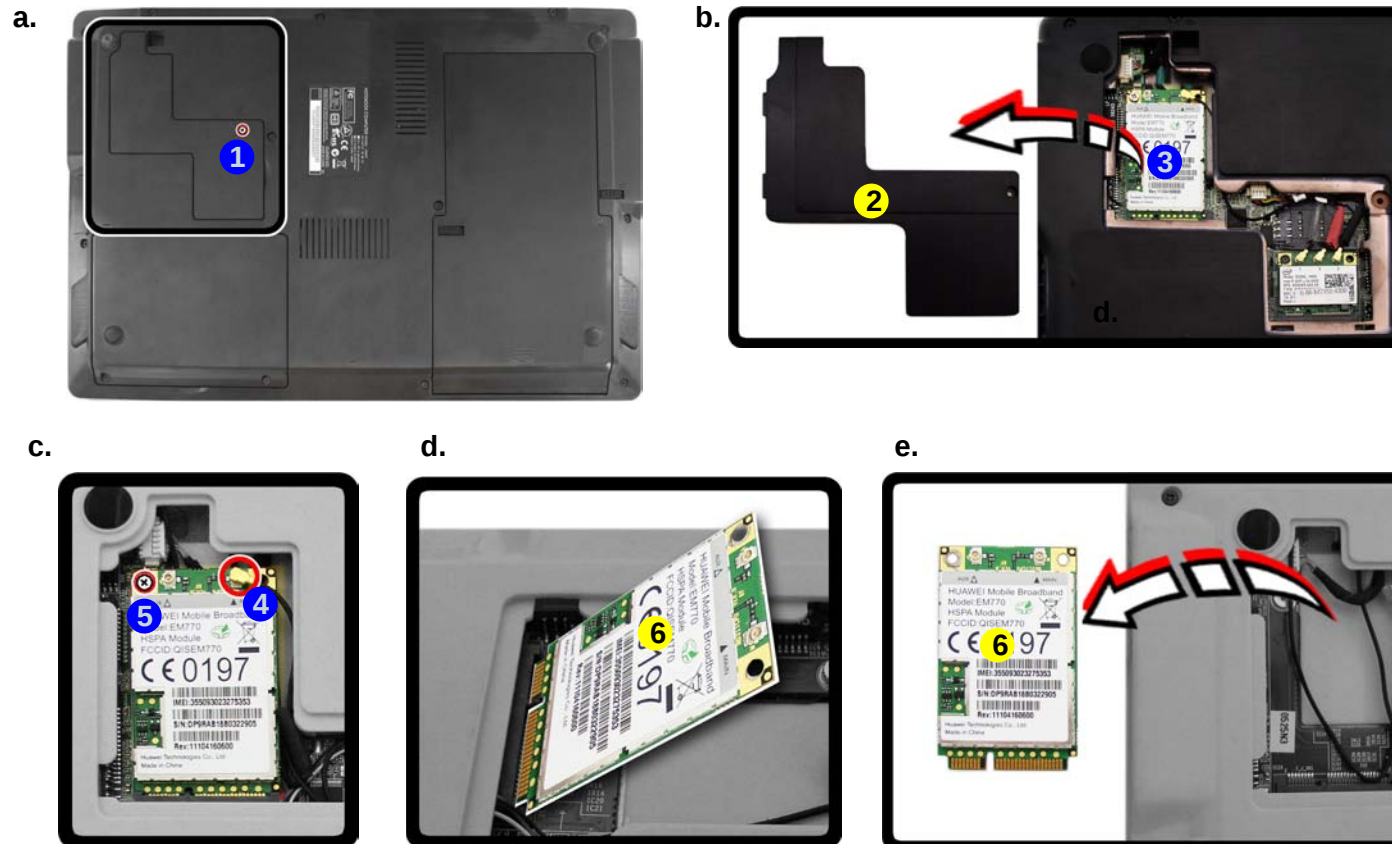
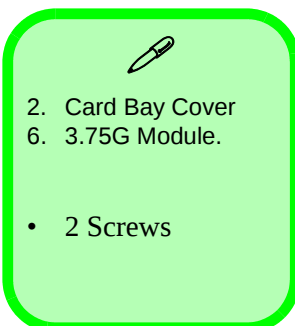


Figure 7
3.75G Module Removal

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



Appendix A: Part Lists

This appendix breaks down the *W830T/W830T1/W840T/W840T1* 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

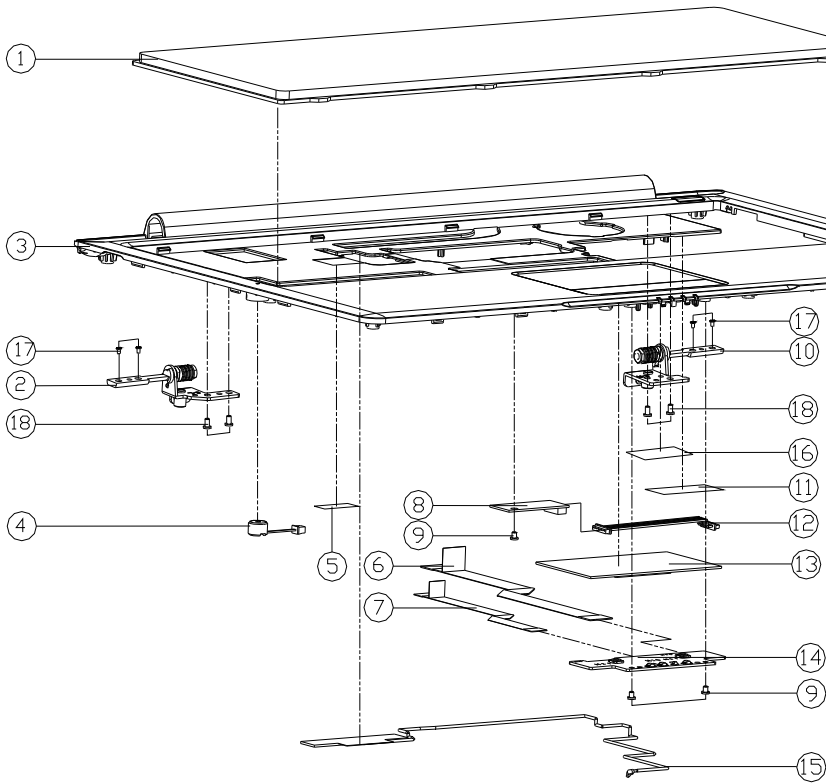
Part List Illustration Location

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

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

Parts	W830T/W830T1	W840T/W840T1
Top	<i>page A - 3</i>	<i>page A - 4</i>
Bottom	<i>page A - 5</i>	<i>page A - 6</i>
LCD	<i>page A - 7</i>	<i>page A - 8</i>
HDD	<i>page A - 9</i>	

Top (W830T/W830T1)

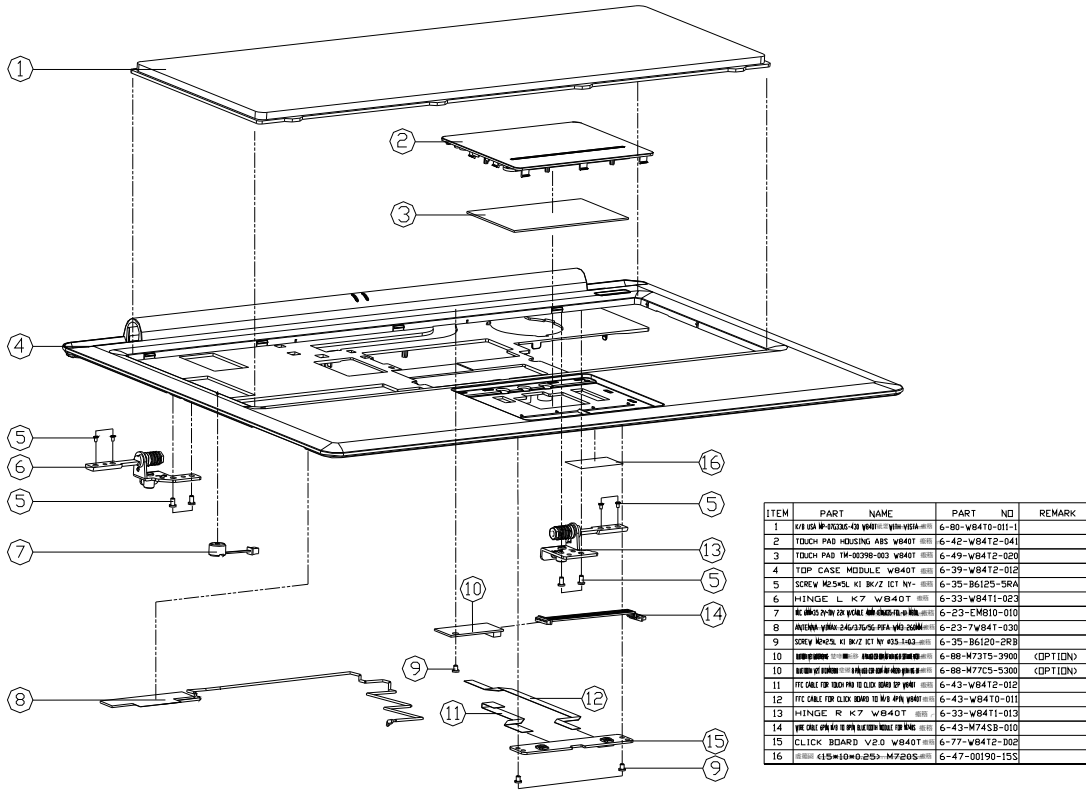


ITEM	PART NAME	PART NO	REMARK
1	K/B USA W-830T05-000 W830T 000 W830T 000	6-80-W84T0-011-1	FOR W830T/W830T
1	K/B USA W-830T05-000 W830T 000 W830T 000	6-80-W8410-010-1	FOR W831T
2	HINGE L K7-W840T-023	6-33-W84T1-023	
3	TOP CASE MODULE W830T	6-39-W83T2-012	FOR W830T/W830T
3	TOP CASE MODULE W831T	6-39-W83T2-011	FOR W831T
4	LC CABLE FOR W830T	6-23-EM810-010	
5	LVDS CABLE MYLAR T60 W830T	6-40-W83T2-010	
6	ITC CABLE TOPIN W830T TO CLICK BOARD W830T	6-43-W83T0-011	
7	ITC CABLE FOR TOUCH PAD TO CLICK BOARD W830T	6-43-W84T2-012	
8	TOUCH PAD W830T	6-88-M73T5-3900	<OPTION>
8	TOUCH PAD W831T	6-88-M73T5-3900	<OPTION>
9	SCREW M2.5xL K1 BK/2 ICT NY 435-1403	6-35-B6120-2RB	
10	HINGE R K7 W840T-013	6-33-W84T1-013	
11	LCD HINGE COVER R PCHAS W831T	6-42-W8311-011	FOR W831T
11	TAPE MYLAR (B) MYLAR M550J	6-40-M55J2-020	
12	CLICK BOARD V2.0 W830T	6-43-M745B-010	
13	TOUCH PAD TH-80398-003 W840T	6-49-W84T2-020	
14	CLICK BOARD V2.0 W830T	6-77-W83T2-002	
15	ANTENNA W830T 24G/3.1G/5G PPA W830T	6-23-W84T1-030	
16	TOUCH PAD W830T	6-47-M8101-030	
17	SCREW M2.5xL K1 BK/2 ICT NY 435-1403	6-35-B1125-6RA	
18	SCREW M2.5xL K1 BK/2 ICT NY 435-1403	6-35-B6125-5RA	

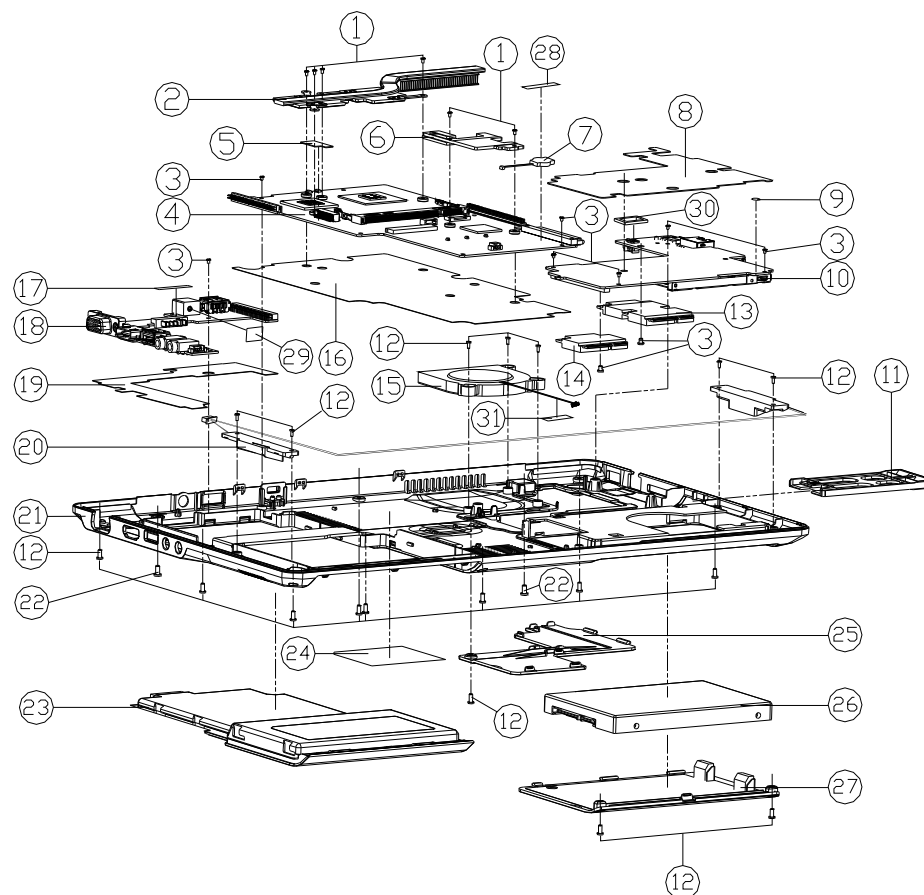
Figure A - 1
Top (W830T/
W830T1)

Top (W840T/W840T1)

Figure A - 2
Top (W840T/
W840T1)



Bottom (W830T/W830T1)



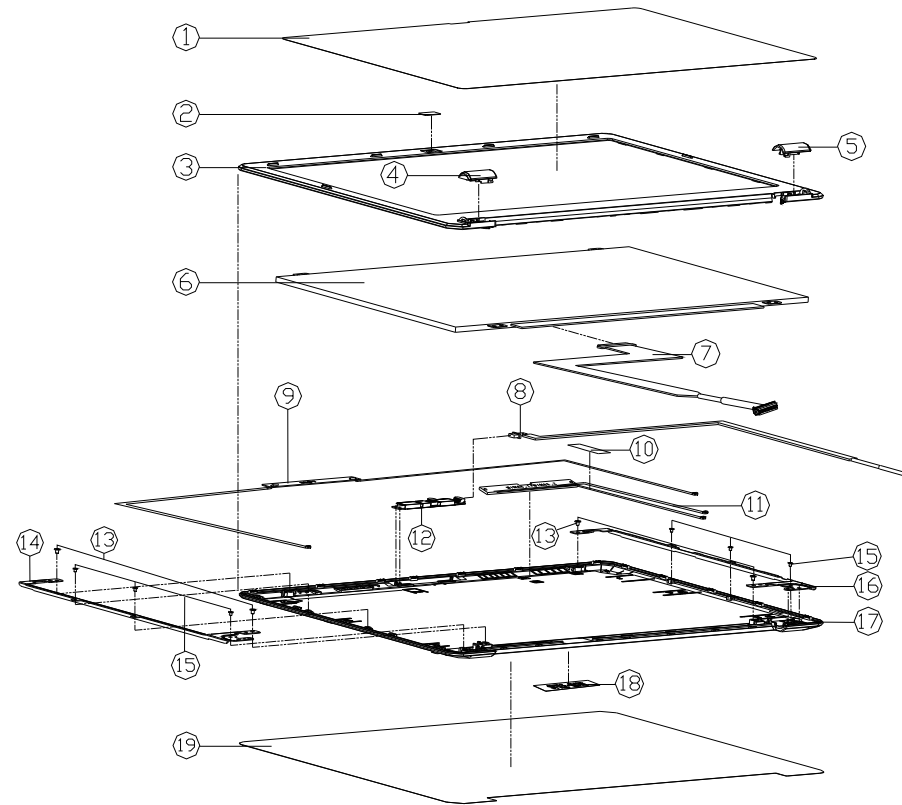
ITEM	PART	NAME	PART	NO	REMARK
5	1/2" BORE INCH 1/2" ID	W/400 IN	6-35	31120-30	
6	COP THERMAL, MIDDLE	W/300 IN	6-31	30732-102	
7	SCREW M2X40 L/1 B/2 CT NY-13	W/400 IN	6-35	36120-108	
8	MAIN BOARD V20A G2540	W/300 IN	6-77	W/300-120A	
9	TOP BOARD TOP MILAN PCB#1	W/400 IN	6-40	W/400-154-050	
6	SOUTH BRIDGE HEATSINK	W/400 IN	6-31	W/404-111	
7	7	7	6-23	20205-1P2C	
8	1/2" BORE INCH 1/2" ID	W/400 IN	6-40	W/404-111	
9	1/2" BORE INCH 1/2" ID	W/400 IN	6-40	W/404-111	
10	1/2" BORE INCH 1/2" ID	W/400 IN	6-77	W/300-120A	
11	DUMMY NEW CARD PCB#45	W/300 IN	6-42	6-3133-030	
12	SCREW M2X40 L/1 B/2 CT NY-13	W/400 IN	6-35	36120-108	
13	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
14	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
15	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
16	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
17	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
18	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
19	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
20	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
21	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
22	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
23	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
24	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
25	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
26	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
27	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
28	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
29	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
30	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
31	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
32	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
33	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
34	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
35	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
36	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
37	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
38	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
39	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
40	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
41	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
42	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
43	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
44	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
45	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
46	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
47	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
48	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
49	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
50	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
51	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
52	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
53	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
54	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
55	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
56	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
57	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
58	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	
59	1/2" BORE INCH 1/2" ID	W/400 IN	6-88	M800-1800	

Figure A - 3
Bottom
(W830T/W830T1)

Part Lists

Bottom (W840T/W840T1)

Figure A - 4
Bottom
(W840T/W840T1)



ITEM	PART	NAME	PART	NO	REMARK
1	LCD PROTECT MYLAR	PCB010 W840T	6-40-W84T1-030		
2	CCD MYLAR	PCB010 W840T	6-40-W84T1-011		W/ CCD
3	W/D CCD MYLAR	PCB010 W840T	6-40-W84T1-022		W/D CCD
4	LCD FRONT COVER MODULE	W840T	6-39-W84T1-012		
5	LCD HINGE COVER L	PC+ABS W840T	6-42-W84T1-021		
6	LCD HINGE COVER R	PC+ABS W840T	6-42-W84T1-011		
7	LCD HRP	HP 40 W840T	6-50-J8136-000		
8	LCD HRP	HP 40 W840T	6-50-J8136-000		
9	WIRE CABLE FOR LCD	TO W840T	6-43-W84T1-012		
10	WIRE CABLE FOR LCD	TO W840T	6-43-W84T1-012		
11	TAPE MYLAR	CD MYLAR M550J	6-40-M55J2-030		
12	DVC CEMENT RESIN	TX DVC M550J	6-23-7W84T-020		
13	SCREW	M2.5X4.0	6-88-M810C-4910		
14	BACK COVER BRACKET L	SECC W840T	6-35-B6120-2RB		
15	SCREW	M4X6.0	6-33-W84T1-041		
16	SCREW	M4X6.0	6-35-B2116-2R0		
17	BACK COVER BRACKET R	SECC W840T	6-33-W84T1-031		
18	LCD BACK COVER MODULE	W840T	6-39-W84T1-022		
19	LCD BACK COVER MODULE	W840T	6-39-W84T1-022		
20	LCD BACK COVER PROTECT MYLAR	W840T	6-45-M741S-020		
21	LCD BACK COVER PROTECT MYLAR	W840T	6-40-W84T1-010		

LCD (W830T/W830T1)

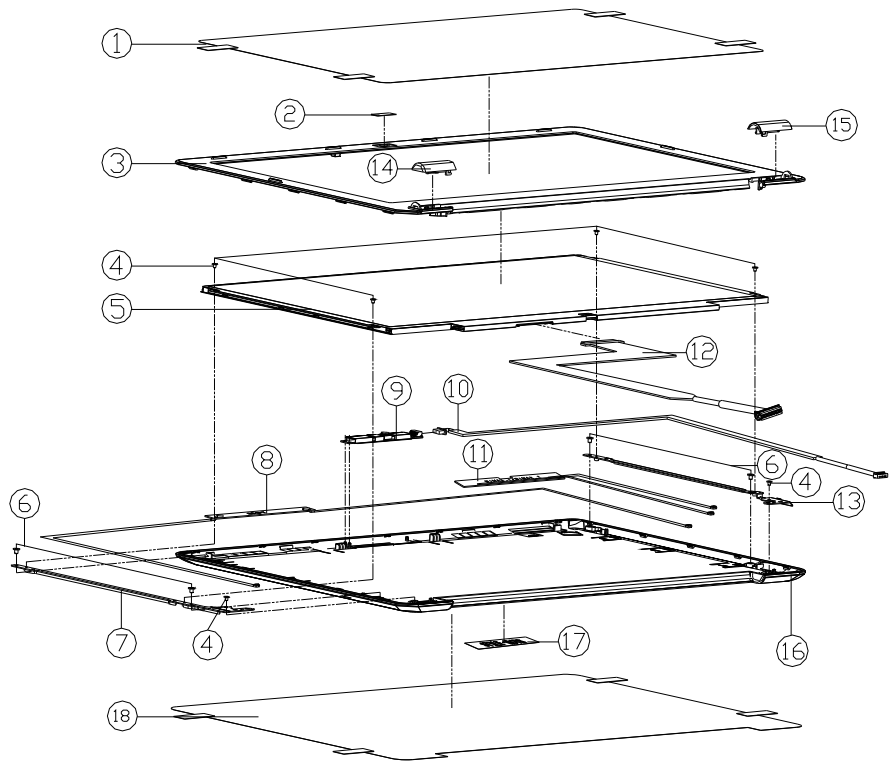


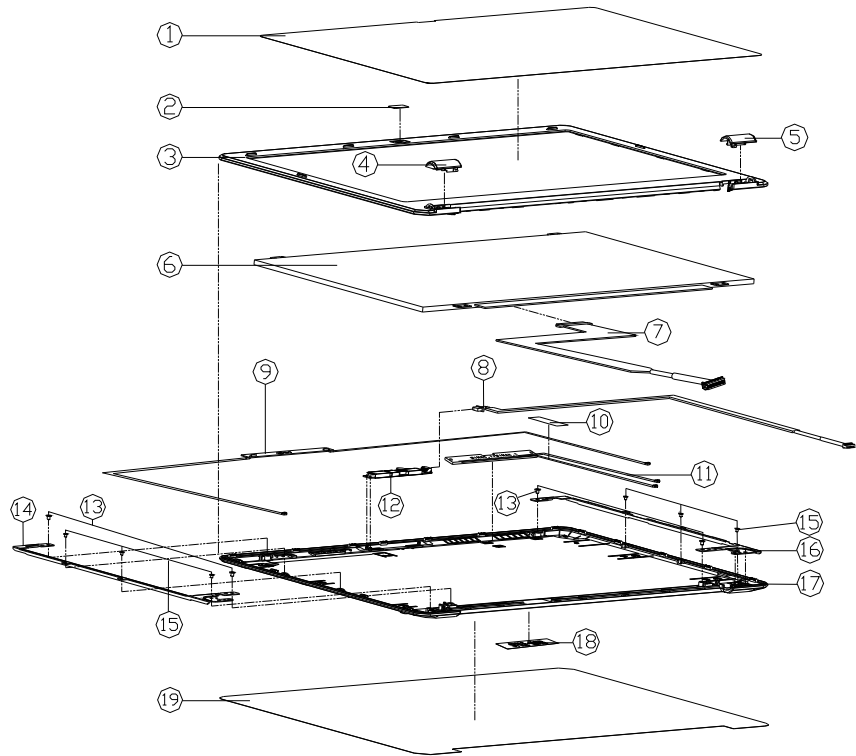
Figure A - 5
LCD
(W830T/W830T1)

ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER PROTECT FILM PET W830T	6-40-W831T-010	
2	CCD MYLAR PCB010 W840T	6-40-W841T-011	W/ CCD
3	W/O CCD MYLAR PCB010 W840T	6-40-W841T-020	W/O CCD
4	LCD FRONT COVER MODULE W830T	6-39-W831T-012	
5	LCD 13.1" HD AU BEZEL V8 GLARE TYPE	6-35-B2116-2R0	
6	LCD 13.1" HD LG LTP200000 GLARE TYPE	6-50-G8136-L00	
7	LCD 13.1" HD LG LTP200000 GLARE TYPE	6-50-G8136-L00	
8	LCD BKT L SECC 0.5T W830T	6-33-W831T-022	
9	LCD BKT R SECC 0.5T W830T	6-33-W831T-022	
10	LCD HINGE COVER L PC+ABS W830T	6-42-W831T-021	FOR W830T/W832T
11	LCD HINGE COVER R PC+ABS W830T	6-42-W831T-021	FOR W831T
12	LCD BACK COVER MODULE W830T	6-42-W831T-011	FOR W830T/W832T
13	LCD BACK COVER MODULE W830T	6-42-W831T-011	FOR W831T
14	LCD BACK COVER MODULE W830T	6-39-W831T-022	
15	LCD BACK COVER MODULE W830T	6-39-W831T-021	
16	LCD BACK COVER MODULE W830T	6-39-W832T-022	
17	LCD BACK COVER PROTECT FILM BRUS W830T	6-45-M741S-020	
18	LCD BACK COVER PET T-1025M W830T	6-40-W831T-020	FOR W830T
18	LCD BACK COVER PET T-1025M W830T	6-40-W831T-040	FOR W831T/W832T

Part Lists

LCD (W840T/W840T1)

Figure A - 6
LCD
(W840T/W840T1)



ITEM	PART NAME	PART NO	REMARK
1	LCD PROTECT MYLAR PET-MERID W840T	6-40-W84T1-030	
2	CCD MYLAR PC8010 W840T	6-40-W84T1-011	W/ CCD
2	W/D CCD MYLAR PC8010 W840T	6-40-W84T1-026	W/D CCD
3	LCD FRONT COVER MODULE W840T	6-39-W84T1-012	
4	LCD HINGE COVER L PC-ABS W840T	6-42-W84T1-021	
5	LCD HINGE COVER R PC-ABS W840T	6-42-W84T1-011	
6	LCD TAP NO LG BRADDER V1 GLASS HINGE	6-50-J8136-C00	
6	LCD TAP NO LG LPHINGE V1 GLASS HINGE	6-50-J8136-L00	
7	WIRE CABLE FOR LCD TO M9 SP	6-43-W84T1-012	
8	WIRE CABLE FOR CCD TO M9 SP	6-43-W84T1-012	
9	TAPE MYLAR CCD MYLAR MODUL	6-23-7W84T-011	
10	TAPE MYLAR CCD MYLAR MODUL	6-40-W84T1-030	
11	WIRE CABLE FOR LCD TO M9 SP	6-23-7W84T-020	
12	LCD COVER BRACKET L IN BRACKET	6-35-B6120-4910	
13	SCREW M4X0.8 L BRACKET IN BRACKET	6-35-B6120-29RB	
14	BACK COVER BRACKET L SECC W840T	6-33-W84T1-041	
15	SCREW M4X0.8 L BRACKET L SECC W840T	6-35-B2116-29RB	
16	BACK COVER BRACKET R SECC W840T	6-33-W84T1-031	
17	LCD BACK COVER MODULE W840T	6-39-W84T1-022	
17	LCD BACK COVER MODULE W840T	6-29-W84T1-022	
18	TAPE MYLAR CCD MYLAR MODUL	6-45-W84T1-020	
19	LCD BACK COVER PROTECT MYLAR W840T	6-40-W84T1-010	

HDD (W830T/W830T1/W840T/W840T1)

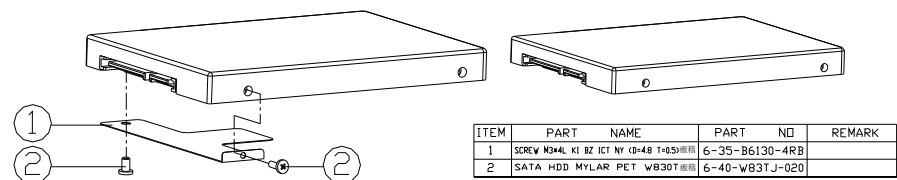


Figure A - 7
HDD
(W830T/W830T1/
W840T/W840T1)

Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the **W830T/W830T1/W840T/W840T1** 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
System Block Diagram - Page B - 2	ICH9-M SFF 5/5, GND - Page B - 18	W830T Multi (AC_In, Charger) - Page B - 34
Clock Generator - Page B - 3	EC KBC-ITE IT8502E - Page B - 19	W830T Multi (HDMI/CRT Port) - Page B - 35
Penryn SFF 1/3 - Page B - 4	Power VCore - Page B - 20	W830T to CPU Conn (Jack, USB) - Page B - 36
Penryn SFF 2/3 - Page B - 5	Power 1.5V/0.75V/1.5VS - Page B - 21	W830T Click Board (LED) - Page B - 37
Penryn SFF 3/3 - Page B - 6	Power 1.8V/1.05VS - Page B - 22	System Block Diagram (W840T) - Page B - 38
Cantiga SFF 1/6, PEG - Page B - 7	Power VGA GPU (VGFX_Core) - Page B - 23	W840T I/O (JMC251) - Page B - 39
Cantiga SFF 2/6, CLK - Page B - 8	Power 5VS, 3VS, 3.3V, 5V - Page B - 24	W840T I/O (CCD, MINI, WLAN/3G) - Page B - 40
Cantiga SFF 3/6, DDR - Page B - 9	Power VDD3/VDD5 - Page B - 25	W840T I/O (New Card, Fan, USB) - Page B - 41
Cantiga SFF 4/6, Power 1 - Page B - 10	LCD/CCD/Click/BT Conn - Page B - 26	W840T I/O to MB Conn (SW) - Page B - 42
Cantiga SFF 5/6, Power 2 - Page B - 11	To Multi, I/O Conn, W840T LED - Page B - 27	W840T Multi (Audio ALC272) - Page B - 43
Cantiga SFF 6/6, GND - Page B - 12	System Block Diagram (W830T) - Page B - 28	W840T Multi (AC_In, Charger) - Page B - 44
DDR3 So-DIMM_0 - Page B - 13	W830T I/O (JMC251) - Page B - 29	W840T Multi (HDMI/CRT Port) - Page B - 45
ICH9-M SFF 1/5, SATA, HDD CON - Page B - 14	W830T I/O (CCD, MINI, WLAN/3G) - Page B - 30	W840T to CPU Conn (Jack, USB) - Page B - 46
ICH9-M SFF 2/5, PCI, USB - Page B - 15	W830T I/O (New Card, Fan, USB) - Page B - 31	W840T Click Board (LED) - Page B - 47
ICH9-M SFF 3/5, GPIO - Page B - 16	W830T I/O to MB Conn (SW) - Page B - 32	
ICH9-M SFF 4/5, Power - Page B - 17	W830T Multi (Audio ALC272) - Page B - 33	

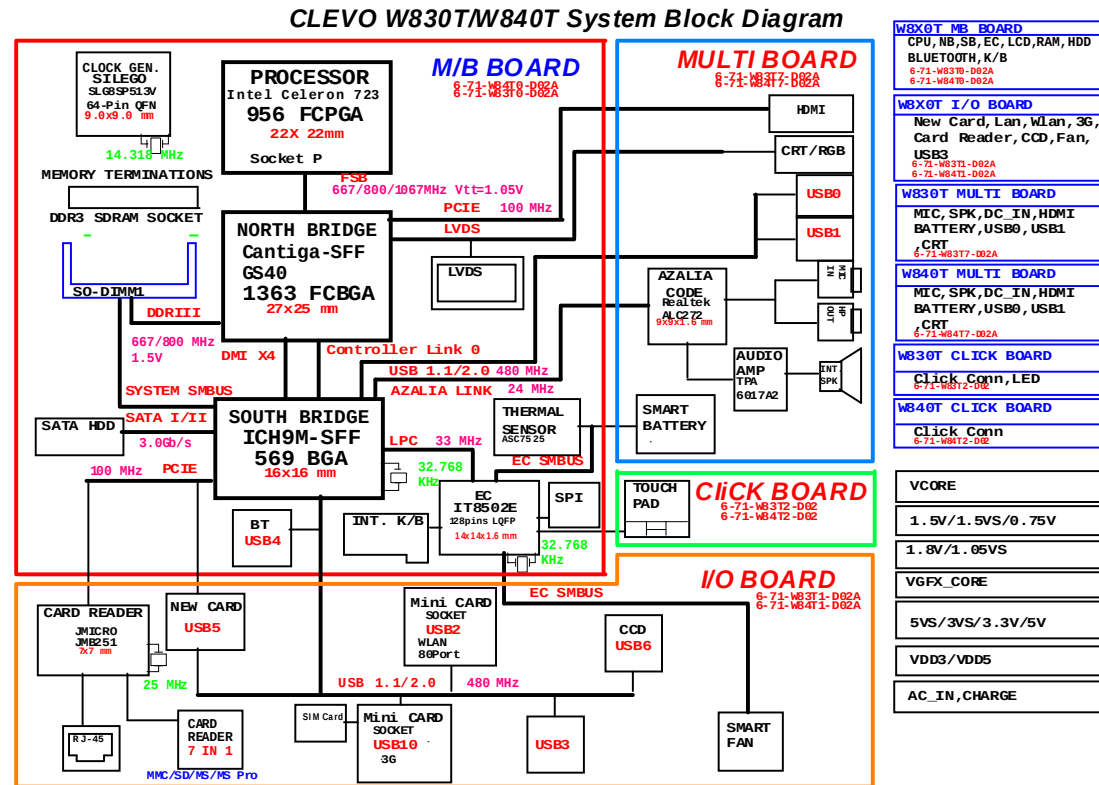


Version Note

The schematic diagrams in this chapter are based upon version 6-7P-W83T3-003/6-7P-W84T3-003. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

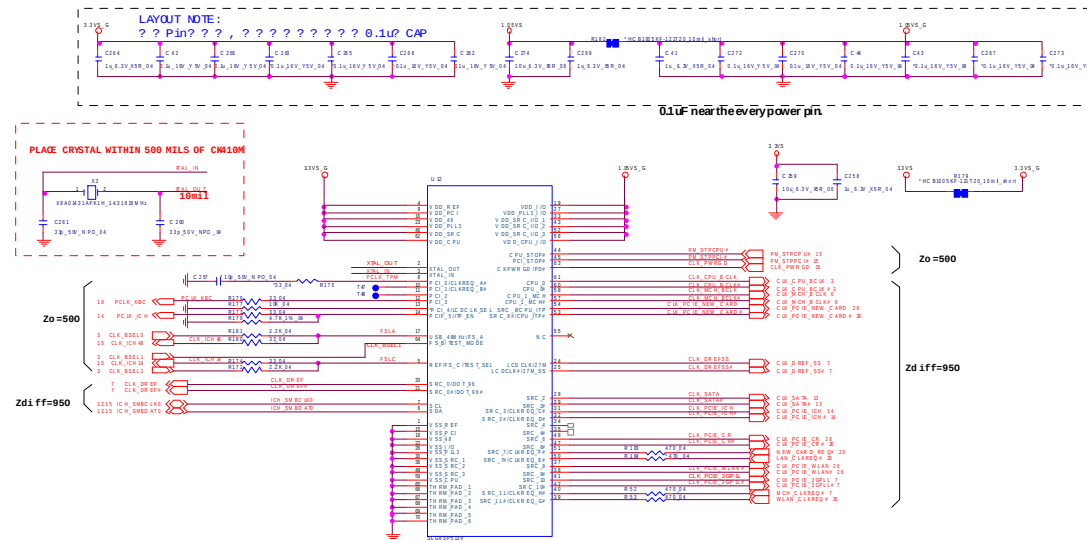
System Block Diagram

Sheet 1 of 46
System Block
Diagram



Clock Generator

CLOCK GENERATOR



FSLC	FSL#	FSLA	C#0#05
BSL#2	BSL#1	BSL#0	FS#0#05
0	0	0	20#0#05
0	1	0	20#0#05
0	1	1	20#0#05

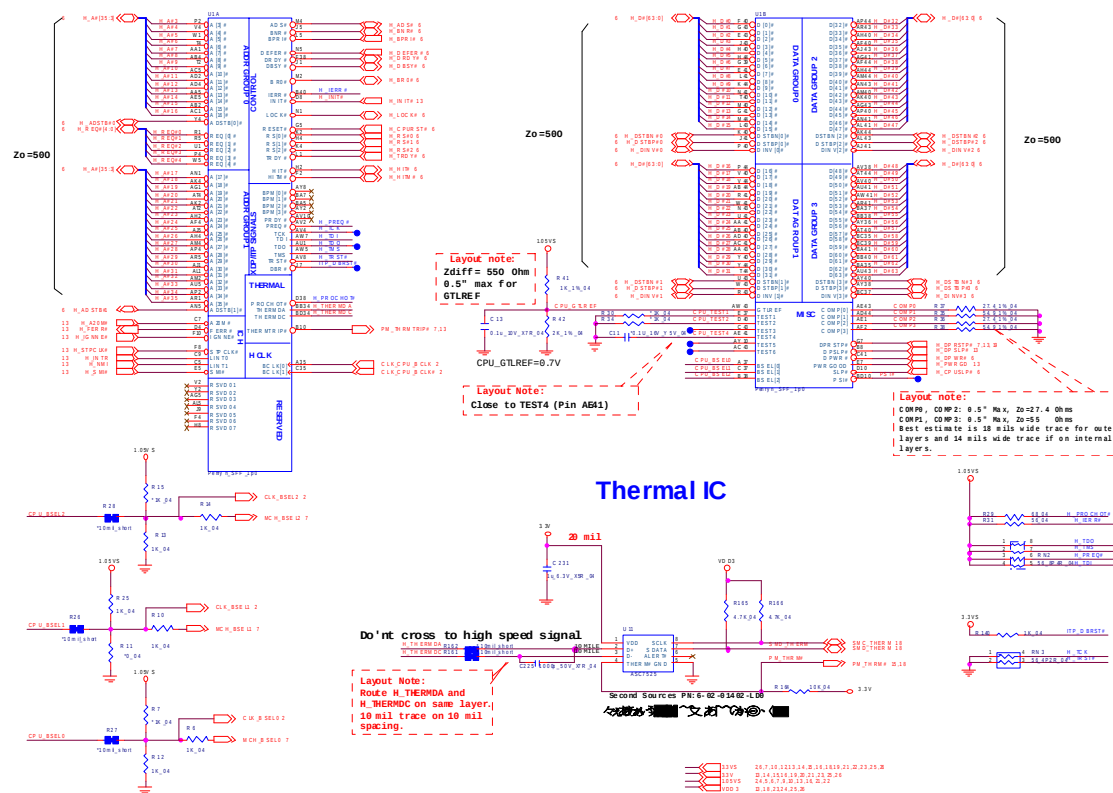
Pin64/53	Pin28/29	Pin31/32	Pin34/35	Pin48/47	Pin37/38	Pin41/42
SRC8	SRC2	SRC3	SRC4	SRC6	SRC9	SRC10
NEW_CARD	CLK_S#A#	PCIE_IOH	PCIE_GLAM	PCIE_CR	PCIE_WLAN	PCIE_3PLL
Pin61				Pin50	Pin09	Pin40
CR#_F				CR#_E	CR#_G	CR#_H
NEW_CARD_REQ#				LW_CLKREQ#	WLAN_CLKREQ#	NCH_CLK_REQ

20#0#05 20#0#05 20#0#05 20#0#05 20#0#05 20#0#05 20#0#05

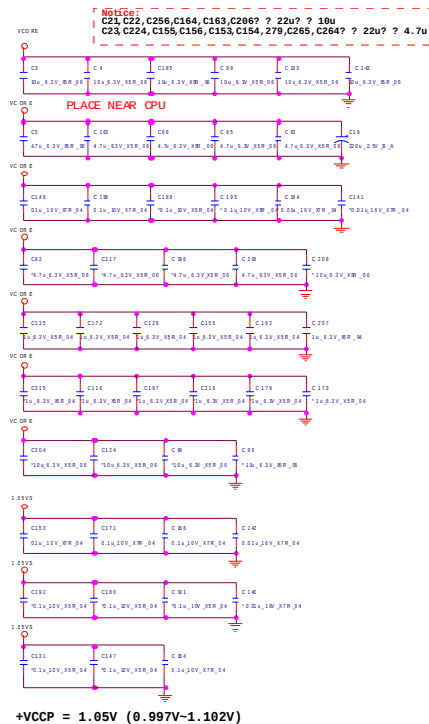
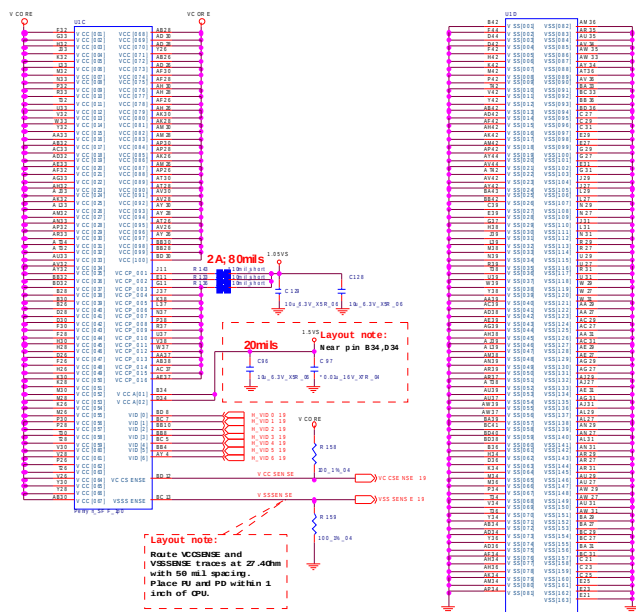
Sheet 2 of 46
Clock Generator

B.Schematic Diagrams

Sheet 3 of 46
Penryn SFF 1/3



Penryn SFF 2/3



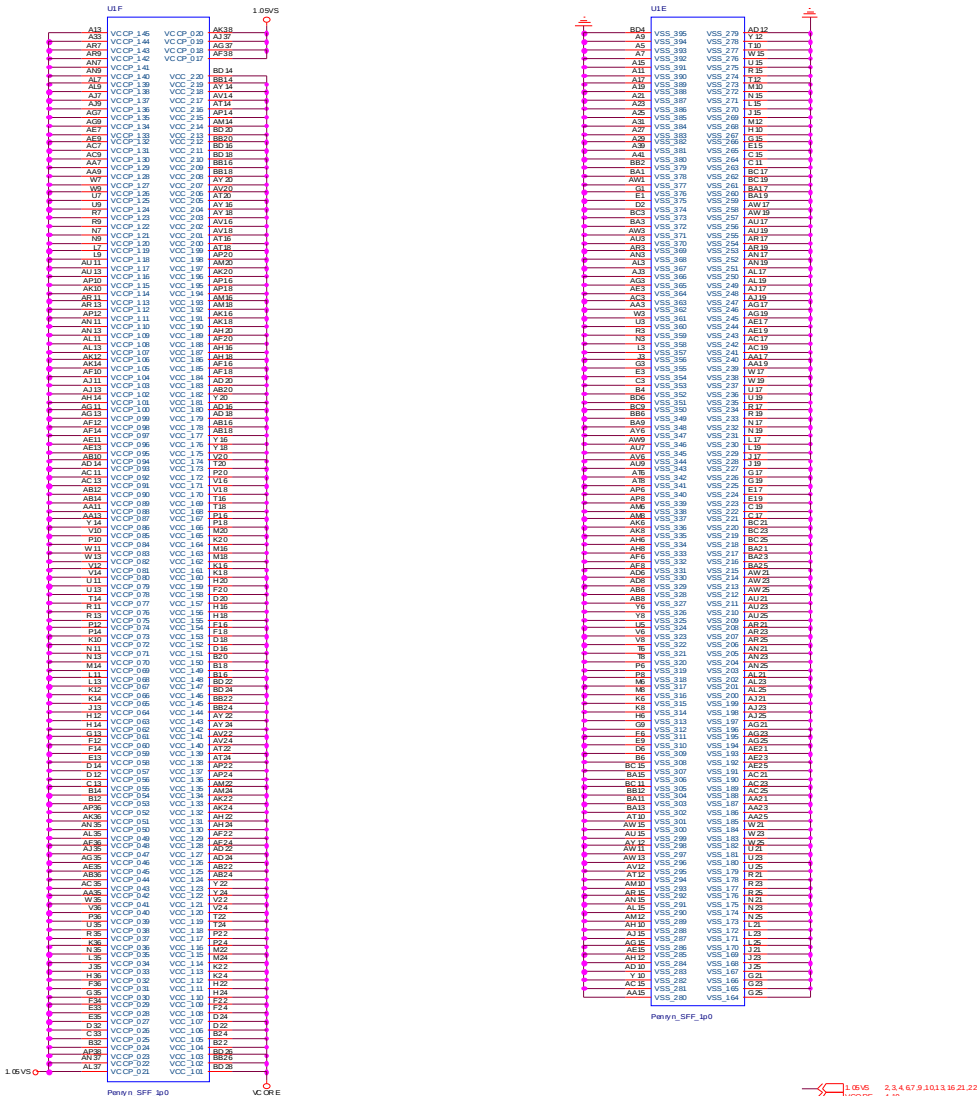
Sheet 4 of 46
Penryn SFF 2/3

B.Schematic Diagrams

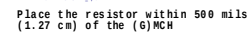
Penryn SFF 3/3

3. Schematic Diagrams

Sheet 5 of 46
Penryn SFF 3/3



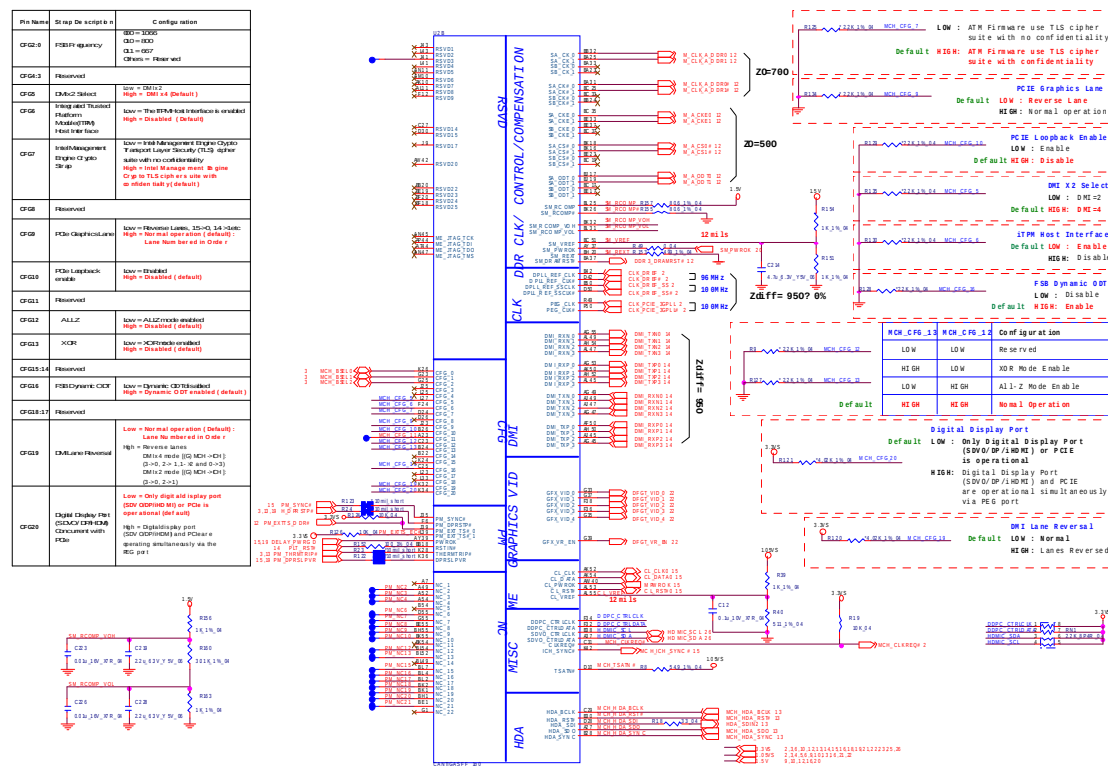
Sheet 6 of 46
Cantiga SFF 1/6,
PEG



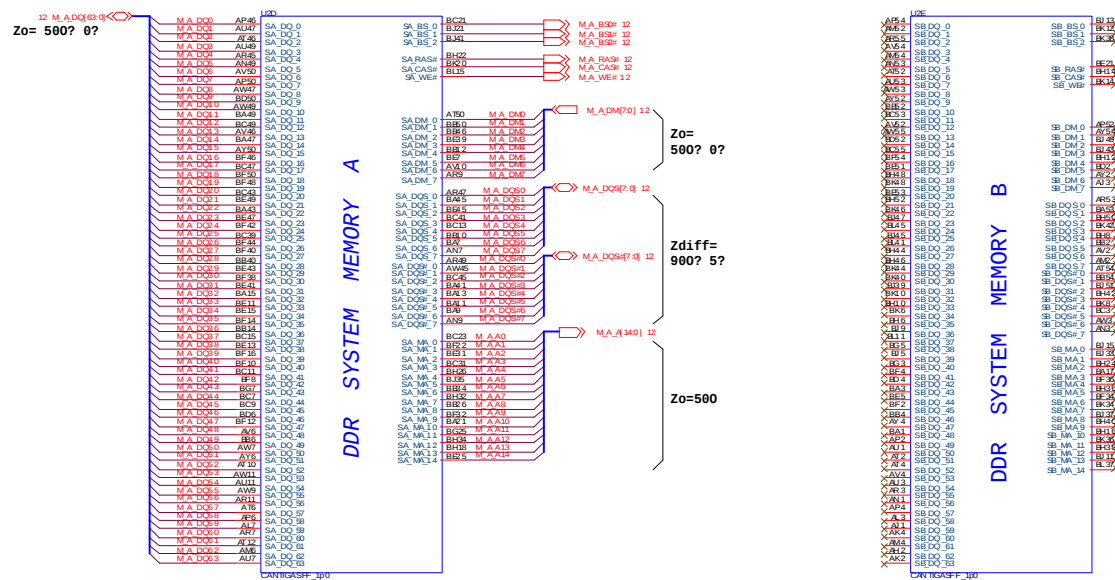
Cantiga SFF 2/6, CLK

B.Schematic Diagrams

Sheet 7 of 46
Cantiga SFF 2/6,
CLK



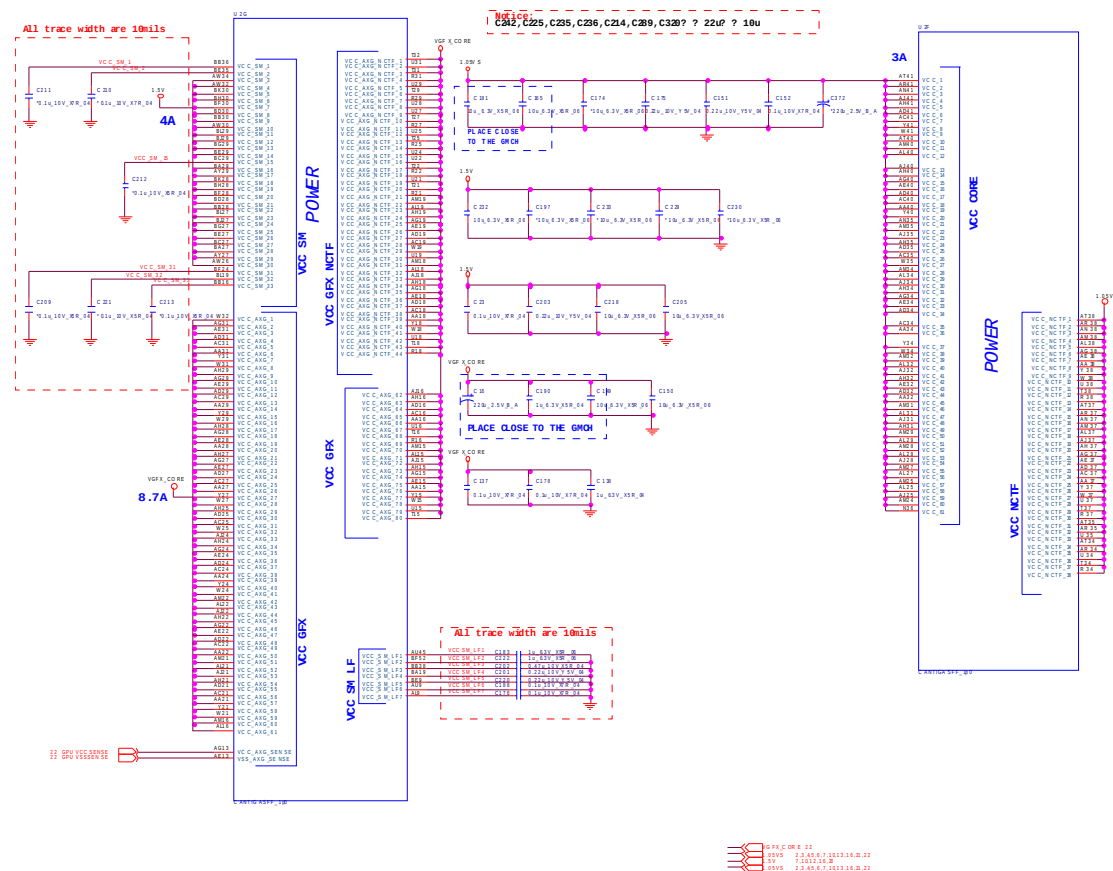
Cantiga SFF 3/6, DDR



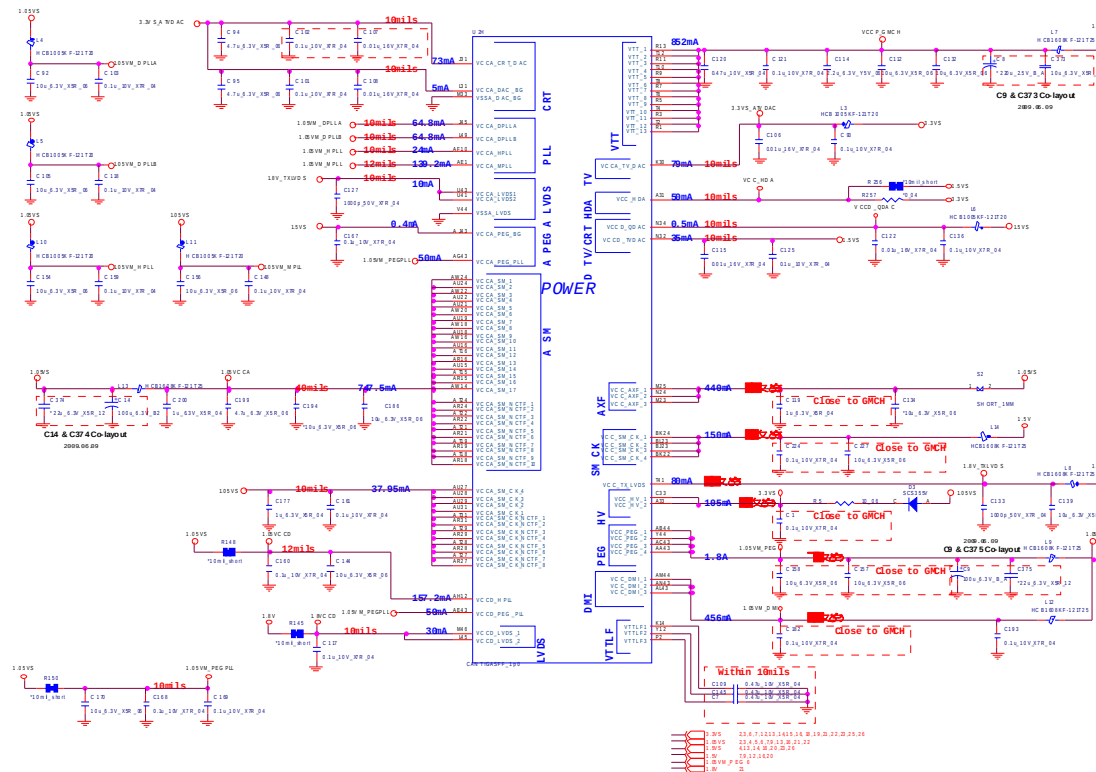
Sheet 8 of 46
Cantiga SFF 3/6,
DDR

Cantiga SFF 4/6, Power 1

Sheet 9 of 46
Cantiga SFF 4/6,
Power 1



Cantiga SFF 5/6, Power 2

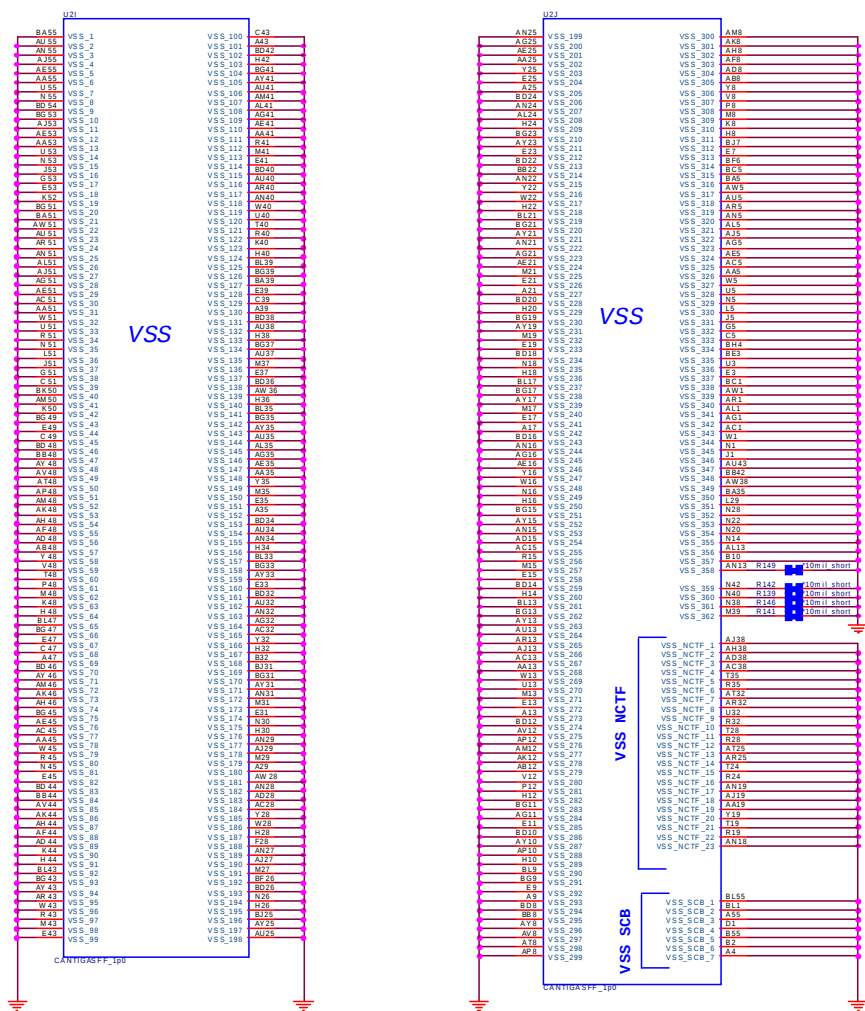


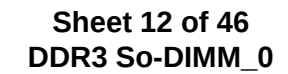
Sheet 10 of 46
Cantiga SFF 5/6,
Power 2

Schematic Diagrams

Cantiga SFF 6/6, GND

Sheet 11 of 46
Cantiga SFF 6/6,
GND

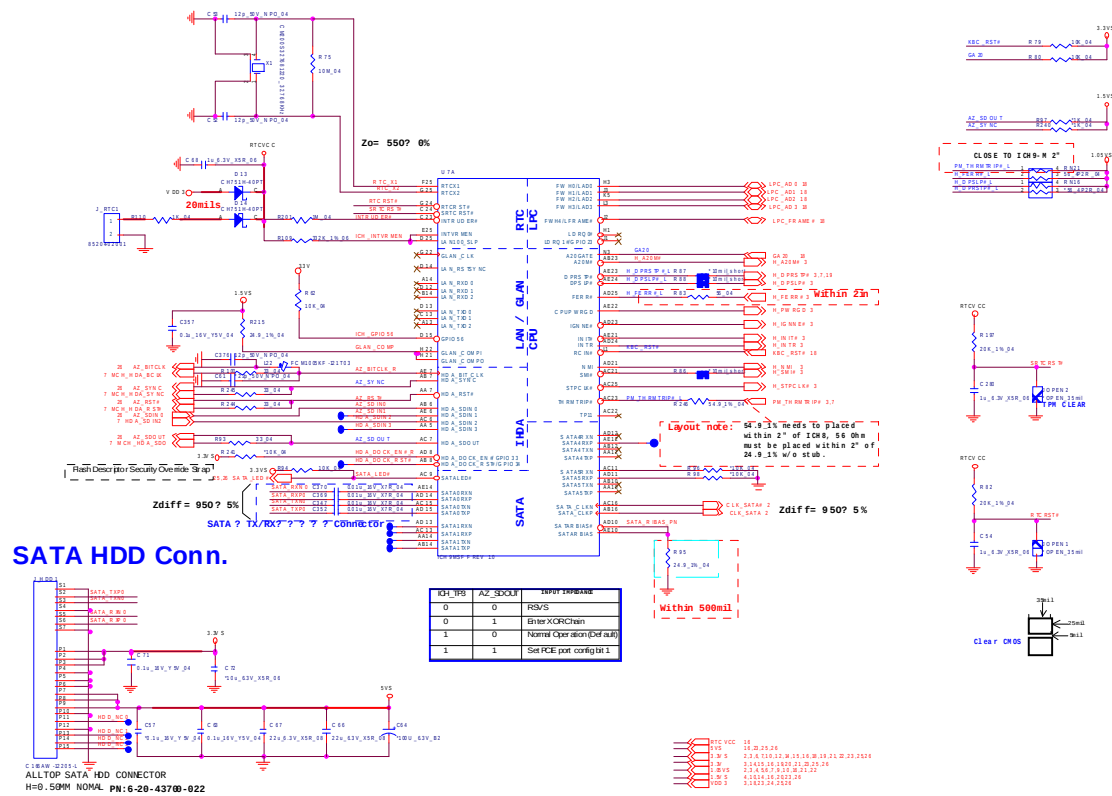


SO-DIMM 0

Schematic Diagrams

ICH9-M SFF 1/5, SATA, HDD CON

Sheet 13 of 46
ICH9-M SFF 1/5,
SATA, HDD CON

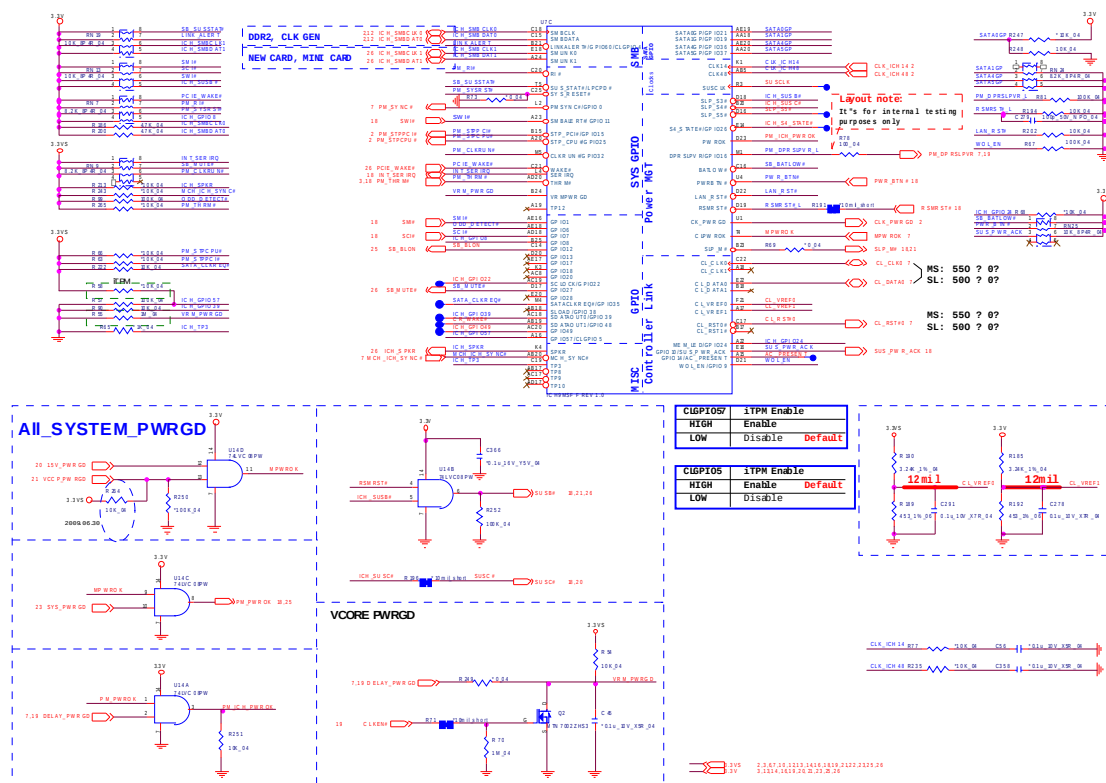


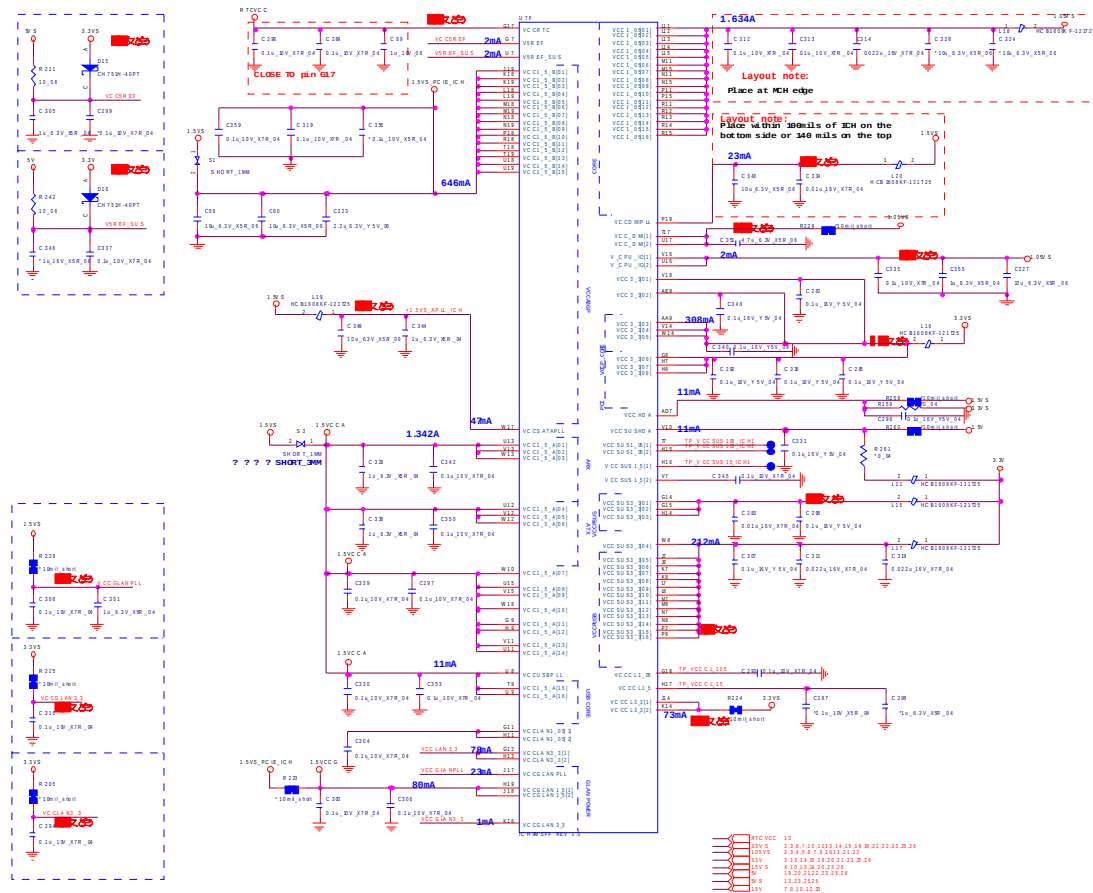
Sheet 14 of 46
ICH9-M SFF 2/5,
PCI, USB



ICH9-M SFF 3/5, GPIO

Sheet 15 of 46
ICH9-M SFF 3/5,
GPIO



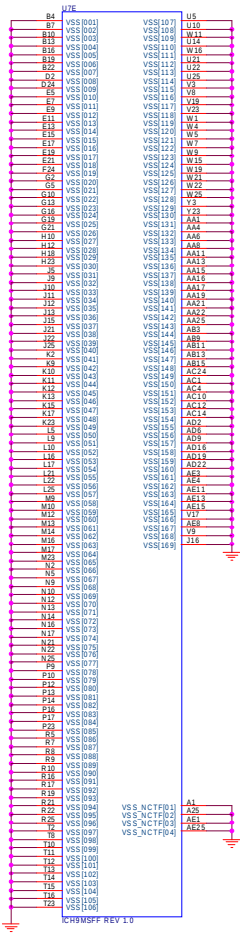


Sheet 16 of 46
ICH9-M SFF 4/5,
Power

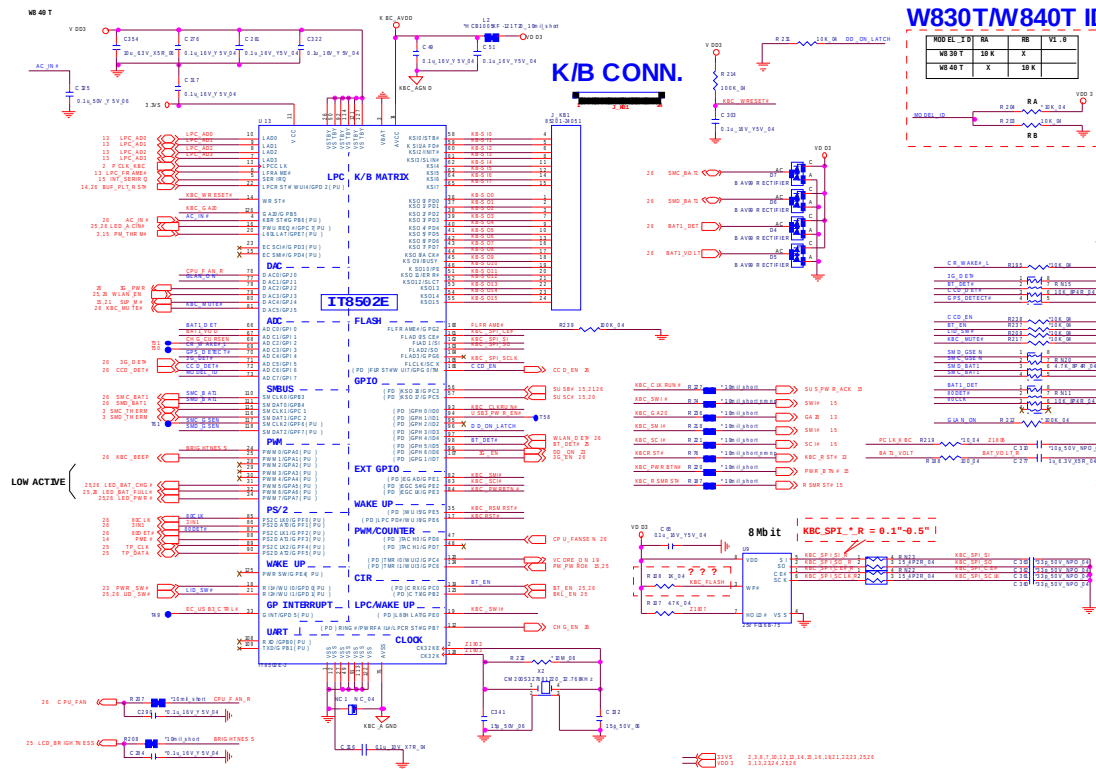
Schematic Diagrams

ICH9-M SFF 5/5, GND

Sheet 17 of 46
ICH9-M SFF 5/5,
GND



EC KBC-ITE IT8502E

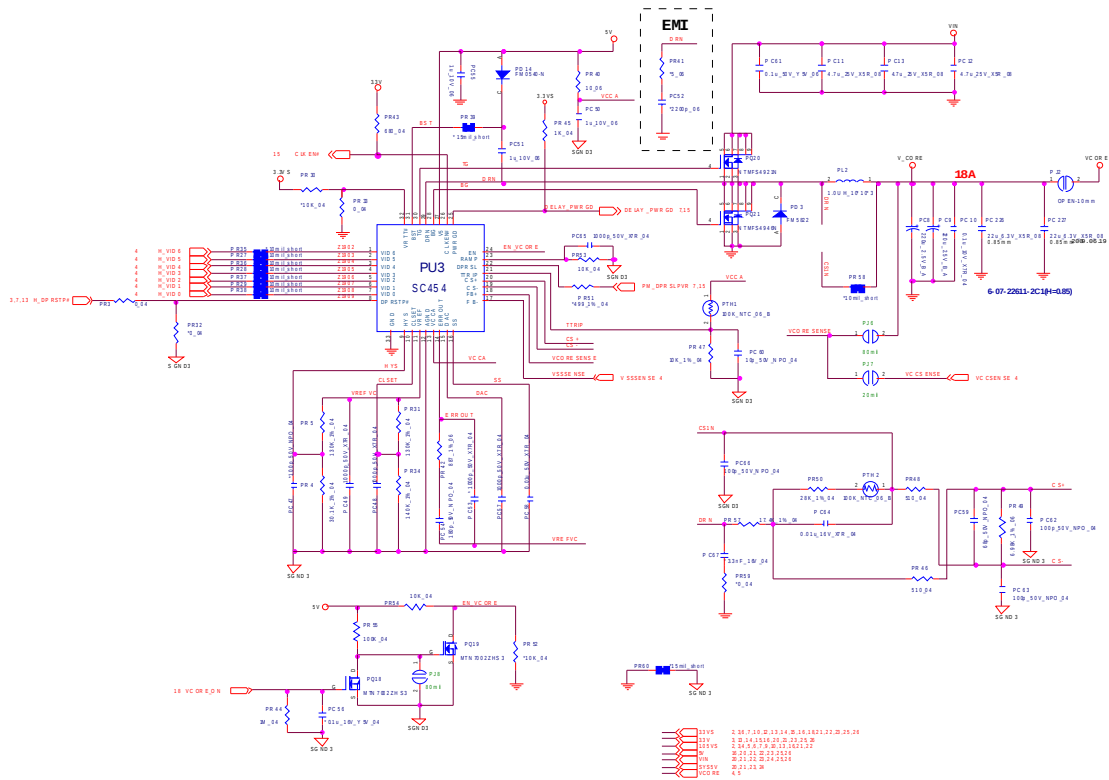


Sheet 18 of 46
EC KBC-ITE
IT8502E

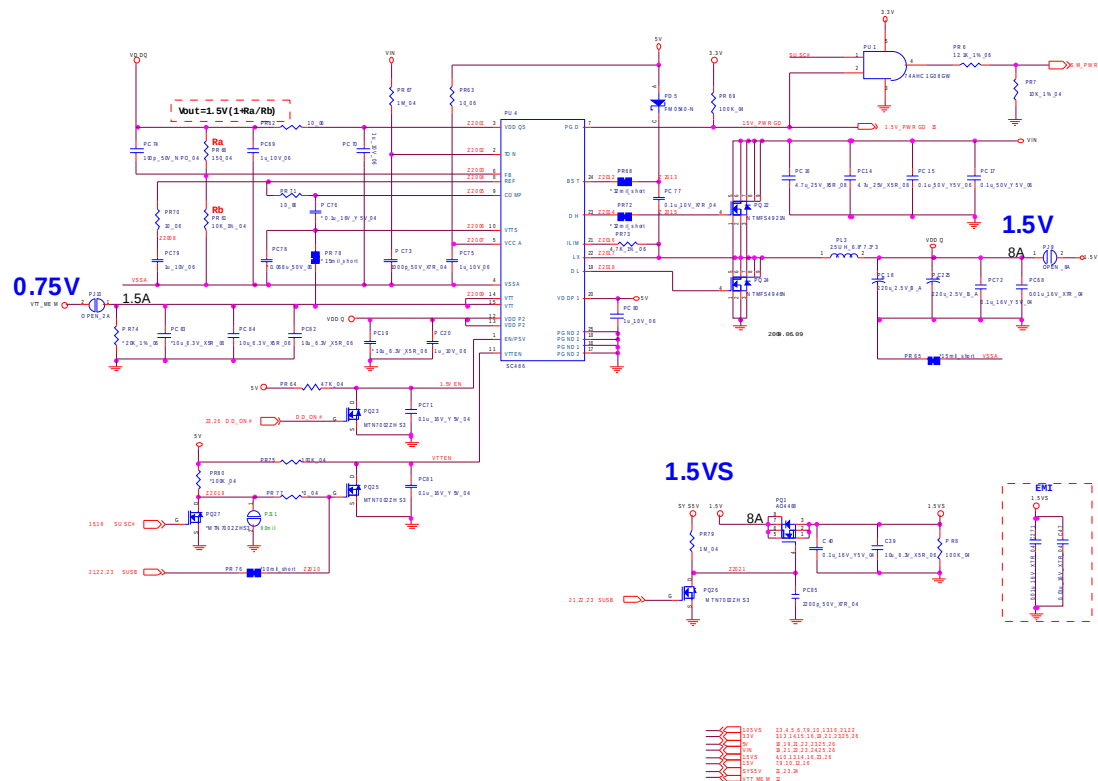
Schematic Diagrams

Power VCore

Sheet 19 of 46
Power VCore



Power 1.5V/0.75V/1.5VS

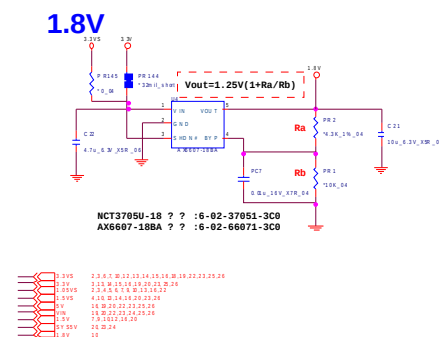
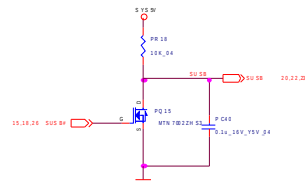
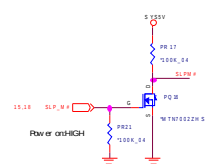
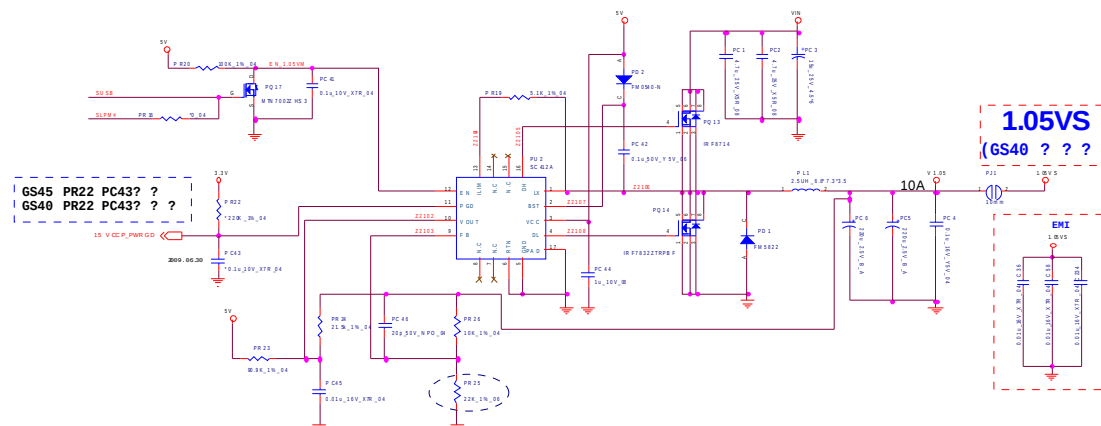


Sheet 20 of 46
Power 1.5V/0.75V/
1.5VS

Power 1.8V/1.05VS

B.Schematic Diagrams

Sheet 21 of 46
Power 1.8V/1.05VS

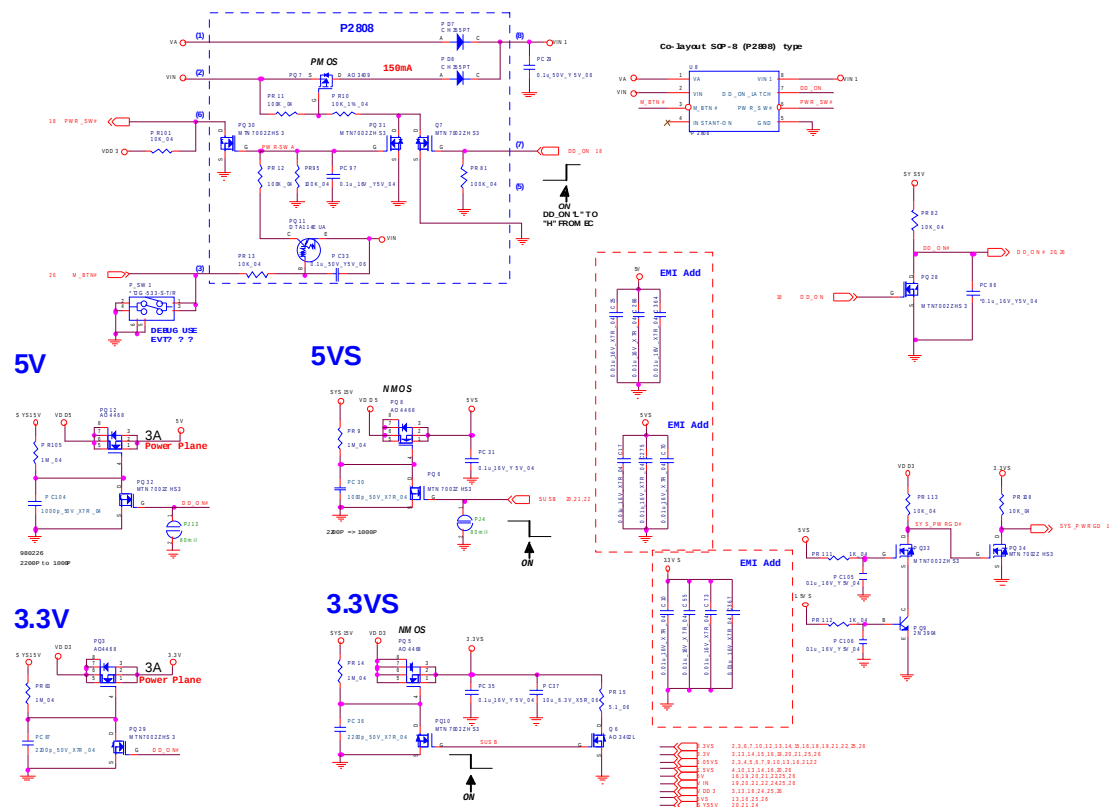


Sheet 22 of 46
Power VGA GPU
(VGFX_Core)

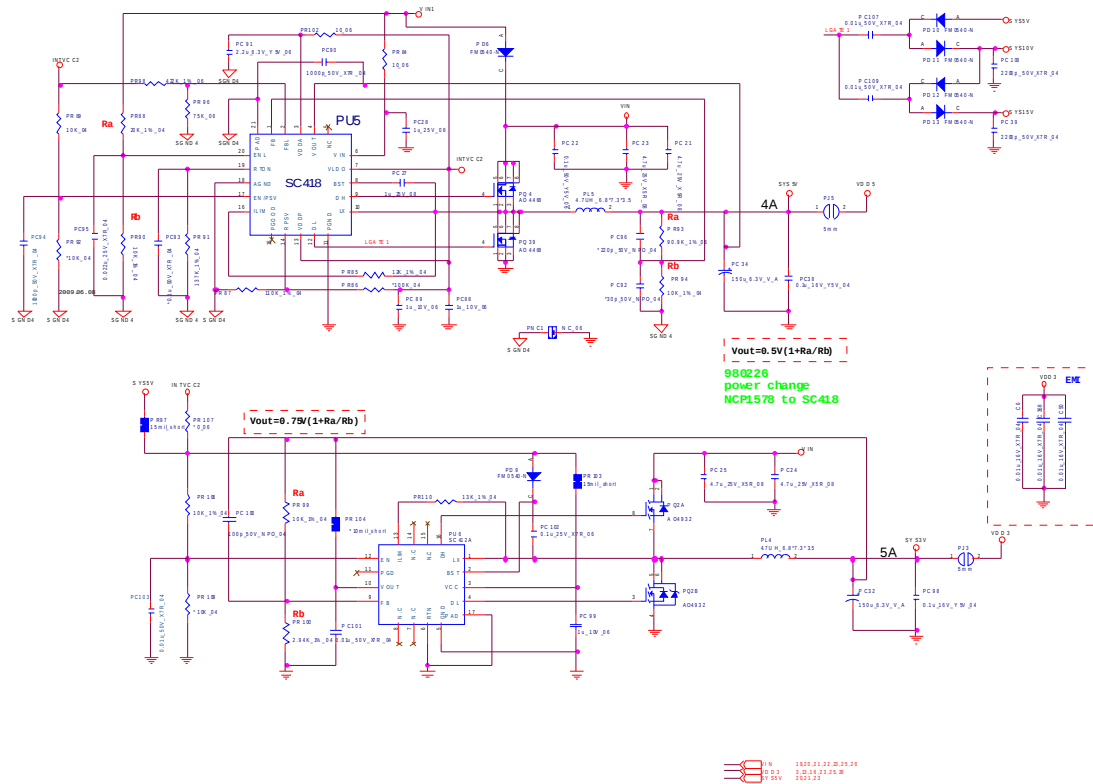


B.Schematic Diagrams

Sheet 23 of 46
Power 5VS, 3VS,
3.3V, 5V



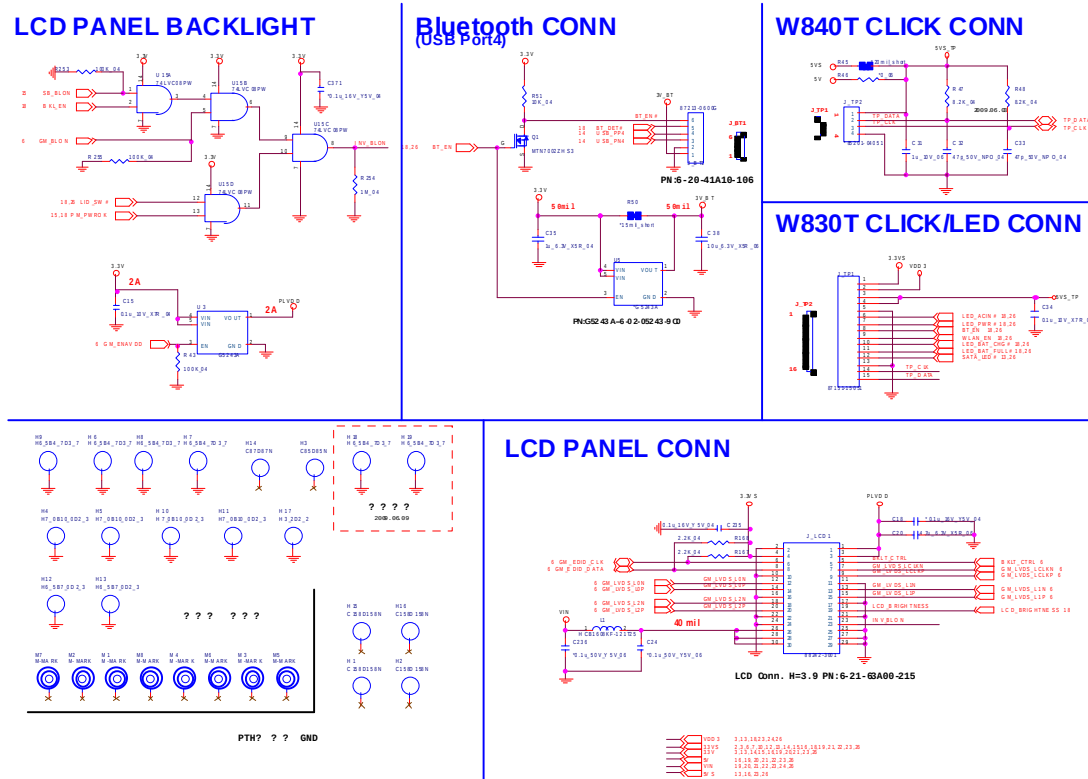
Power VDD3/VDD5



Sheet 24 of 46
Power VDD3/VDD5

B.Schematic Diagrams

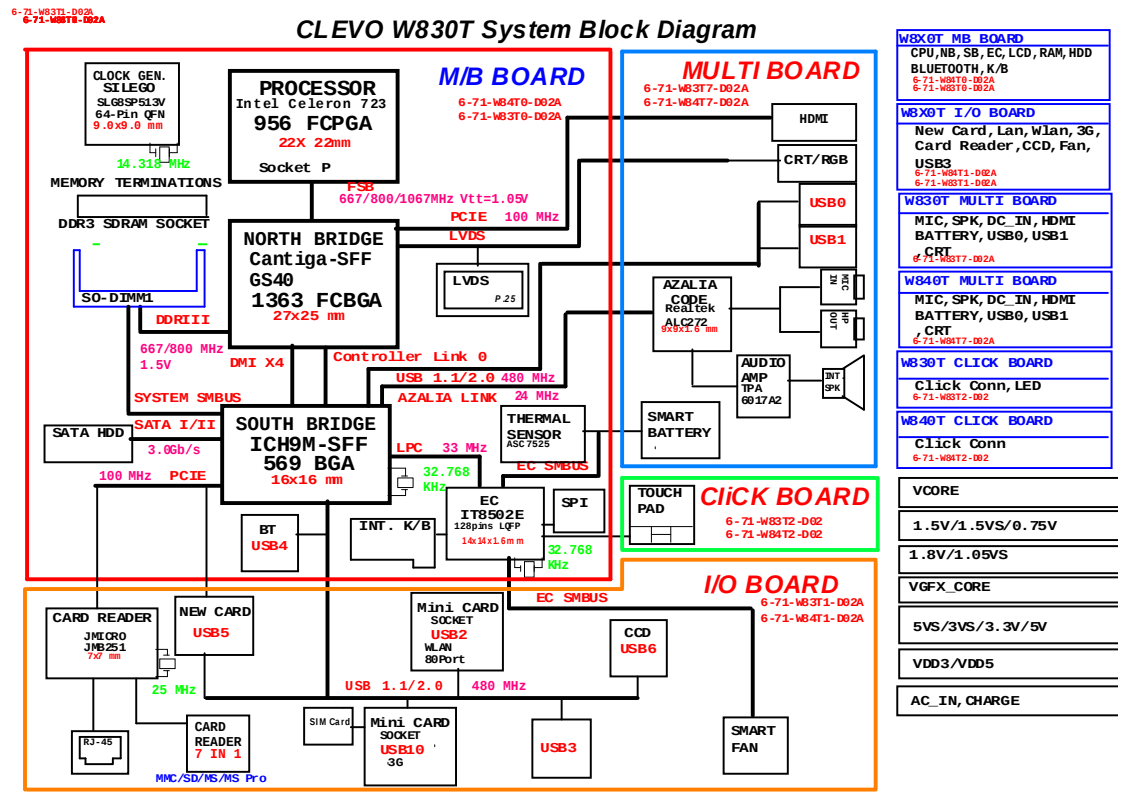
Sheet 25 of 46
LCD/CCD/Click/
BT Conn

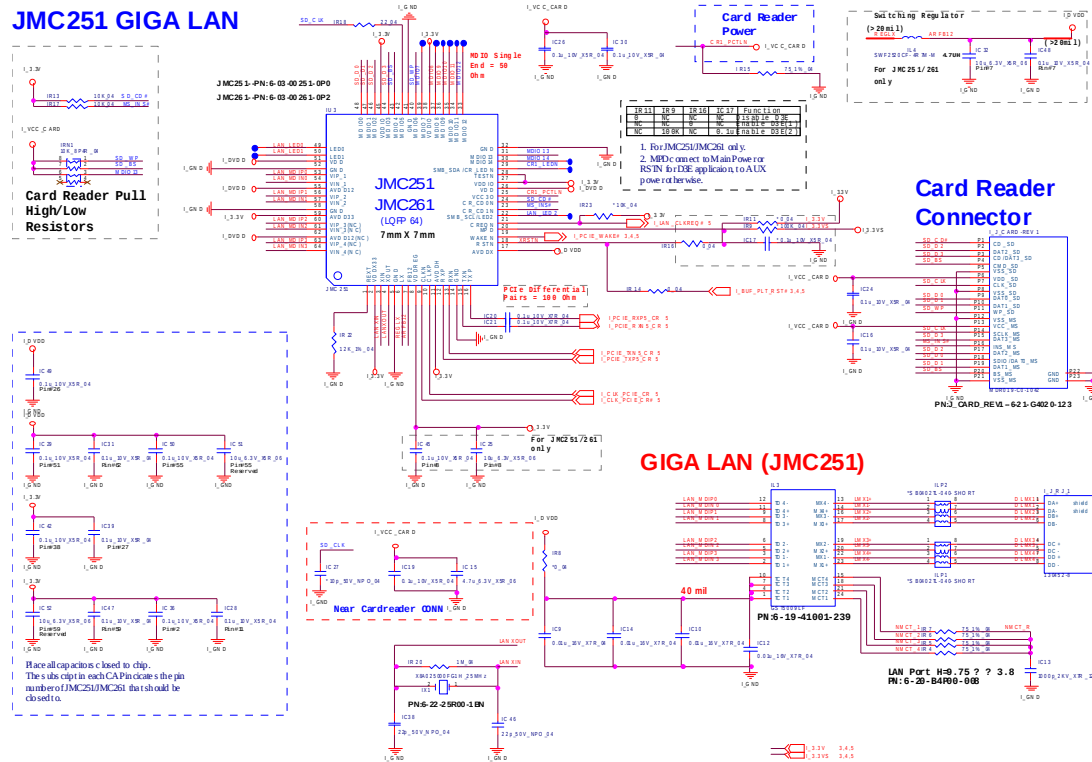


Schematic Diagrams

System Block Diagram (W830T)

Sheet 27 of 46
System Block
Diagram (W830T)



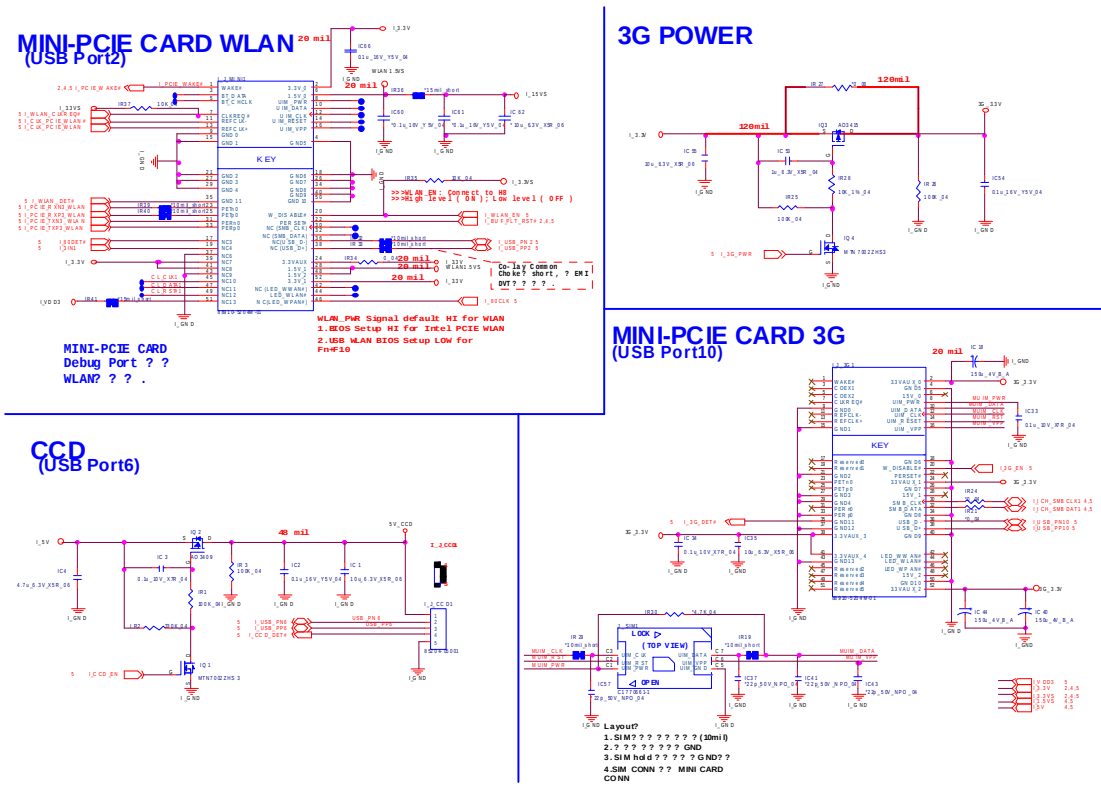


Sheet 28 of 46
W830T I/O
(JMC251)

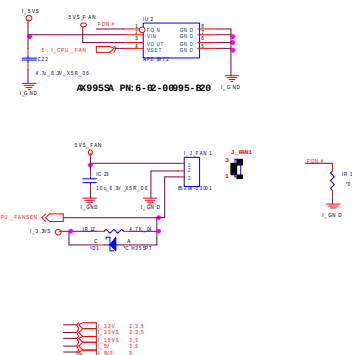
Schematic Diagrams

W830T I/O (CCD, MINI, WLAN/3G)

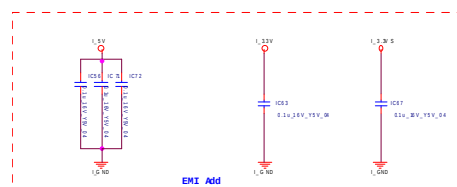
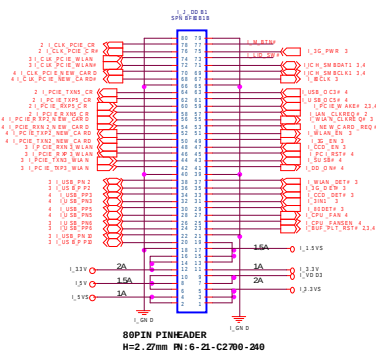
Sheet 29 of 46
W830T I/O (CCD,
MINI, WLAN/3G)



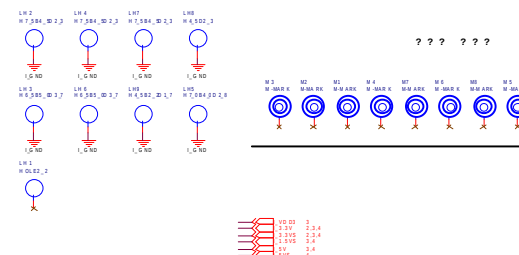
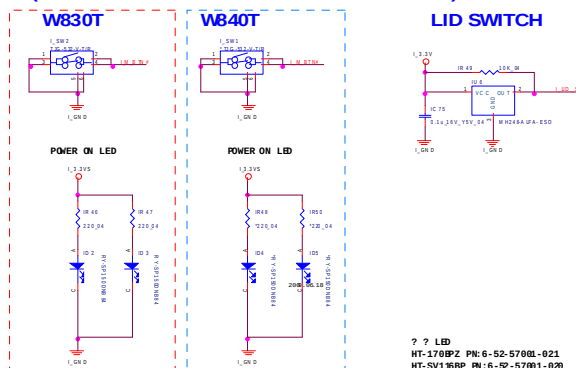
Sheet 30 of 46
W830T I/O
(New Card, Fan,
USB)



Sheet 31 of 46
W830T I/O to MB
Conn (SW)



```
(W830T:IR46? IR47? ID2? ID3? I_SW2? ? )
(W840T:IR47? IR48? ID4? ID5? I_SW1? ? )
```



Sheet 32 of 46
W830T Multi
(Audio ALC272)



Low mute!

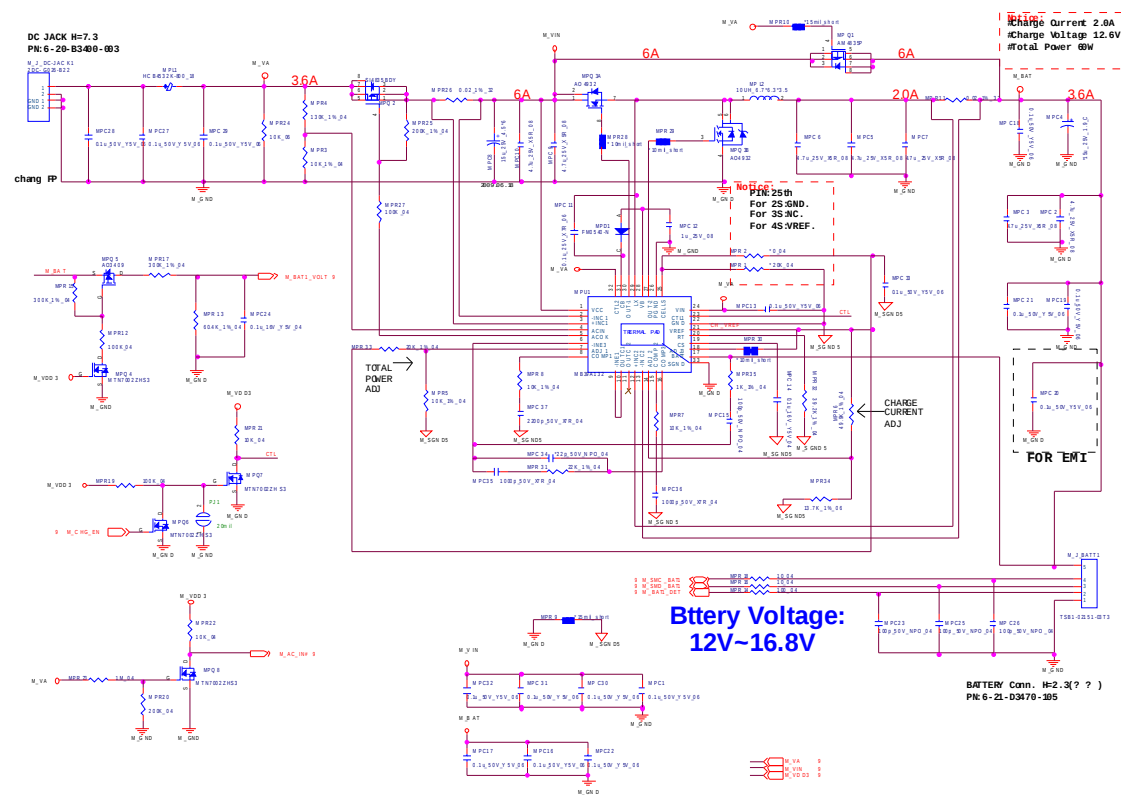
Gain Settings

AIN0	AIN1	W (Hz)	INPUT IMPEDANCE
0	0	0 dB	25 K
0	1	10 dB	25 K
1	0	15.8 dB	25 K (Default)
1	1	21.8 dB	25 K

W830T Multi (AC_In, Charger)

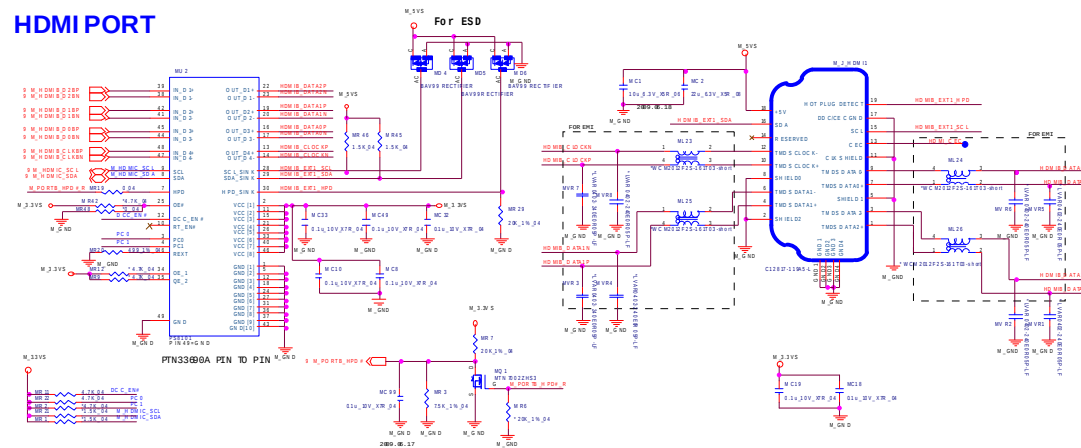
B.Schematic Diagrams

Sheet 33 of 46
W830T Multi
(AC_In, Charger)

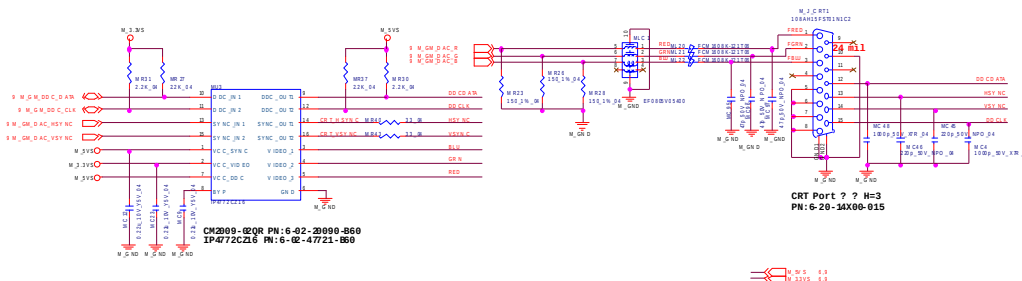


W830T Multi (HDMI/CRT Port)

HDMI PORT



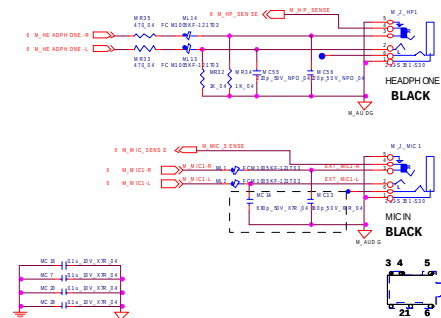
CRT PORT



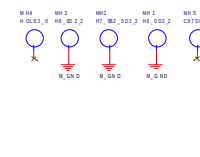
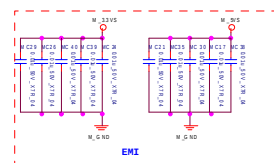
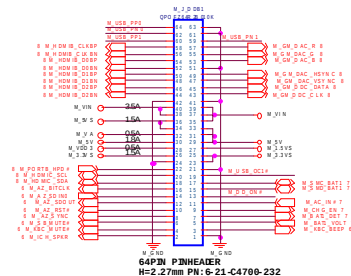
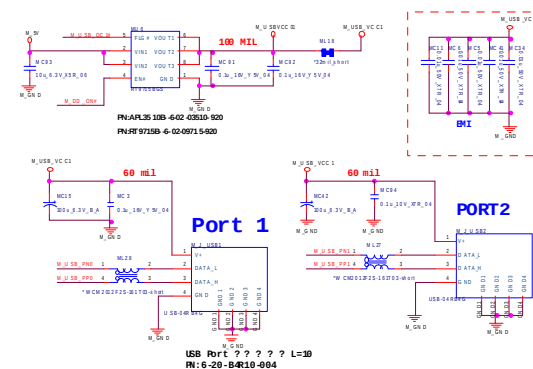
Sheet 34 of 46
W830T Multi (HDMI/
CRT Port)

B.Schematic Diagrams

Sheet 35 of 46
W830T to CPU
Conn (Jack, USB)

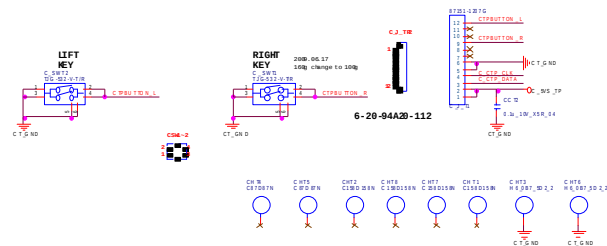


W830T USB
(USB Port1,Port3)

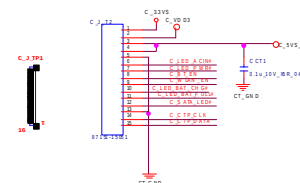


W830T Click Board (LED)

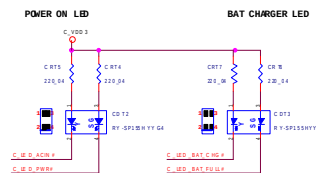
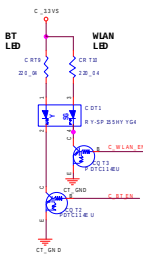
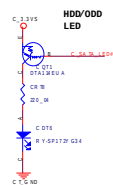
W830T CLICK BOARD
(W830T CLICK BOARD- C*T)



W830T CLICK Conn.

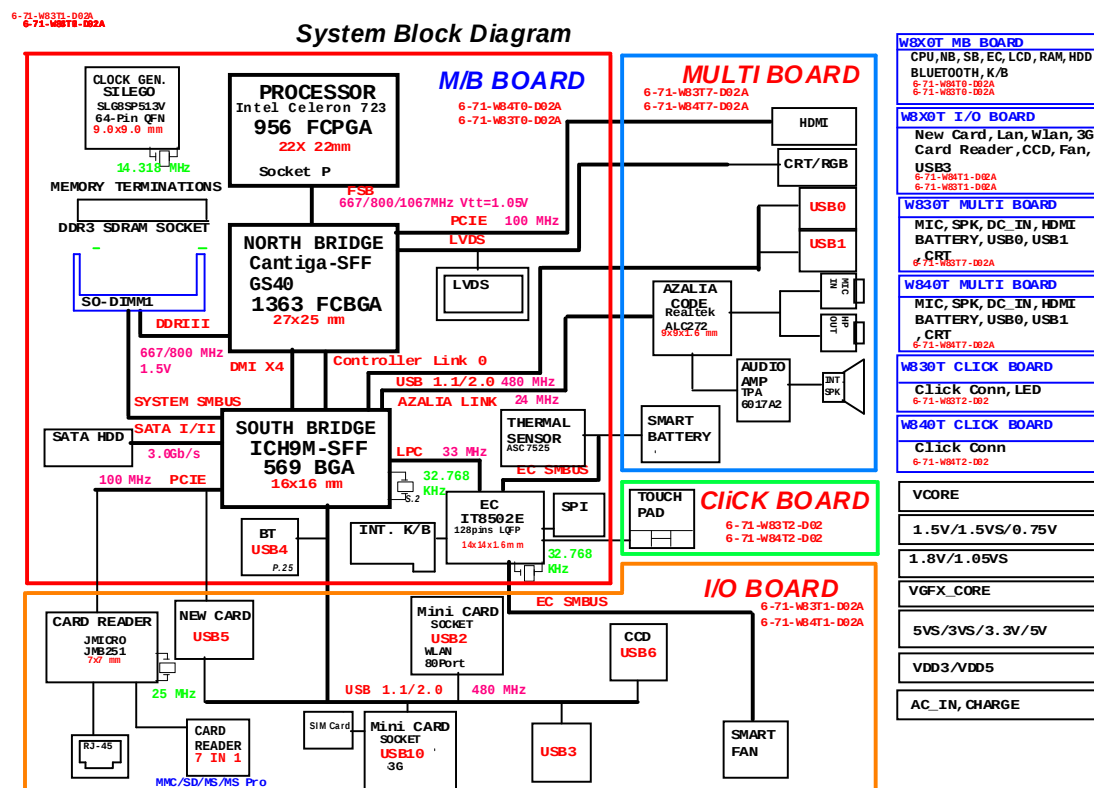


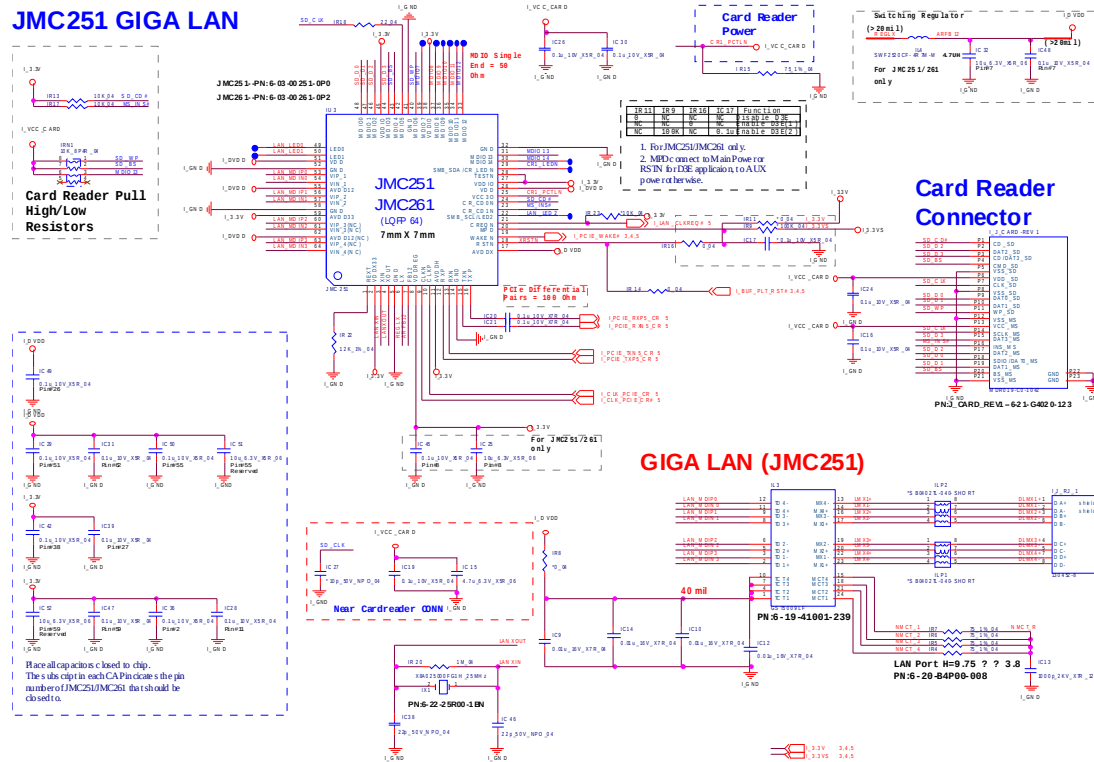
W830T LED



Sheet 36 of 46
W830T Click Board
(LED)

Sheet 37 of 46
System Block
Diagram (W840T)





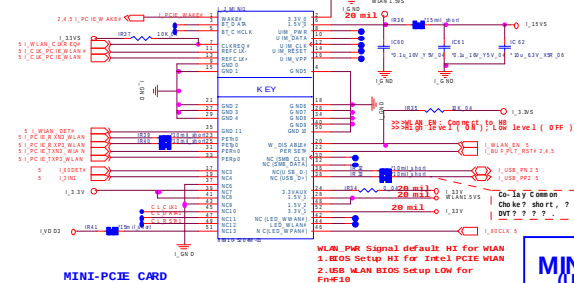
Sheet 38 of 46
W840T I/O
(JMC251)

Schematic Diagrams

W840T I/O (CCD, MINI, WLAN/3G)

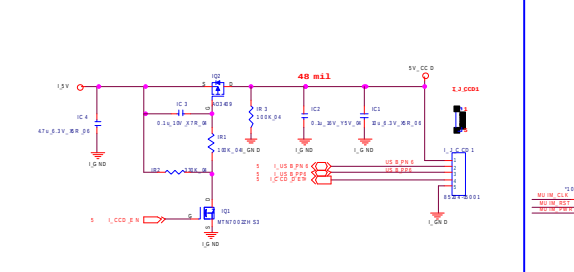
Sheet 39 of 46
W840T I/O (CCD,
MINI, WLAN/3G)

MINI-PCIE CARD WLAN
(USB Port2)



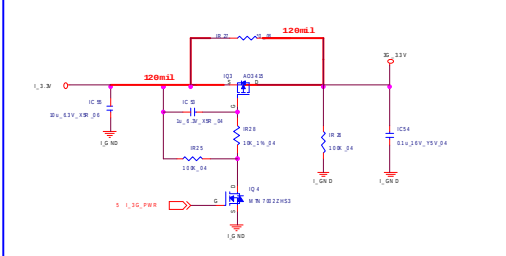
MINI-PCIE CARD
Debug Port ??
WLAN? ? ?

CCD
(USB Port6)

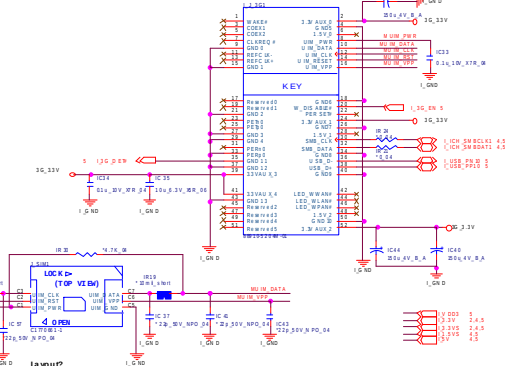


CCD
Debug Port ??
CCD? ? ?

3G POWER

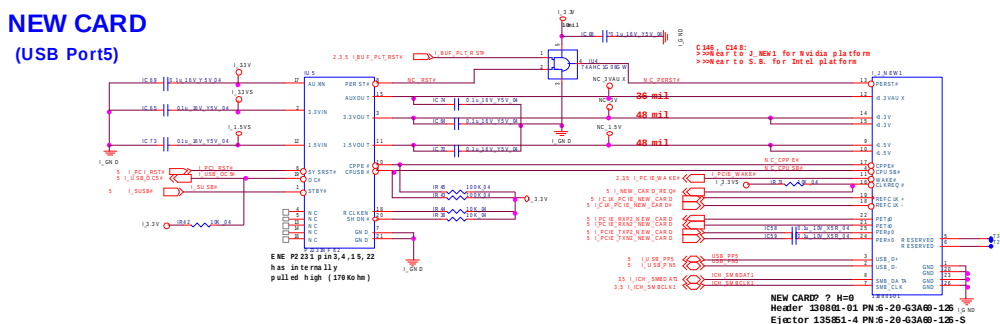


MINI-PCIE CARD 3G
(USB Port10)

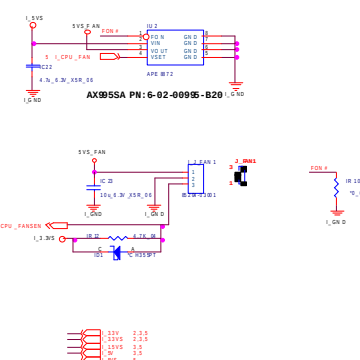
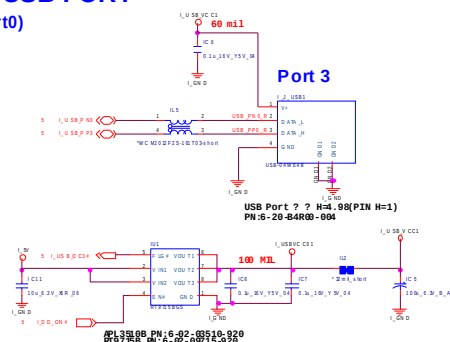


Layout?
1. SIM? ? ? ? ? (10mil)
2. ? ? ? ? ? ? ? GND?
3. SIM? ? ? ? ? ? ? GND?
4. SIM? ? ? ? ? ? ? GND?
5. SIM? ? ? ? ? ? ? GND?

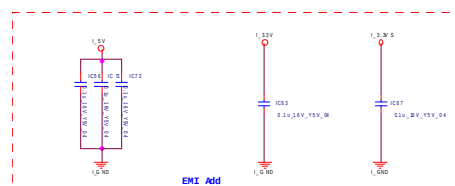
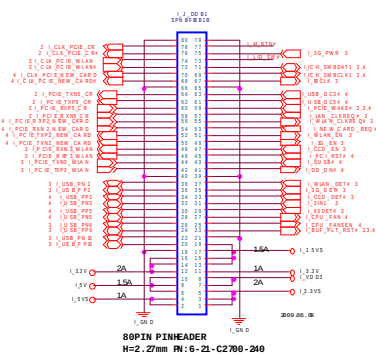
W840T I/O (New Card, Fan, USB)



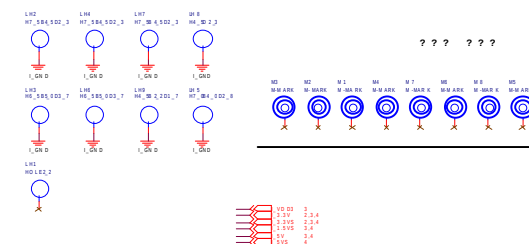
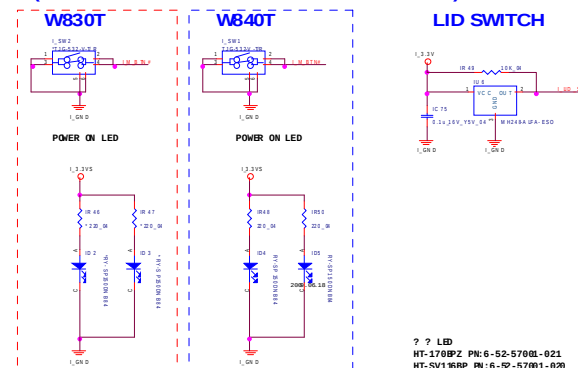
Sheet 40 of 46
W840T I/O
(New Card, Fan,
USB)



Sheet 41 of 46
W840T I/O to MB
Conn (SW)



```
(W830T:IR46? IR47? ID2? ID3? I_SW2? ? )
(W840T:IR47? IR48? ID4? ID5? I_SW1? ? )
```

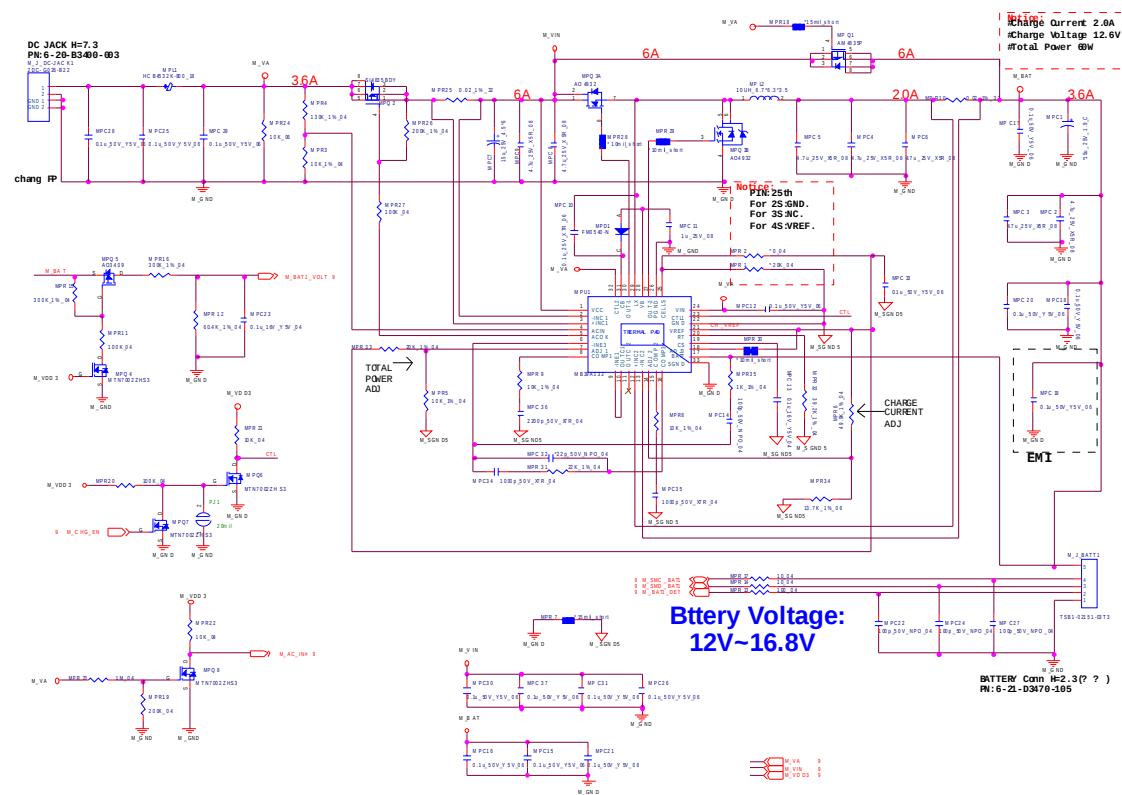


Sheet 42 of 46
W840T Multi
(Audio ALC272)



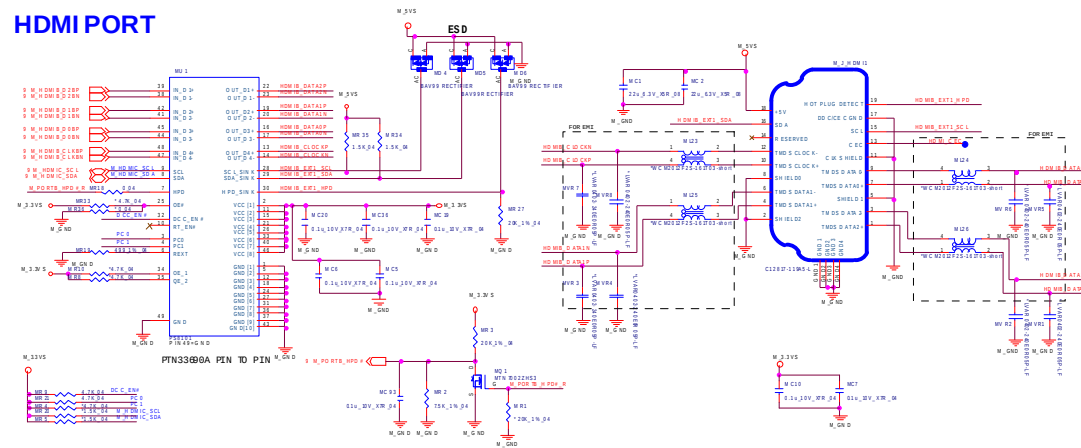
B.Schematic Diagrams

Sheet 43 of 46
W840T Multi
(AC_In, Charger)

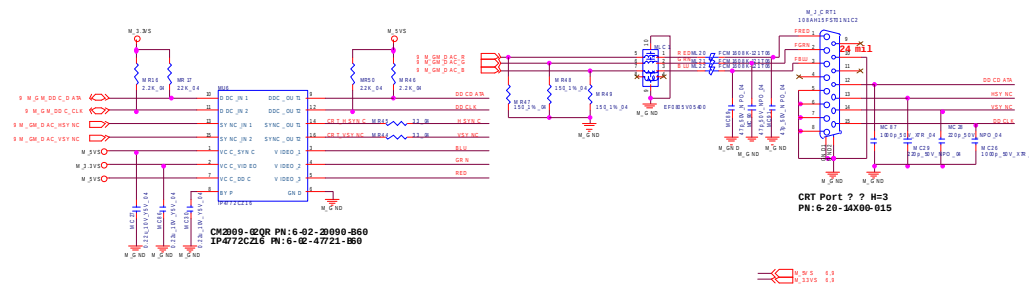


W840T Multi (HDMI/CRT Port)

HDMI PORT



CRT PORT



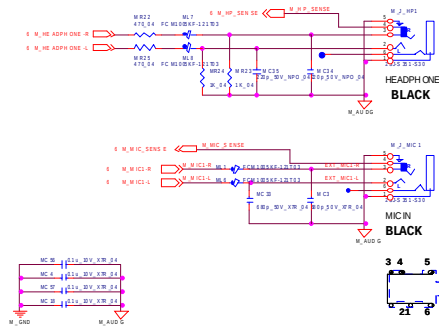
Sheet 44 of 46
W840T Multi (HDMI/
CRT Port)

Schematic Diagrams

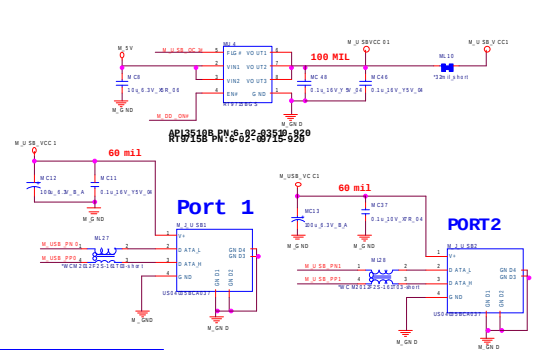
W840T to CPU Conn (Jack, USB)

Sheet 45 of 46
W840T to CPU
Conn (Jack, USB)

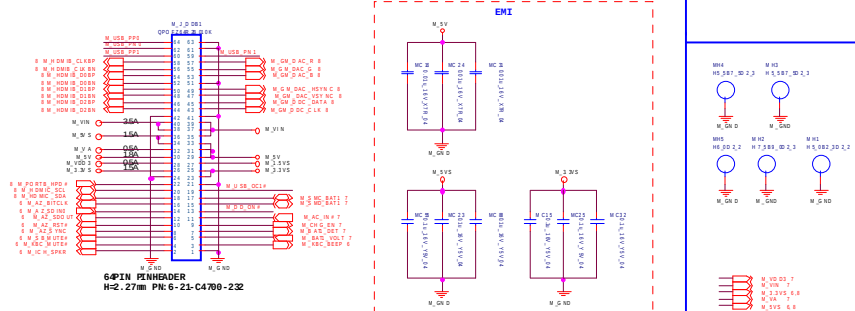
PHONE JACK



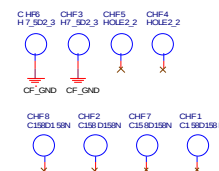
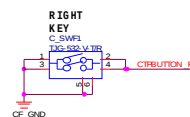
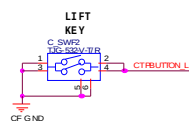
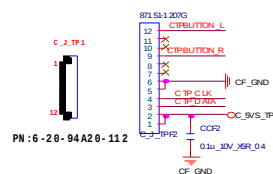
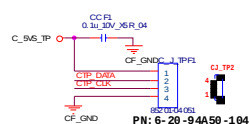
W840T USB
(USB Port1, Port3)



MULTI Board TO CPU Board CONN.



CLICK BOARD
(W840T CLICK BOARD-C*F)



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W840T Click Board
(LED)

