



SERVICE MANUAL

M740T / M740TU / M740TU-F2 / M760T / M760TU

notebook

Notebook Computer

M740T/M740TU/M740TU-F2/M760T/M760TU

Service Manual

Notice

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

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

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

Version 2.0
January 2009

Trademarks

Intel and **Intel Core** are trademarks of Advanced Micro Devices, Inc.

Windows[®] is a registered trademark of Microsoft Corporation.

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

About this Manual

This manual is intended for service personnel who have completed sufficient training to undertake the maintenance and inspection of personal computers.

It is organized to allow you to look up basic information for servicing and/or upgrading components of the *M740T/M740TU/M740TU-F2/M760T/M760TU* 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 (**65 Watts**) minimum AC/DC Adapter for **M740T/M760T** computers, **OR** 19V, 4.74A (**90 Watts**) minimum AC/DC Adapter for **M740TU/M740TU-F2/M760TU** computers.

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

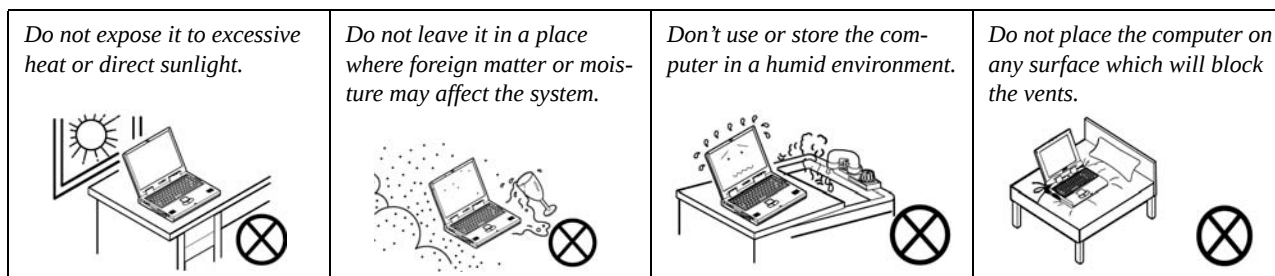
Instructions for Care and Operation

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

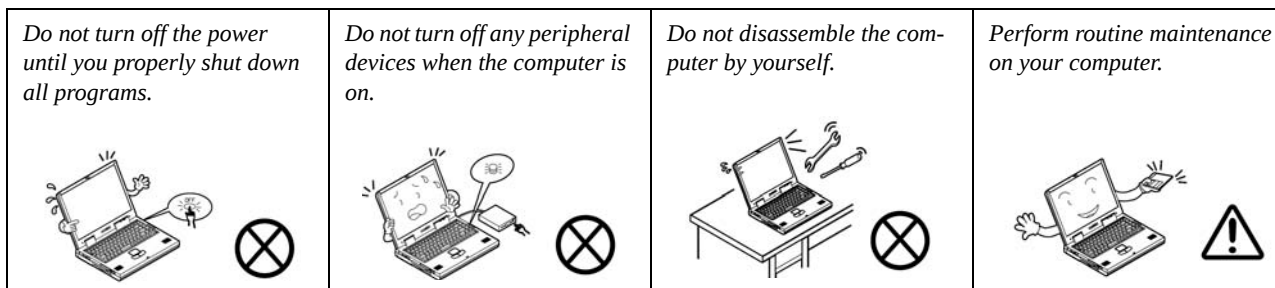
1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.



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.

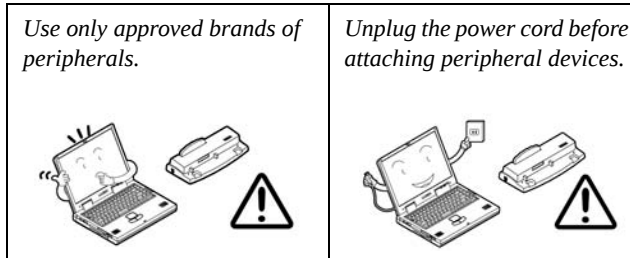


3. **Follow the proper working procedures for the computer.** Shut the computer down properly and don't forget to save your work. Remember to periodically save your data as data may be lost if the battery is depleted.



Preface

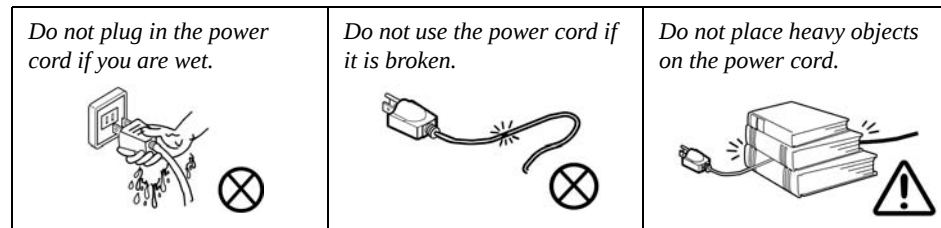
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



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



Battery Disposal

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

Caution

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

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.

Contents

Introduction1-1

Overview	1-1
System Specifications	1-2
External Locator - Top View with LCD Panel Open	1-6
External Locator - Front & Right side Views	1-7
External Locator - Left Side & Rear View	1-8
External Locator - Bottom View	1-9
Mainboard Overview - Top (Key Parts)	1-10
Mainboard Overview - Bottom (Key Parts)	1-11
Mainboard Overview - Top (Connectors)	1-12
Mainboard Overview - Bottom (Connectors)	1-13

Disassembly2-1

Overview	2-1
Maintenance Tools	2-2
Connections	2-2
Maintenance Precautions	2-3
Disassembly Steps	2-4
Removing the Battery	2-5
Removing the Hard Disk Drive	2-6
Removing the Optical (CD/DVD) Device	2-9
Removing the System Memory (RAM)	2-11
Removing the Inverter Board	2-13
Removing and Installing the Processor	2-14
Removing the Wireless LAN Module	2-17
Removing the Bluetooth Module	2-18
Removing the Keyboard	2-19
Removing the Modem	2-20

Part ListsA-1

Part List Illustration Location	A-2
---------------------------------------	-----

Top with Fingerprint (M740T/M740TU)	A-3
Top with Fingerprint (M740TU-F2)	A-4
Top without Fingerprint (M740T/M740TU)	A-5
Top without Fingerprint (M740TU-F2)	A-6
Bottom (M740T)	A-7
Bottom (M740TU)	A-8
Bottom (M740TU-F2)	A-9
LCD (M740T/M740TU)	A-10
LCD (M740TU-F2)	A-11
HDD (M740T/M740TU)	A-12
COMBO (M740T/M740TU)	A-13
DVD-Dual Drive (M740T/M740TU)	A-14
Top with Fingerprint (M760T/M760TU)	A-15
Top without Fingerprint (M760T/M760TU)	A-16
Bottom (M760T)	A-17
Bottom (M760TU)	A-18
LCD (M760T/M760TU)	A-19
HDD (M760T/M760TU)	A-20
COMBO (M760T/M760TU)	A-21
DVD-Dual Drive (M760T/M760TU)	A-22

Schematic Diagrams.....B-1

System Block Diagram	B-2
Clock Generator	B-3
Penryn (Socket-P) CPU 1/2	B-4
Penryn (Socket-P) CPU 2/2	B-5
CANTIGA 1/7, Host	B-6
CANTIGA 2/7, Graphics	B-7
CANTIGA 3/7	B-8
CANTIGA 4/7	B-9
CANTIGA 5/7	B-10

Preface

CANTIGA 6/7	B-11
CANTIGA 7/7	B-12
DDRII SO-DIMM - 0	B-13
DDRII SO-DIMM - 1	B-14
Panel, Inverter, CRT	B-15
VGA NB9M-1	B-16
VGA NB9M-2	B-17
VGA NB9M-3	B-18
VGA NB9M-4	B-19
VGA NB9M-5	B-20
VGA NB9M-6	B-21
VGA NB9M-7	B-22
ICH9M 1/4, SATA	B-23
ICH9M 2/4, PCI, USB	B-24
ICH9M 3/4	B-25
ICH9M 4/4	B-26
New Card, Mini PCIE	B-27
3G, Powergood	B-28
USB, Fan, TP, FP, Multi CON	B-29
Card Reader	B-30
SATA ODD, LED, Hotkey, LID SW	B-31
PCI-E LAN RTL8111C	B-32
Audio Codec ALC662	B-33
Audio AMP	B-34
KBC-ITE IT8512E	B-35
5VS, 3VS, 3.3VM, 1.05VS, VIN1	B-36
Power 3.3V/5V	B-37
Power 1.5VS/1.05VS	B-38
Power 1.8V/0.9V	B-39
Power GPU/NVVDD	B-40
AC-IN, Charger	B-41
VCORE	B-42

NVVDD	B-43
HDMI	B-44
External ODD Board for M76	B-45
Click & Finger Board for M76	B-46
Multi Function Board	B-47
Audio Board	B-48
Finger Sensor Board for M76	B-49
Power Switch Board for M74	B-50
FingerPrint Board for M74	B-51
Power Switch Board for M76	B-52

Updating the FLASH ROM BIOS..... C-1

Download the BIOS	2-1
Unzip the downloaded files to a bootable CD/DVD/ or USB Flash drive	2-1
Set the computer to boot from the external drive	2-1
Use the flash tools to update the BIOS	2-2
Restart the computer (booting from the HDD)	2-2

Chapter 1: Introduction

Overview

This manual covers the information you need to service or upgrade the **M740T/M740TU/M740TU-F2/M760T/M760TU** 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 **M740T/M740TU/M740TU-F2/M760T/M760TU** series notebook is designed to be upgradeable. See ***“Disassembly” on page 2 - 1*** for a detailed description of the upgrade procedures for each specific component. Please note the warning and safety information indicated by the “⚠” symbol.

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

System Specifications

Feature	Specification	
Processor	Intel® Core™2 Duo Processor (478-pin) Micro-FC-PGA Package, Socket P TDP: 35W T9400/ T9600	45nm (45 Nanometer) Process Technology 6MB On-die L2 Cache & 1066MHz FSB 2.53/ 2.8 GHz
	Intel® Core™2 Duo Processor (478-pin) Micro-FC-PGA Package, Socket P TDP: 25W P9500	45nm (45 Nanometer) Process Technology 6MB On-die L2 Cache & 1066MHz FSB 2.53 GHz
	Intel® Core™2 Duo Processor (478-pin) Micro-FC-PGA Package, Socket P TDP: 25W P8400/ P8600	45nm (45 Nanometer) Process Technology 3MB On-die L2 Cache & 1066MHz FSB 2.26/ 2.40 GHz
Core Logic	<u>M740T/M760T:</u> Intel(R) GM45 + ICH9M Chipset	<u>M740TU/M740TU-F2/M760TU:</u> Intel(R) PM45 + ICH9M Chipset
LCD	<u>M740T/M740TU/M740TU-F2:</u> 14.1" WXGA (1280*800)/ WXGA+ (1440*900) Glare Type TFT LCD	<u>M760T/M760TU:</u> 15.4" WXGA (1280*800)/ WXGA+ (1440*900)/ WSXGA+ (1680*1050) Glare Type TFT LCD
Video Adapter	<u>M740T/M760T:</u> Intel GM45 Integrated Video High Preference 3D/2D Graphic Accelerator Supports Dynamic Video Memory Technology DVMT (up to 256MB dynamically allocated from system memory where needed) Supports DirectX10	<u>M740TU/M740TU-F2/M760TU:</u> nVIDIA GeForce 9300M GS Discrete Graphics On-Board 256MB of GDDR2 Video Memory On-Board TurboCache™ Supporting Total Graphics Memory up to 512MB (depending on system memory) Supports DirectX 10 Supports PCIE * 16 Supports HDCP
Memory	64-bit Wide DDRII (DDR2) Data Channel Supports Dual Channel DDR2 SDRAM Two 200 Pin SO-DIMM Sockets Supporting DDRII (DDR2) 667MHz/ 800MHz Memory Expandable up to 4GB (1024MB/ 2048MB DDRII Modules)	

Feature	Specification
Security	Security (Kensington® Type) Lock Slot Fingerprint ID Reader Module (Factory Option) BIOS Password
BIOS	One 32Mb SPI Flash ROM Phoenix™ BIOS
Storage	One Changeable 12.7mm(h) SATA Optical Device (CD/DVD) Type Drive (see <i>“Optional” on page 1 - 5</i>) Easy Changeable 2.5" 9.5 mm (h) SATA (Serial) HDD
Audio	Intel® High Definition Audio (HDA) Interface 3D Enhanced Sound System Sound-Blaster PRO™ Compatible S/PDIF Digital Output 2 * Built-In Speakers (1W, 8Ω) Built-In Microphone
Keyboard & Pointing Device	Winkey Keyboard Built-In TouchPad with Scrolling Function
Interface	Three USB 2.0 Ports One HDMI-Out Port (High-Definition Multimedia Interface) One Headphone-Out Jack One Microphone-In Jack One S/PDIF-Out Jack One eSATA Port (supported in Windows Vista only): AHCI mode supports hot swapping IDE mode does not support hot swapping 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
ExpressCard Slot	One ExpressCard/34(54) Slot
Mini-Card Slots	One Mini-Card Slot for Wireless LAN Module One Mini-Card Slot for 3.5G Module

Introduction

1.Introduction

Feature	Specification	
Communication  UMTS Modes Note that UMTS modes CAN NOT be used in North America.	Built-In 56K MDC Modem, V.90 & V.92 Compliant Built-In Gigabit Ethernet LAN Bluetooth 2.0 + EDR (Enhanced Data Rate) Module (Factory Option) 1.3M or 2.0M Pixel USB PC Camera Module (Factory Option) Wireless LAN Module: Intel® WiFi Link 5300 Series (3*3 - 802.11a/g/n) Wireless LAN Mini-Card Module (Option) Intel® WiFi Link 5100 Series (1*2 - 802.11a/g/n) Wireless LAN Mini-Card Module (Option) 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)	
Power Management	Supports ACPI 3.0 Supports Wake on LAN	Supports Resume from Modem Ring
Power	<u>M740T/M760T:</u> Full Range AC/DC Adapter AC input 100 - 240V, 50 - 60Hz, DC Output 19V, 3.42A (65 Watts)	<u>M740TU/M740TU-F2/M760TU:</u> Full Range AC/DC Adapter AC input 100 - 240V, 50 - 60Hz, DC Output 19V, 4.74A (90 Watts)
Battery	6 Cell Smart Lithium-Ion Battery Pack, 4000mAH OR 4400mAH 9 Cell Smart Lithium-Ion Battery Pack, 7200mAH (Option)	
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	<u>M740T/M740TU/M740TU-F2:</u> 336mm (w) * 250mm (d) * 24.8-35.7mm (h) Around 2.3 kg With 6 Cell Battery	<u>M760T/M760TU:</u> 359mm (w) * 268mm (d) * 24.8-37mm (h) 2.6 kg With 6 Cell Battery

Feature	Specification	
Optional	<u>Optical Drive Module Options:</u> Combo/ DVD-Dual (Super Multi) Device Module <u>Wireless LAN Module:</u> Intel® WiFi Link 5300/5100 Series (3*3/1*2 - 802.11a/g/n) Wireless LAN Mini-Card Module 9 Cell Smart Lithium-Ion Battery Pack 1.3M or 2.0M Pixel USB PC Camera Module (Factory Option) Fingerprint ID Reader Module (Factory Option)	Bluetooth 2.0 + EDR (Enhanced Data Rate) Module (Factory Option) 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)  UMTS Modes Note that UMTS modes CAN NOT be used in North America.

Introduction

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. Fingerprint Module (Optional)
10. LED Indicators

External Locator - Top View with LCD Panel Open



M740T/M740TU/M740TU-F2



M760T/M760TU



External Locator - Front & Right side Views



Figure 2

Front Views

1. LED Power & Communication Indicators



Figure 3

Right Side Views

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

Introduction

External Locator - Left Side & Rear View

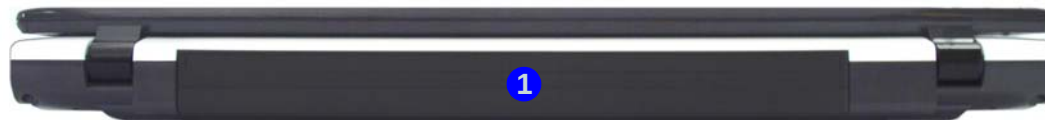
Figure 4
Left Side View

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

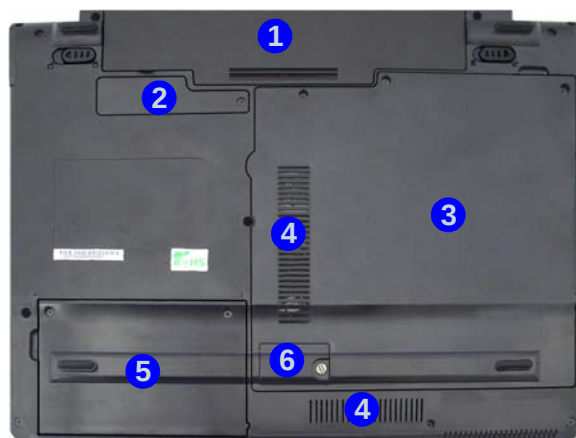


Figure 5
Rear View

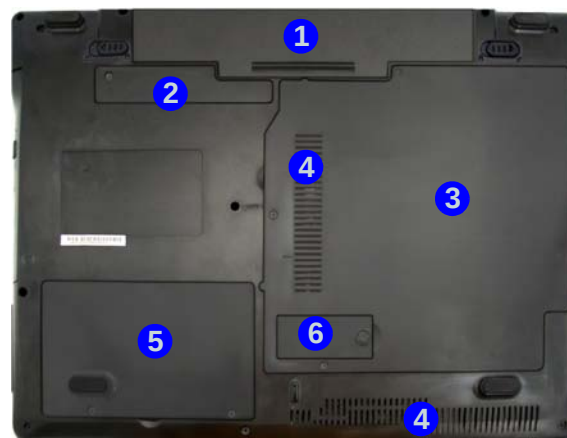
1. Battery



External Locator - Bottom View



M740T/M740TU/M740TU-F2



M760T/M760TU

Figure 6
Bottom View

1. Battery
2. Bluetooth Module Cover
3. RAM & CPU Bay Cover
4. Vent/Fan Intake/Outlet
5. Hard Disk Bay Cover
6. 3.5G USIM Card Location



Overheating

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

Figure 7
**Mainboard Top
Key Parts**

Mainboard Overview - Top (Key Parts)

1. Transformer
2. VT6103L
3. ExpressCard Connector
4. ENE MR510
5. KBC ITE IT8512E



Mainboard Overview - Bottom (Key Parts)

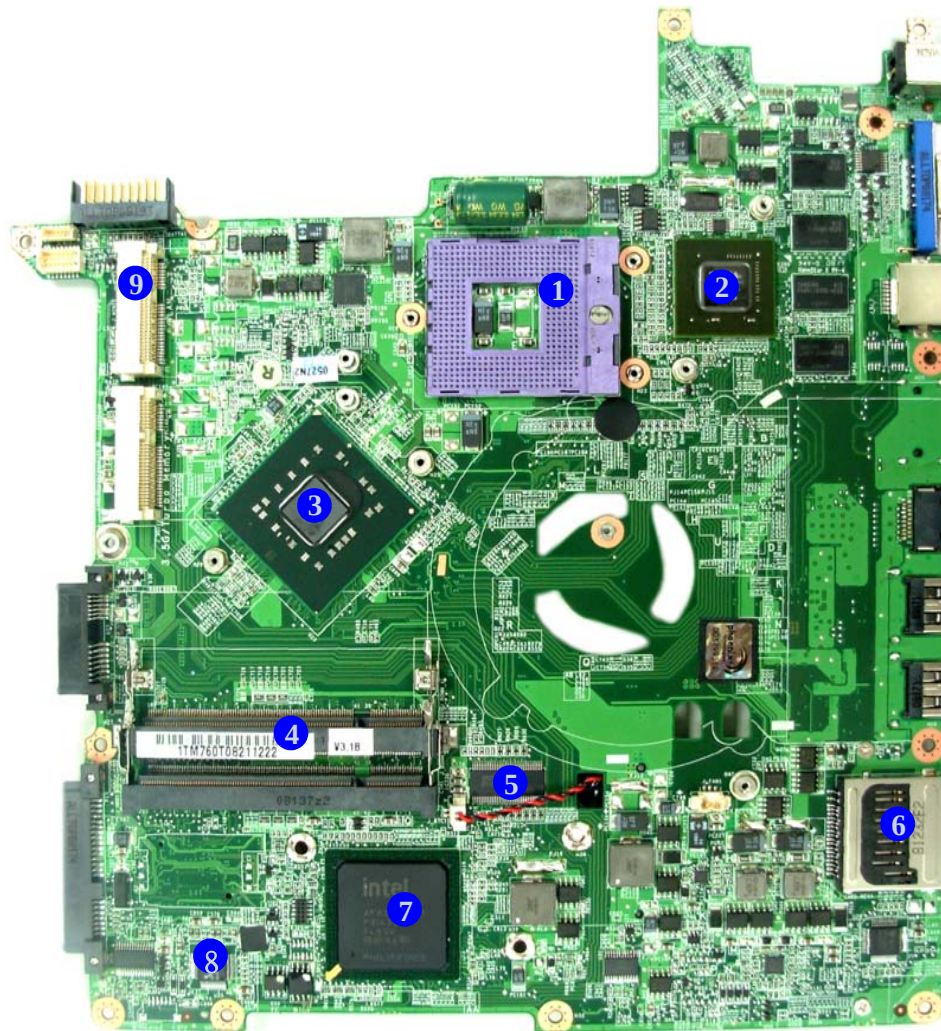


Figure 8
**Mainboard Bottom
Key Parts**

1. CPU Socket (no CPU installed)
2. VGA Chip
3. North Bridge
4. Memory Slots
DDR2 SO-DIMM
5. ICS
6. Card Reader
Socket
7. South Bridge
8. Audio Codec
9. Mini-Card
Connector (WLAN
Module)

Introduction

Figure 9
**Mainboard Top
Connectors**

1. USB Port
2. Hot-key board Connector
3. LCD Cable Connector
4. Keyboard Cable Connector
5. Audio Board Connector
6. Microphone Cable Connector
7. TouchPad Cable Connector
8. Fingerprint Cable Connector

Mainboard Overview - Top (Connectors)



Mainboard Overview - Bottom (Connectors)

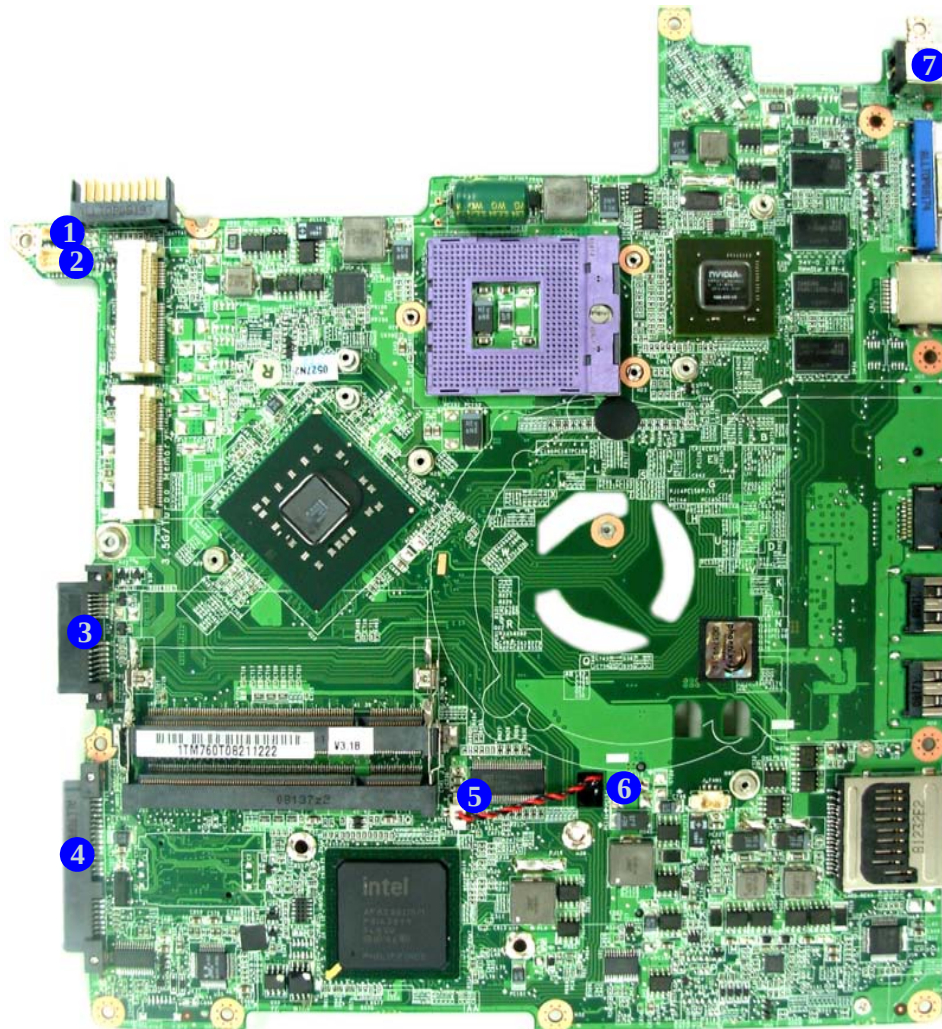


Figure 10
**Mainboard Bottom
Connectors**

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

Chapter 2: Disassembly

Overview

This chapter provides step-by-step instructions for disassembling the *M740T/M740TU/M740TU-F2/M760T/M760TU* series notebook's parts and subsystems. When it comes to reassembly, reverse the procedures (unless otherwise indicated).

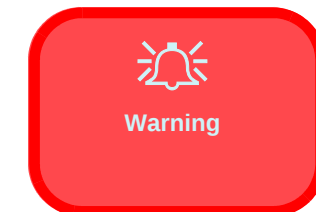
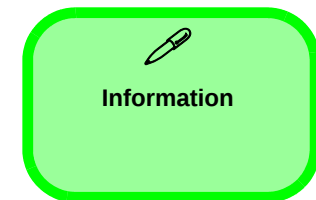
We suggest you completely review any procedure before you take the computer apart.

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

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

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

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



Disassembly

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

Maintenance Tools

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

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

Connections

Connections within the computer are one of four types:

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

Maintenance Precautions

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

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

Cleaning

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

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



Power Safety Warning

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

Disassembly Steps

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

To remove the Battery:

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

To remove the HDD:

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

To remove the Optical Device:

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

To remove the System Memory:

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

To remove the Inverter Board:

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

To remove and install a Processor:

1. Remove the battery [page 2 - 5](#)
2. Remove the processor [page 2 - 14](#)
3. Install the processor [page 2 - 16](#)

To remove the Wireless LAN Module:

1. Remove the battery [page 2 - 5](#)
2. Remove the wireless LAN [page 2 - 17](#)

To remove the Bluetooth Module:

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

To remove the Keyboard:

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

To remove the Modem:

1. Remove the battery [page 2 - 5](#)
2. Remove the HDD [page 2 - 6](#)
3. Remove the system memory [page 2 - 11](#)
4. Remove the Optical device [page 2 - 9](#)
5. Remove the processor [page 2 - 14](#)
6. Remove the keyboard [page 2 - 19](#)
7. Remove the modem [page 2 - 20](#)

Removing the Battery

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

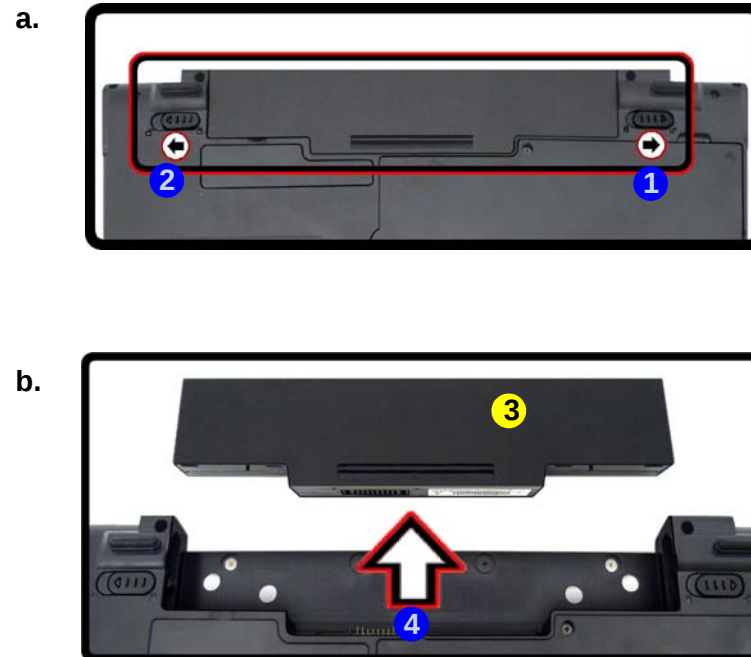


Figure 1
Battery Removal

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



3. Battery

Disassembly

Figure 2
**HDD Assembly
Removal**

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

Removing the Hard Disk Drive

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

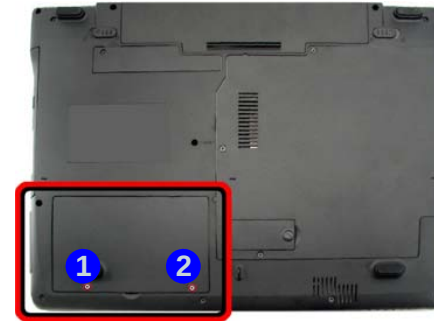
Hard Disk Upgrade Process

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

a.



M740T/M740TU/M740TU-F2



M760T/M760TU



- 2 Screws



HDD System Warning

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

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

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

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

For M740T/M740TU/M740TU-F2 computers:

3. Remove the hard disk bay cover **3**.
4. Grip the tab and slide the hard disk in the direction of arrow **4**.
5. Lift the hard disk out of the bay **5**.
6. Remove the 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).

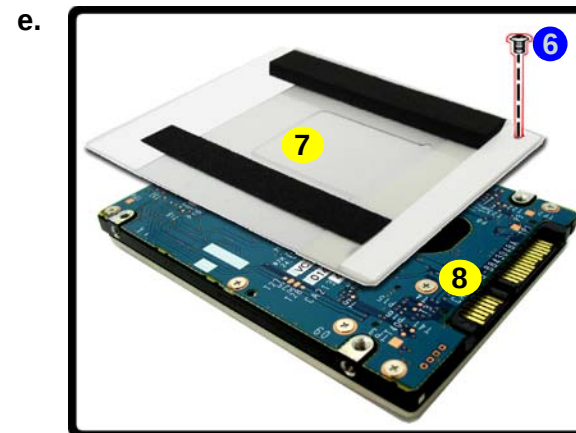
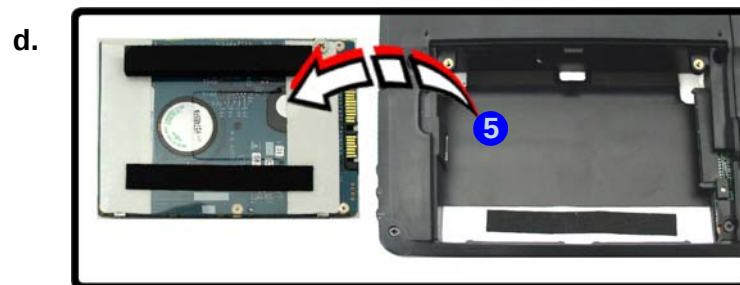
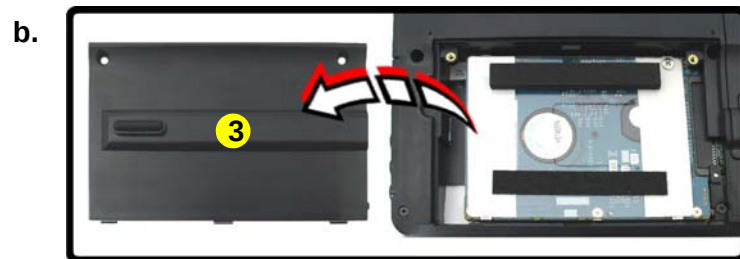


Figure 3
**HDD Assembly
Removal (cont'd.)**

- 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 screw and adhesive cover.



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

- 1 Screw

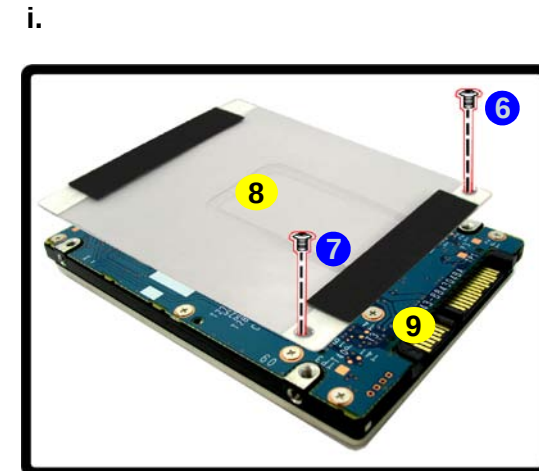
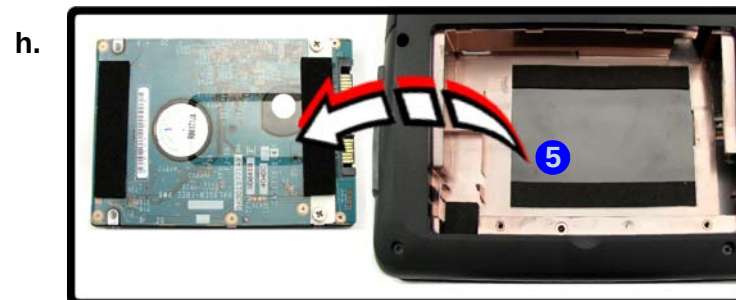
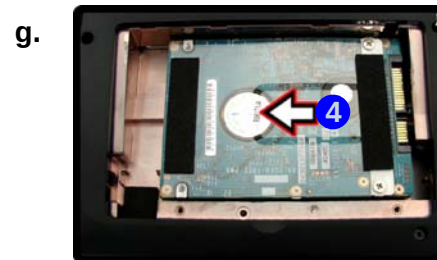
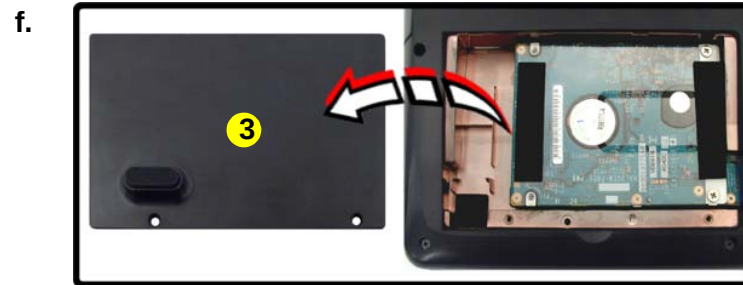
Disassembly

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

- f. Remove the HDD Bay Cover.
- g. Grip the tab and slide the HDD in the direction of the arrow.
- h. Lift the HDD assembly out of the bay.
- i. Remove the screw and adhesive cover.

For **M760T/M760TU** computers:

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



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

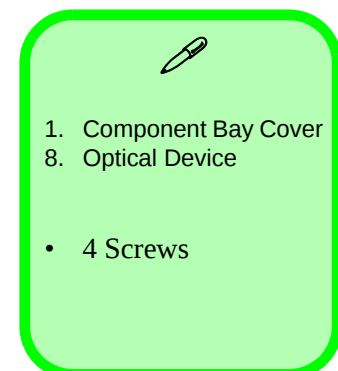
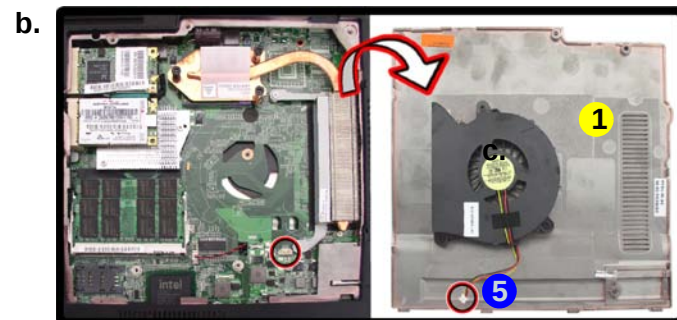
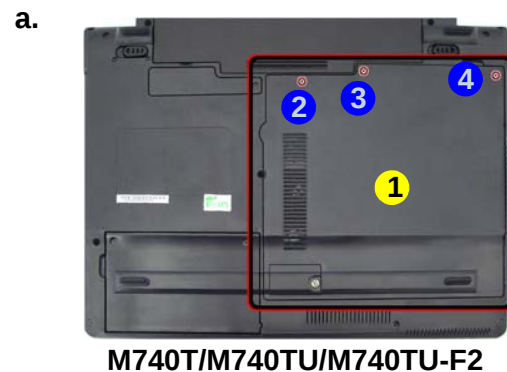
- 2 Screws

Removing the Optical (CD/DVD) Device

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. **M740T/M740TU/M740TU-F2: (see over for M760T/M760TU)** 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**.
5. Remove the screw at point **6**, and use a screwdriver to carefully push out the optical device **8** at point **7**.
6. Insert the new device and carefully slide it into the computer (the device only fits one way. DO NOT FORCE IT; The screw holes should line up).
7. Restart the computer to allow it to automatically detect the new device.

Figure 5
Optical Device Removal

- a. Remove the screws.
- b. Disconnect the fan cable and remove the cover.
- c. Remove the screw.
- d. Push the optical device out off the computer at point 7.

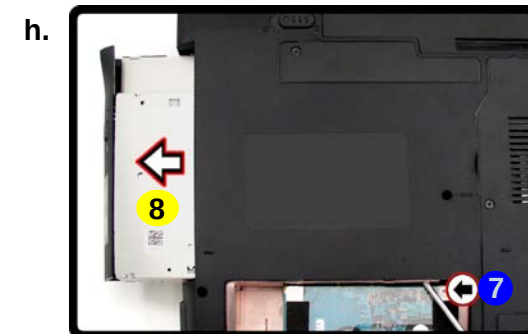
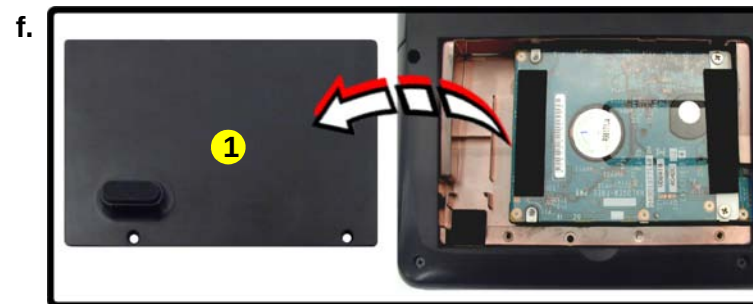
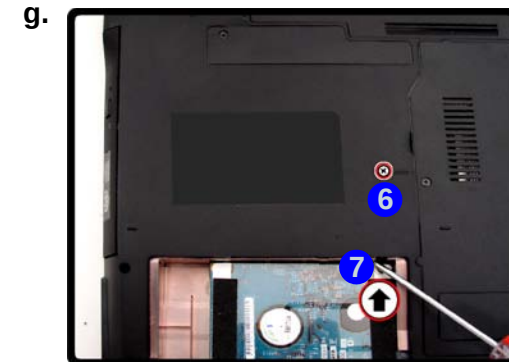


Disassembly

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

- e. Remove the screws.
- f. Remove the cover.
- g. Remove the screw.
- h. Push the optical device out off the computer at point 7.

- 8. **M760T/M760TU:** Locate the hard disk bay cover **1** and loosen screws **2** & **3**.
- 9. Remove the hard disk bay cover **1**.
- 10. Remove the screw at point **6**, and use a screwdriver to carefully push out the optical device **8** at point **7**.
- 11. 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).
- 12. Restart the computer to allow it to automatically detect the new device.



- 1. HDD Bay Cover
- 8. Optical Device

- 4 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**.

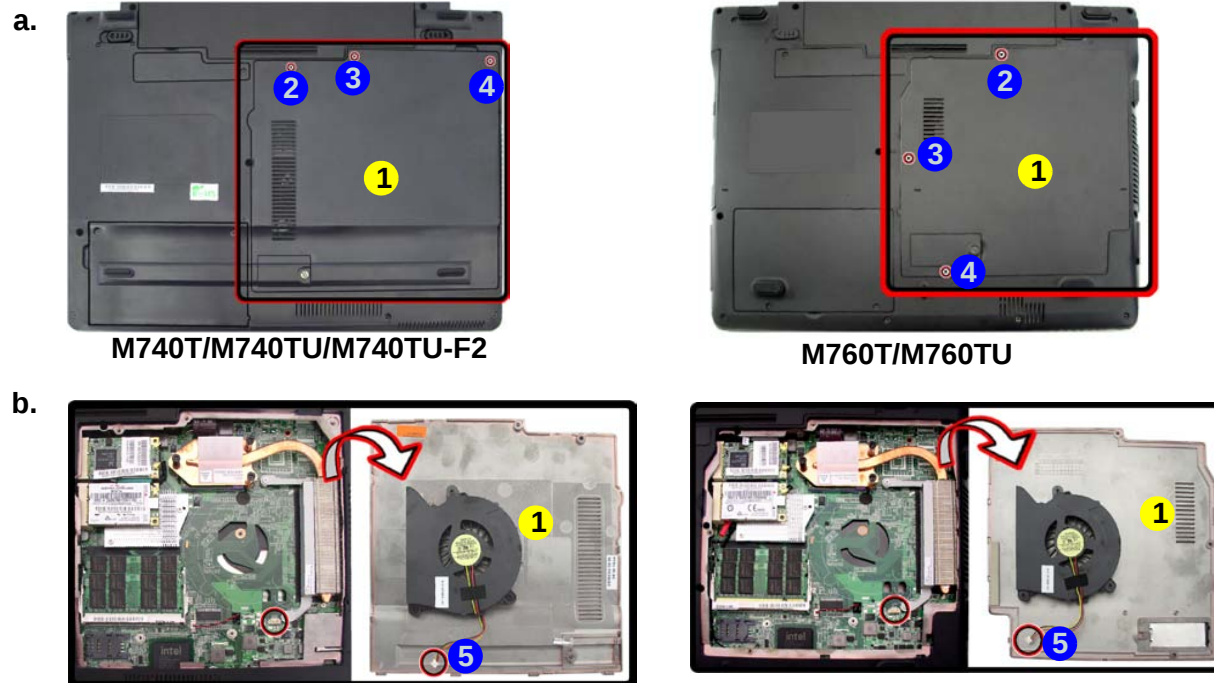


Figure 7
RAM Module
Removal

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



Contact Warning

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



1. Component Bay Cover

- 3 Screws

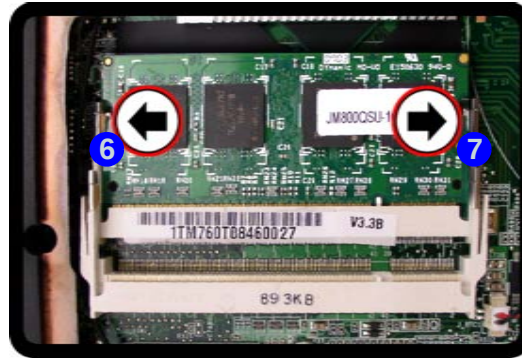
Disassembly

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

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

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

c.



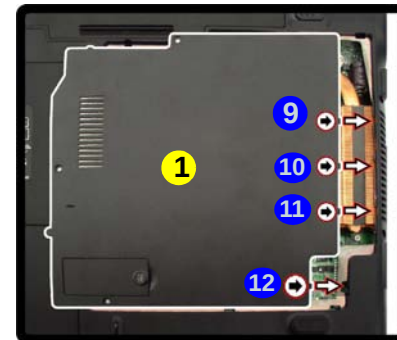
d.



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

Note for M760T/M760TU computers that there are four 9 - 12 cover pins which need to be aligned with slots in the case, to insure a proper cover fit, before screwing down the bay cover 1.

e.



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



Single Memory Module Installation

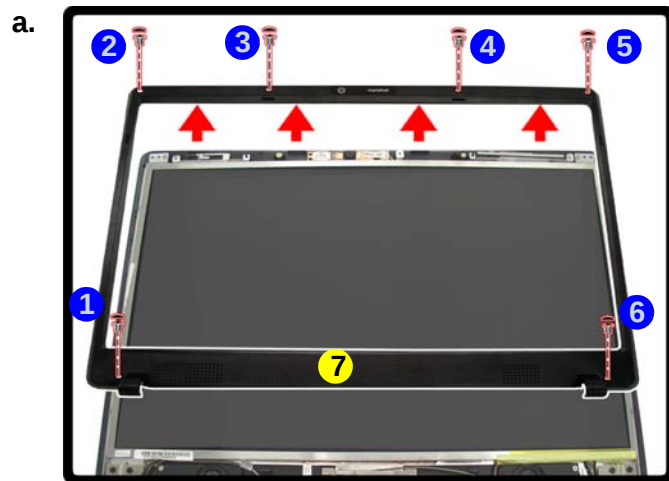
If your computer has a single memory module, then insert the module into the **Channel 0 (J_DIMM_1)** socket. In this case, this is the lower memory socket (the socket closest to the mainboard) as shown in *Figure 8d*.



8. RAM Module(s)

Removing the Inverter Board

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



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.

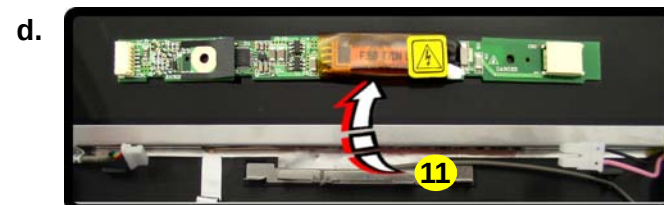


Figure 9
Inverter Board Removal

- 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

Removing and Installing the Processor

Processor Removal Procedure

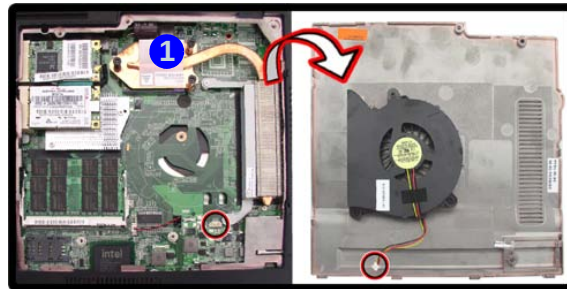
Figure 10

Processor Removal

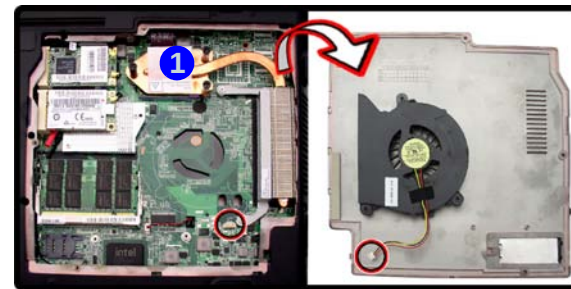
- Remove the cover and locate the heat sink.
- Remove the screws in the order indicated.
- Remove the heat sink.

- Turn off the computer, remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 11](#)).
- The CPU heat sink will be visible at point ① on the mainboard.
- Remove screws ② - ④ ([Figure 10b](#)) from the heat sink in the order indicated.
- Carefully lift up the heat sink ⑤ ([Figure 10c](#)) off the computer.

a.

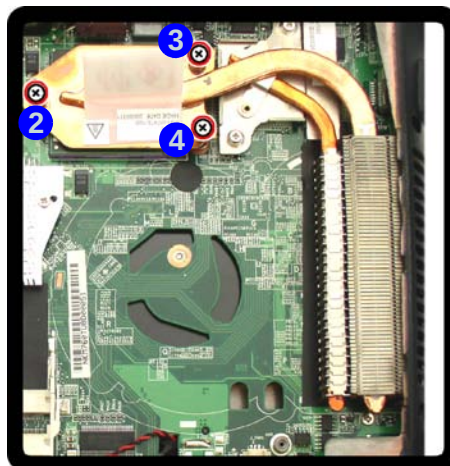


M740T/M740TU/M740TU-F2

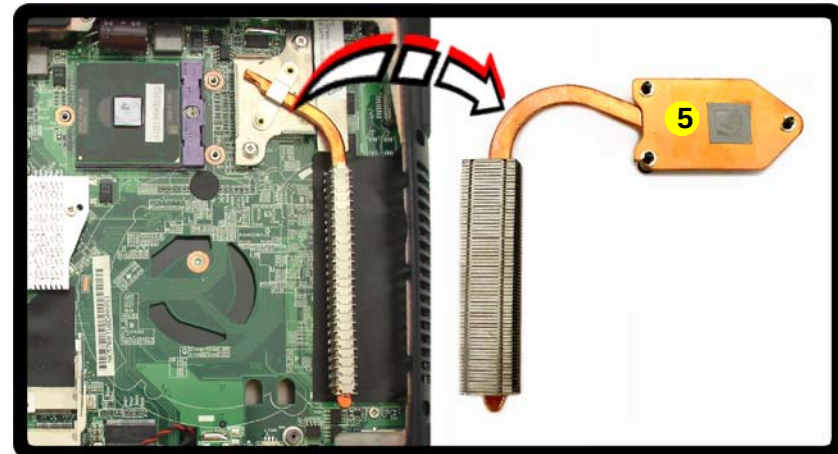


M760T/M760TU

b.



c.



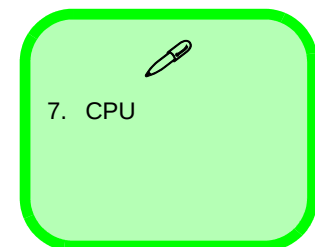
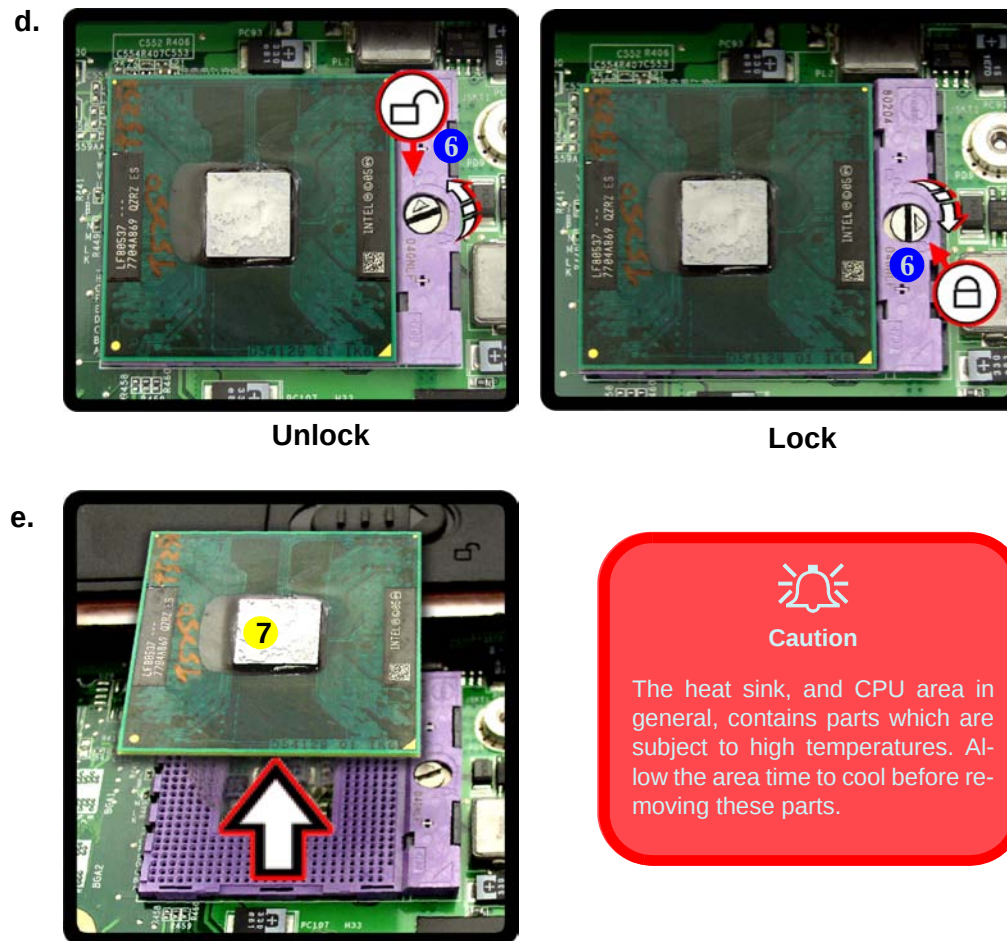
5. Heat Sink

- 3 Screws

5. Turn the release latch **6** towards the unlock symbol , to release the CPU (**Figure 11a**).
6. Carefully (it may be hot) lift the CPU **7** up out of the socket (**Figure 11b**).
7. See [page 2 - 16](#) 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!).

Figure 11
Processor Removal
(cont'd)

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



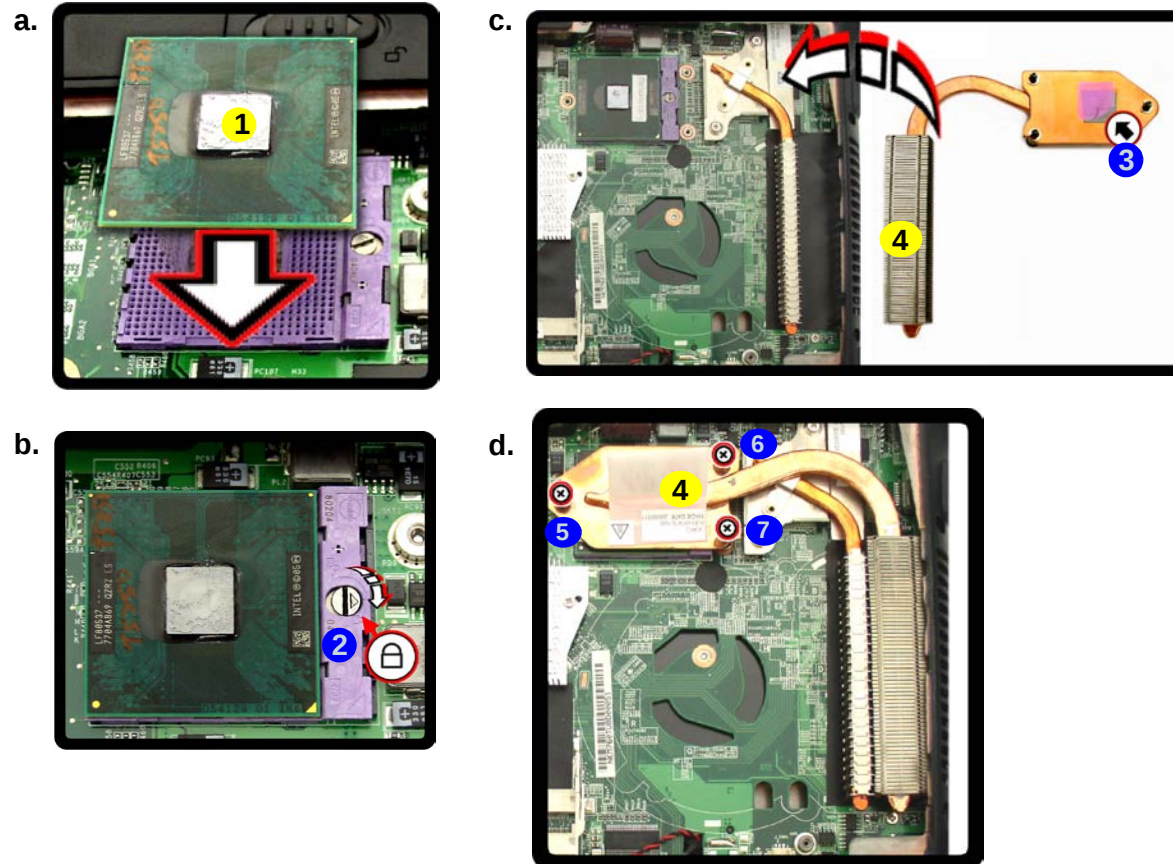
Disassembly

Figure 12
Processor Installation

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

Processor Installation Procedure

- Insert the CPU **1**, pay careful attention to the pin alignment, it will fit only one way (DO NOT FORCE IT!), and turn the release latch **2** towards the lock symbol  (**Figure 12b**).
- Remove the sticker **3**** (**Figure 12c**) from the heat sink.
- Insert the heat sink **4** as indicated in **Figure 12c**.
- Tighten screws **5** - **7** in the order indicated on the label.
- Replace the component bay cover and tighten the screws (**page 2 - 14**).

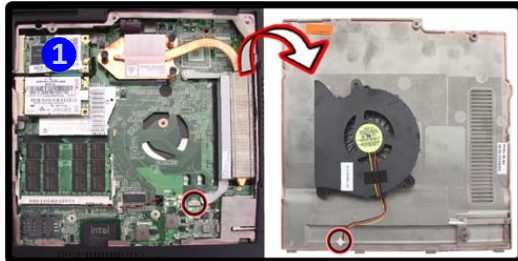


- CPU
 - Heat Sink
- 3 Screws

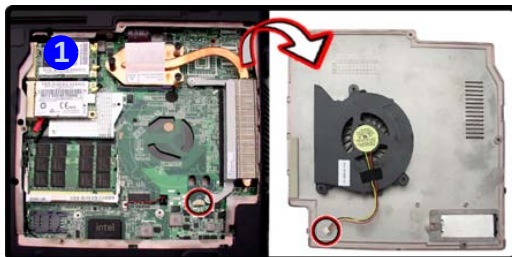
Removing the Wireless LAN Module

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 11](#)).
2. The Wireless LAN module will be visible at point **1** on the mainboard.
3. Carefully disconnect cables **2** - **3**, then remove screw **4** from the module socket.
4. The Wireless LAN module **5** will pop-up.
5. Lift the Wireless LAN module ([Figure 13d](#)) up and off the computer.

a. M740T/M740TU/M740TU-F2



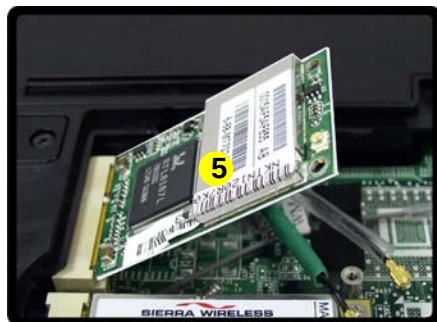
M760T/M760TU



b.



c.



d.

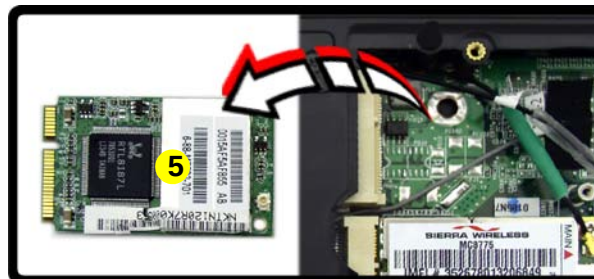


Figure 13
Wireless LAN
Module Removal

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

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



5. WLAN Module.

- 1 Screw

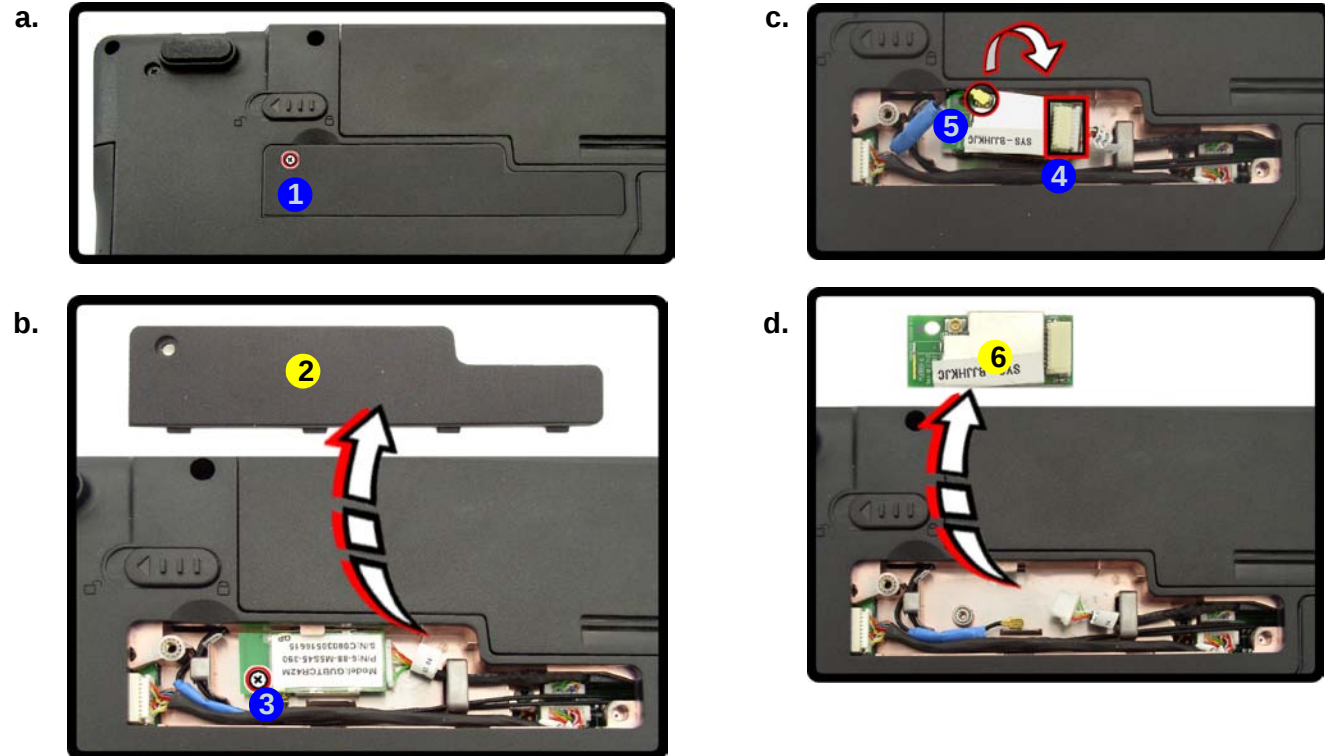
Disassembly

Figure 14
Bluetooth Module Removal

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

Removing the Bluetooth Module

1. Turn **off** the computer, remove the battery ([page 2 - 5](#)).
2. Locate the Bluetooth bay cover, and remove the screw ① and cover ②.
3. Remove the screw ③ and turn the module over.
4. Carefully separate the Bluetooth module from the connector ④ and disconnect the cable ⑤.
5. Lift the Bluetooth module ⑥ ([Figure 14c](#)) up and off the computer.



2. Cover
6. Bluetooth Module

- 2 Screws

Removing the Keyboard

1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. Press the **four** keyboard latches at the top of the keyboard to elevate the keyboard from its normal position (you may need to use a small screwdriver to do this).
3. Carefully lift the keyboard **5** up, being careful not to bend the keyboard ribbon cable ([Figure 15b](#)).
4. Disconnect the keyboard ribbon cable **6** from the locking collar socket **7**.

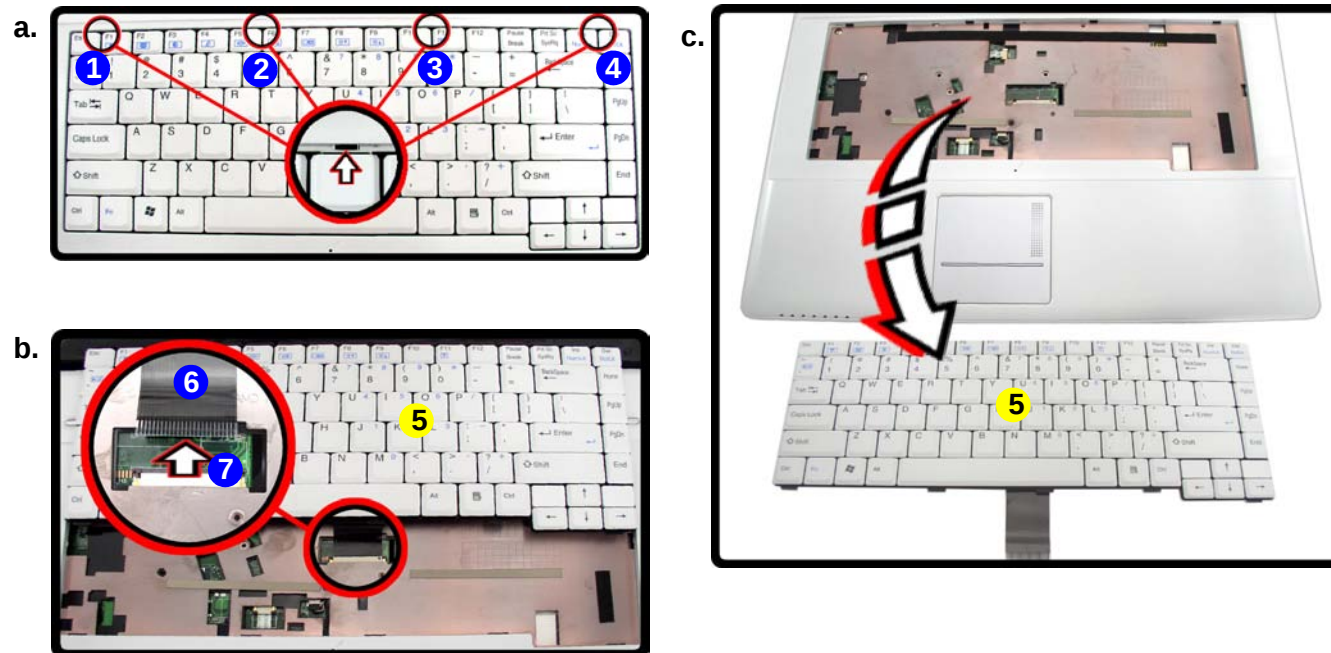


Figure 15
Keyboard Removal

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



Re-Inserting the Keyboard

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



5. Keyboard

Disassembly

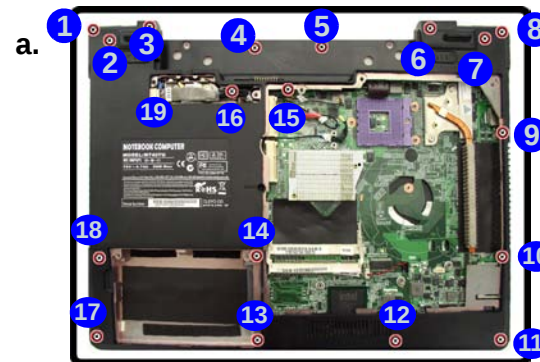
Figure 16
Modem Removal

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

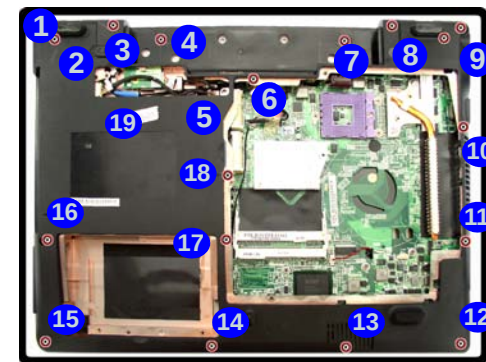
Removing the Modem

- Turn **off** the computer, remove the battery ([page 2 - 5](#)), HDD ([page 2 - 6](#)), component bay cover ([page 2 - 11](#)), optical device ([page 2 - 9](#)), CPU ([page 2 - 14](#)), bluetooth ([page 2 - 18](#)) and keyboard ([page 2 - 19](#)).
- Remove screws ① - ⑱ from the bottom case and carefully disconnect the cable ⑲ from the mainboard ([Figure 17a](#)).
- Turn the computer over, remove screws ⑳ - ㉑ and disconnect cables ㉒ - ㉔ ([Figure 17b](#)).
- For M760T/M760TU only** - remove screws ㉕ - ㉖ ([Figure 17c](#)) from the rear of the computer.

M740T/M740TU/M740TU-F2



M760T/M760TU



c.



- 20 Screws (M740T/ M740TU/ M740TU-F2)/ 22 Screws (M760T/ M760TU)

5. Carefully lift the top case **27** up and off the computer (**Figure 17d**).
6. Remove screws **28** - **30** (**Figure 17e**) from the computer.
7. Remove screws **31** - **32** (**Figure 17f**) from the modem module.
8. Lift the modem up and separate the modem from the connector **33**.
9. Lift the modem **34** off the computer.

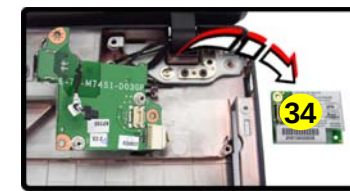
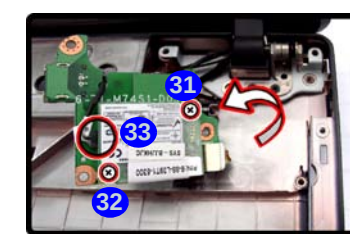
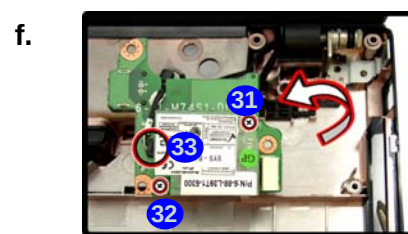
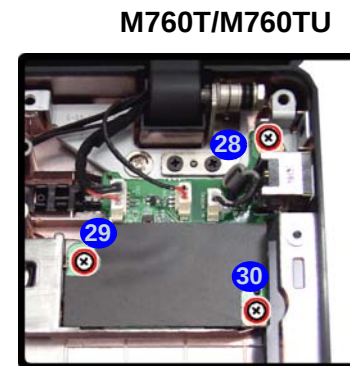
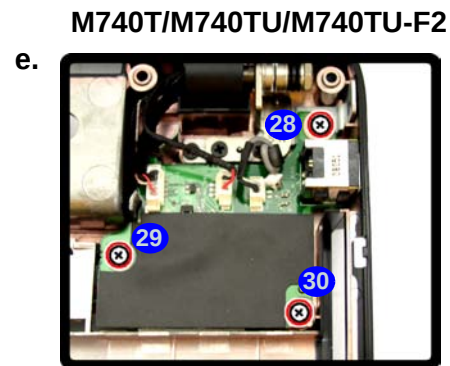
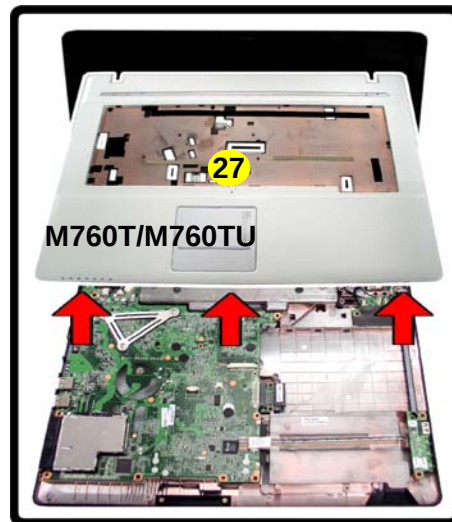


Figure 17
Modem Removal
(cont'd.)

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



27. Top Case
34. Modem

- 5 Screws (M740T/
M740TU/
M740TU-F2/
M760T/M760TU)

Appendix A: Part Lists

This appendix breaks down the *M740T/M740TU/M740TU-F2/M760T/M760TU* 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	M740T	M740TU	M740TU-F2	M760T	M760TU
Top with Fingerprint	page A - 3		page A - 4	page A - 15	
Top without Fingerprint	page A - 5		page A - 6	page A - 16	
Bottom	page A - 7	page A - 8	page A - 9	page A - 17	page A - 18
LCD	page A - 10		page A - 11	page A - 19	
HDD	page A - 12			page A - 20	
COMBO	page A - 13			page A - 21	
DVD-Dual Drive	page A - 14			page A - 22	

Top with Fingerprint (M740T/M740TU)

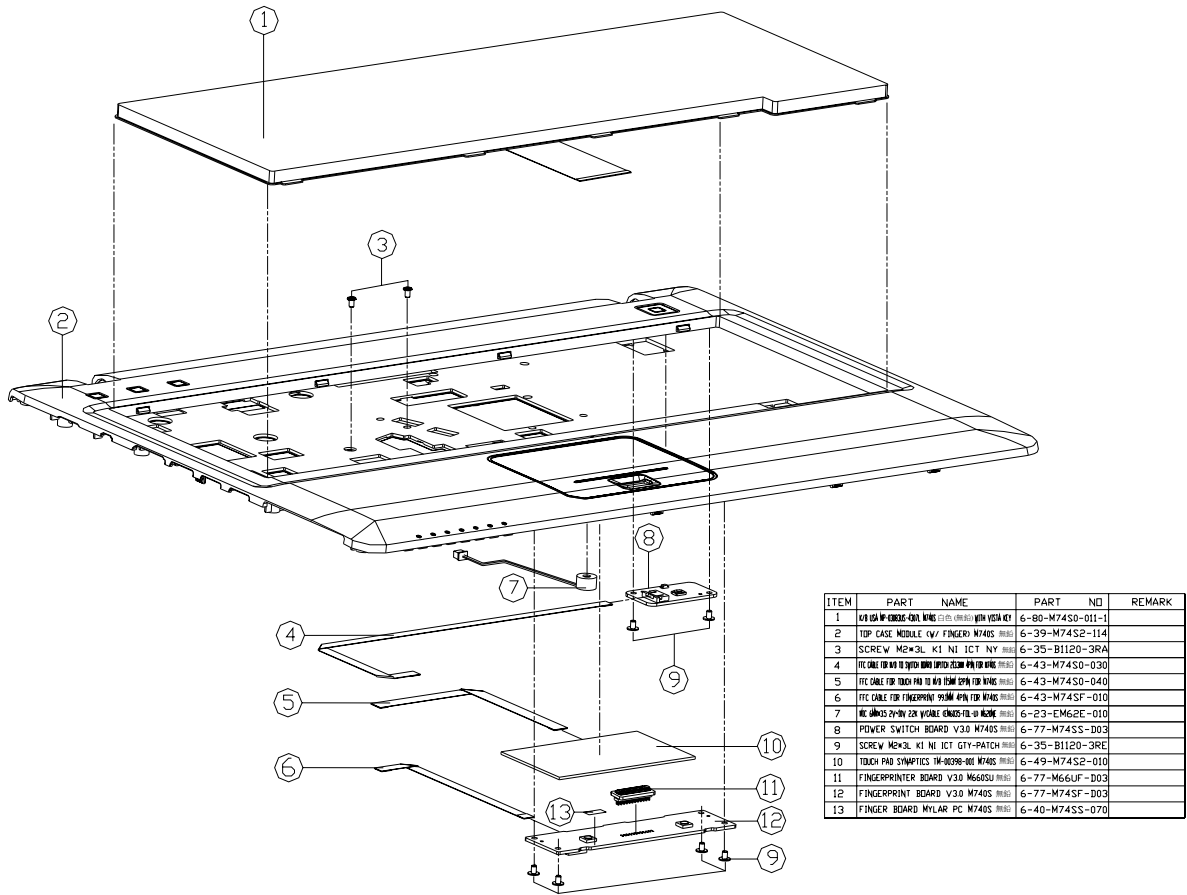
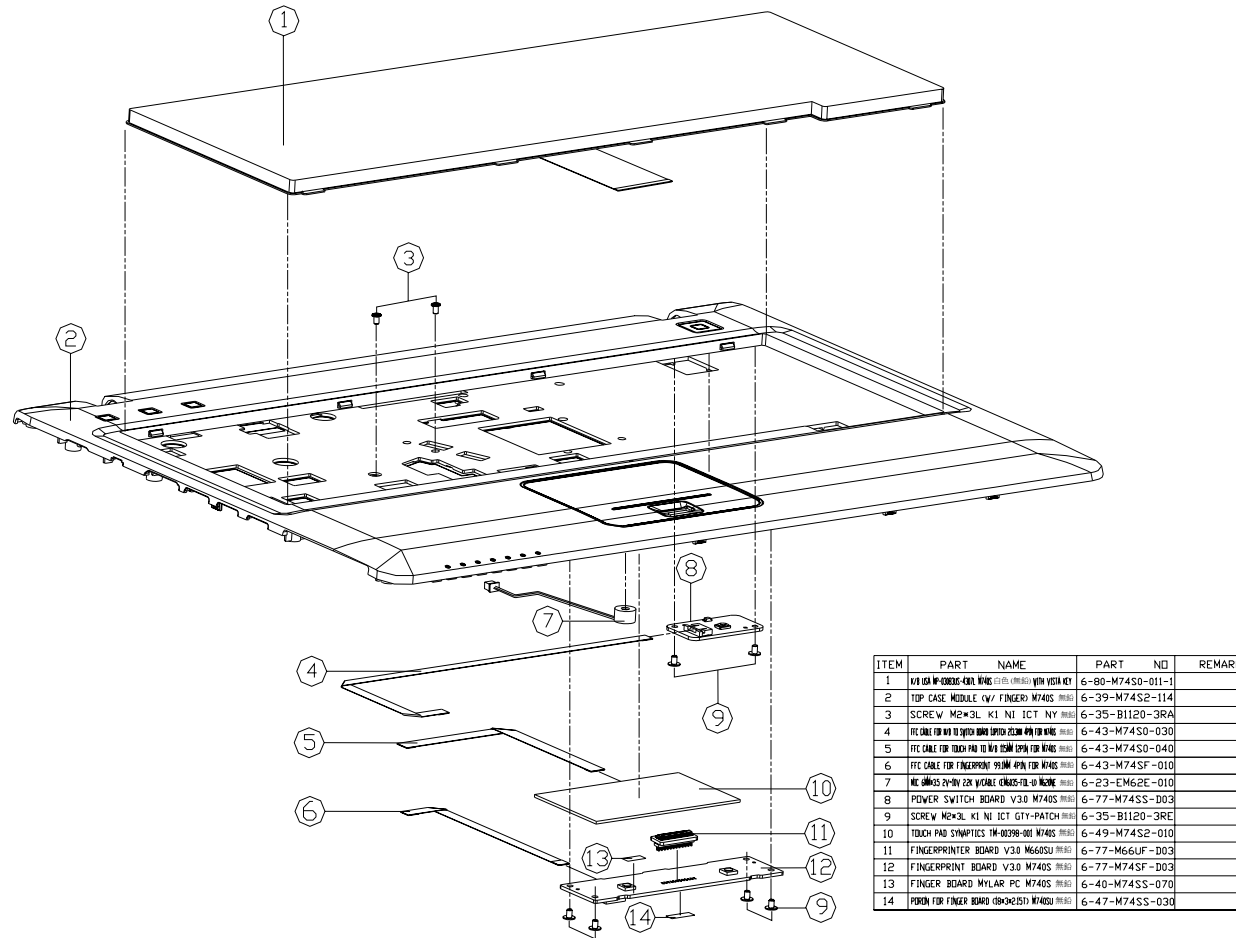


Figure A - 1
Top with
Fingerprint
(M740T/M740TU)

Part Lists

Top with Fingerprint (M740TU-F2)

Figure A - 2
Top with
Fingerprint
(M740TU-F2)



Top without Fingerprint (M740T/M740TU)

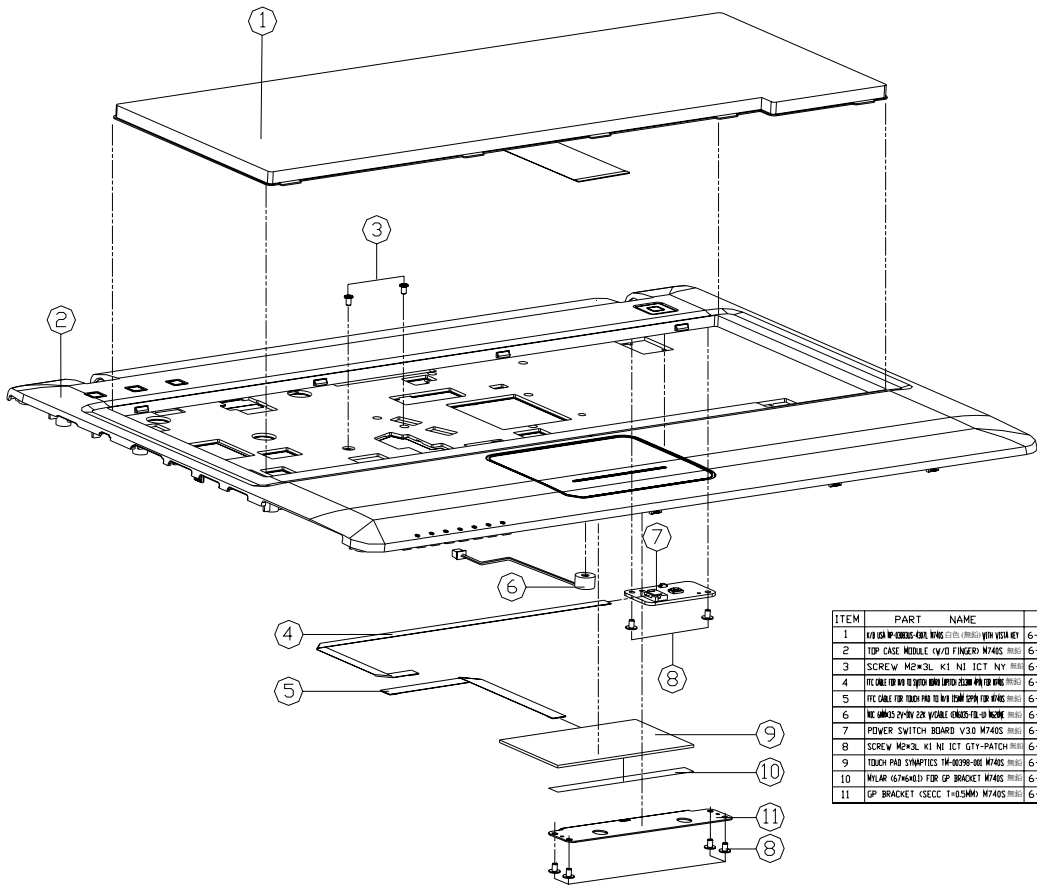
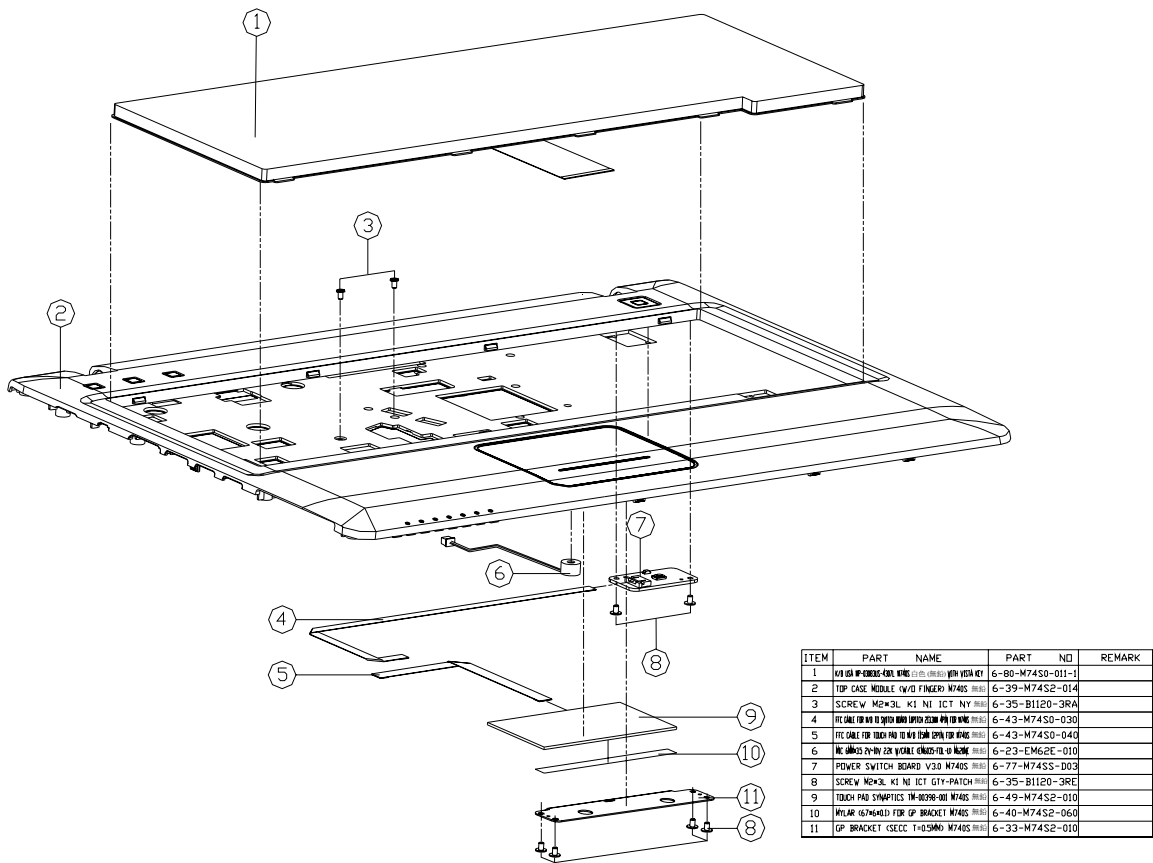


Figure A - 3
Top without
Fingerprint
(M740T/M740TU)

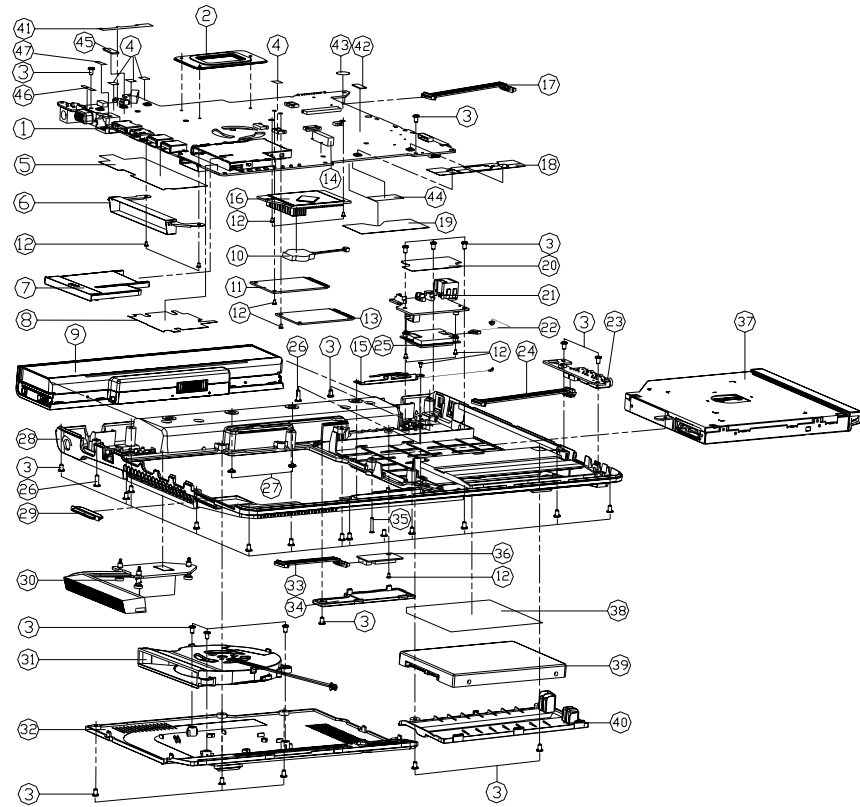
ITEM	PART	NAME	PART NO	REMARK
1	TOP CASE	MODULE (w/O FINGER) M740S	6-80-M74S0-011-1	
2	TOP CASE	MODULE (w/O FINGER) M740S	6-39-M74S2-014	
3	SCREW	M2*3L K1 NI ICT NY	6-35-B1120-3RA	
4	ITC CABLE	FOR W/O TO OPTIC W/O OPTIC CABLE FOR W/O	6-43-M74S0-030	
5	ITC CABLE	FOR TOUCH PAD TO W/O TOUCH CABLE FOR W/O	6-43-M74S0-040	
6	ITC CABLE	FOR W/O TO OPTIC W/O OPTIC CABLE FOR W/O	6-23-EM62E-010	
7	POWER SWITCH BOARD	V3.0 M740S	6-77-M74SS-D03	
8	SCREW	M2*3L K1 NI ICT GY-PATCH	6-35-B1120-3RE	
9	TOUCH PAD	SYNAPTICS TM-80380-001 M740S	6-49-M74S2-010	
10	MILAR	(67*4*0.1) FOR GP BRACKET M740S	6-40-M74S2-060	
11	GP	BRACKET (SECC T=0.5MM) M740S	6-33-M74S2-010	

Top without Fingerprint (M740TU-F2)

Figure A - 4
Top without
Fingerprint
(M740TU-F2)



Bottom (M740T)

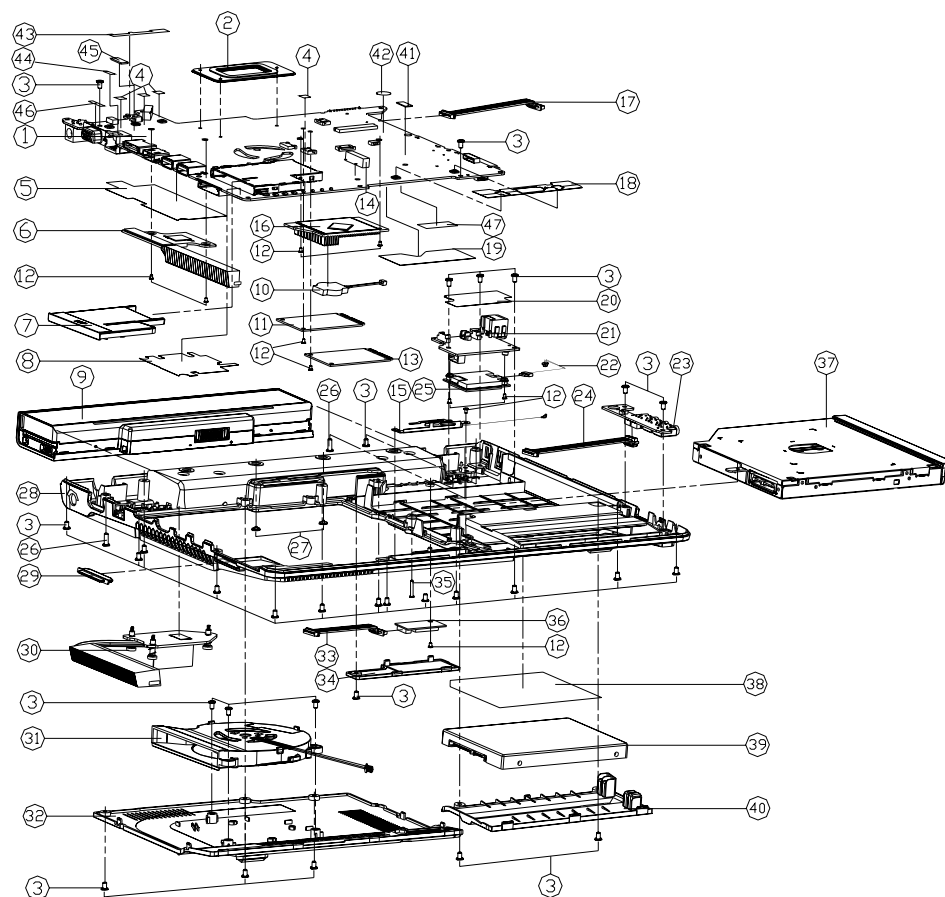


ITEM	PART NAME	PART NO	REMARK
1	MAIN BOARD V308 (W/3G) M740T	6-77-M740T-003B	
2	MAIN BOARD V308 (W/3G) M740T	6-77-M740T-003B-1	
3	CPU SUPPORT BRACKET 3G (W/3G) M740T	6-33-M594S-002	
4	SCREW M2X4.0 KI BK/2 ICT NY	6-35-B612S-5RA	
5	PROTECT MB MYLAR FRB3 M740S	6-40-M745S-020	
6	HEAT SINK MYLAR FRB3 M740S	6-40-M745S-011	
7	FAN AIR DUCT AL M740T	6-33-M7413-011	
8	BUNNY KEY CARD PC4B5 16GBR	6-42-T12R3-011	
9	NEW CARD MYLAR FRB3 M740T	6-45-M7413-010	(OPTION)
10	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-453	(OPTION)
11	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-454	(OPTION)
12	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-455	(OPTION)
13	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-456	(OPTION)
14	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-457	(OPTION)
15	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-458	(OPTION)
16	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-459	(OPTION)
17	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-460	(OPTION)
18	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-461	(OPTION)
19	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-462	(OPTION)
20	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-463	(OPTION)
21	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-464	(OPTION)
22	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-465	(OPTION)
23	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-466	(OPTION)
24	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-467	(OPTION)
25	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-468	(OPTION)
26	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-469	(OPTION)
27	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-470	(OPTION)
28	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-471	(OPTION)
29	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-472	(OPTION)
30	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-473	(OPTION)
31	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-474	(OPTION)
32	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-475	(OPTION)
33	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-476	(OPTION)
34	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-477	(OPTION)
35	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-478	(OPTION)
36	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-479	(OPTION)
37	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-480	(OPTION)
38	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-481	(OPTION)
39	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-482	(OPTION)
40	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-483	(OPTION)
41	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-484	(OPTION)
42	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-485	(OPTION)
43	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-486	(OPTION)
44	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-487	(OPTION)
45	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-488	(OPTION)
46	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-489	(OPTION)
47	BIOS FLASH MEMORY MODULE 8MB (W/3G)	6-87-M660S-490	(OPTION)

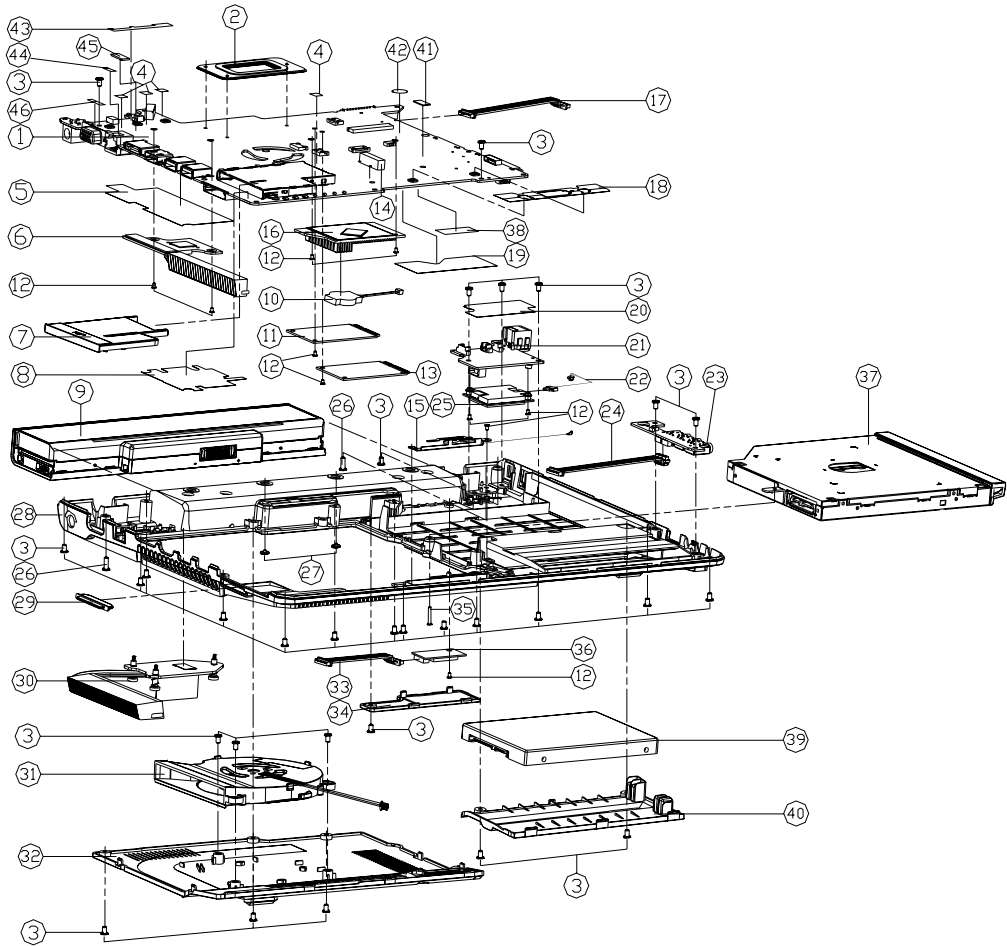
Figure A - 5
Bottom (M740T)

A.Part Lists

Figure A - 6
Bottom (M740TU)

[illegible]

Bottom (M740TU-F2)



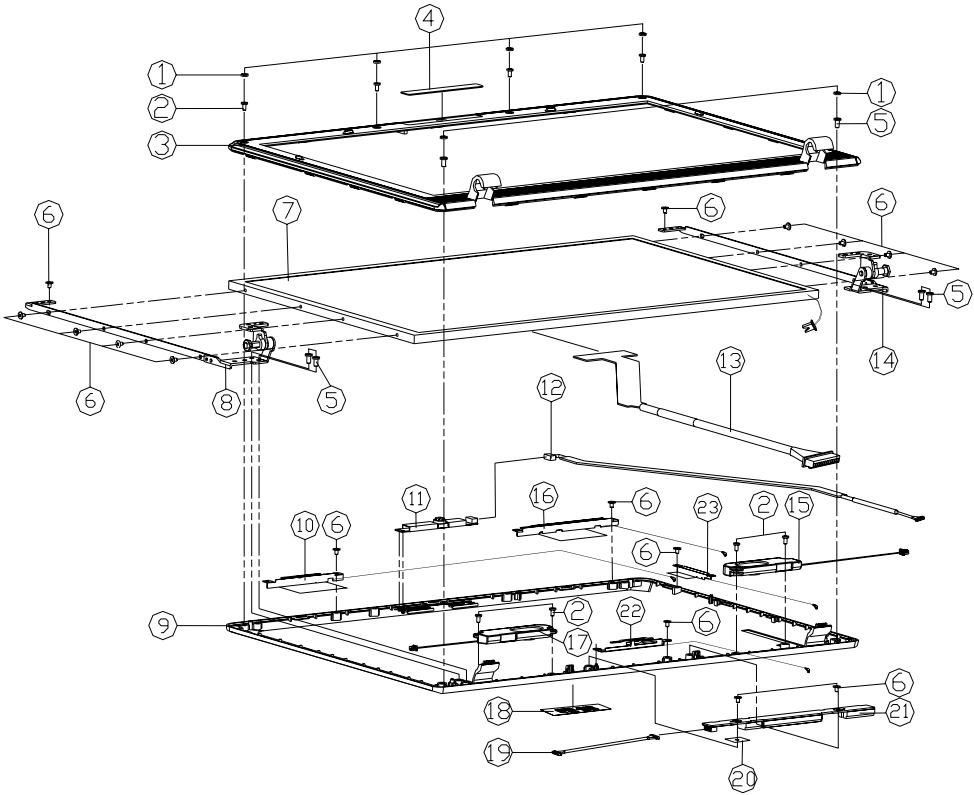
ITEM	PART NAME	PART NO	REMARK
1	MAIN BOARD V30B (W/D 3G) M740TU	6-77-M7410-D03B-U	
1	MAIN BOARD V30B (W/D 3G) M740TU	6-77-M7410-D03B-U	
2	CPU SUPPORT BRACKET SUS 430C/D M550N	6-33-M55NS-022	
3	SCREW M2.5XSL KT BK/Z ICT NY	6-35-B612S-SRA	
4	PROTECT MB MYLAR FRB3 M740S	6-40-M74SS-020	
5	HEAT SINK MYLAR FRB3 M740S	6-40-M74SN-012	
6	VGA THERMAL MODULE AL M740TU	6-31-M740N-100	
7	DUMMY NEW CARD PC+ABS TN120R	6-42-T12R3-011	
8	NEW CARD MYLAR FRB3 M740TU	6-40-M74T3-010	
9	DAIP S L1 11V/4A/1 32P SMP/DAW-2200 9	6-87-M660S-4P4	(OPTION)
10	DAIP S L1 11V/4A/1 32P SMP/DAW-2200 9	6-23-2201S-P2C	
11	DAIP S L1 11V/4A/1 32P SMP/DAW-2200 9	6-88-M55S2-7000	(OPTION)
11	DAIP S L1 11V/4A/1 32P SMP/DAW-2200 9	6-88-M7212-4210	(OPTION)
11	DAIP S L1 11V/4A/1 32P SMP/DAW-2200 9	6-88-M7212-4240	(OPTION)
12	SCREW M2XSL KT NY ICT NY	6-35-B1120-3RA	
13	W/DAIP S L1 11V/4A/1 32P SMP/DAW-2200 9	6-88-M72SW-720	(OPTION)
14	TOUCH PAD SPONGE (20X5X6) CR M740S	6-47-0019A-209	
15	ANTENNA YINX 24G/37G/5G PFA VAE 220M	6-23-7M74T-010	
16	NORTH BRIDGE HEAT SINK AL M740T	6-31-M74TN-012	
17	VIC CABLE SPIN W/8 TO AUDIO BOARD FOR M740S	6-43-M74SO-011	
18	FINGER BOARD MYLAR FRB3 M740S	6-40-M74SS-011	
19	DDR RAM MYLAR FRB3 M740T	6-40-M74TS-010	
20	MDC MYLAR FRB3 M740S	6-40-M74SU-010	
21	MULTI I/O BOARD V30 M740S	6-77-M74SI-D03	
22	VIC CABLE SPIN W/8 TO NIC MODULE FOR M740S	6-43-M74SU-010	
23	PHONE JACK I/O BOARD V30A M740S	6-77-M74SA-D03A	
24	VIC CABLE SPIN W/8 TO AUDIO BOARD FOR M740S	6-43-M74SO-021	
25	DAIP S L1 11V/4A/1 32P SMP/DAW-2200 9	6-88-L39T1-5300	(OPTION)
25	DAIP S L1 11V/4A/1 32P SMP/DAW-2200 9	6-88-M76S1-B110	(OPTION)
26	SCREW M2.5XSL KT BK/Z NY ICT	6-35-B612S-BR0	
27	SCREW HEXSL KT BK/Z ICT NY08T-066	6-35-B6120-2RE	
28	BOTTOM CASE MODULE M740S	6-39-M74S3-013	
29	M520G CARD READER RUBBER	6-47-M52G8-010	
30	CPU THERMAL MODULE AL M740T	6-31-M74TS-100-1	
31	FAN MODULE M740S	6-31-M74SS-101	
32	CPU COVER MODULE M740S	6-42-M74SS-102	
33	VIC CABLE SPIN W/8 TO SPIN BLUE TOOTH MODULE FOR M740S	6-43-M74SB-010	(OPTION)
34	BLUETOOTH COVER PC+ABS/640D M740S	6-42-M74SB-010	
35	SCREW M2X10L KT BK/Z ICT NY	6-35-B6120-100	
36	BLUETOOTH V20 QD10000 060 DCM 8 PIN USB	6-88-M5S45-620	(OPTION)
36	BLUETOOTH V20 QD10000 060 DCM 8 PIN USB	6-88-M5S45-390	(OPTION)
37	SATA DVD SUPER MULTI ASSY (OPTION) M740T	6-79-M740T00X-000	(OPTION)
38	SATA DVD COMBO ASSY (OPTION) M740T	6-79-M740T00X-000	(OPTION)
39	TAPE MYLAR (A) MYLAR M550J	6-40-M55J2-010	
40	W/D HDD ASS'Y M740S	6-79-M740S00J-010	
41	HDD COVER MODULE M740S	6-42-M74SJ-102	
42	NIC MYLARFRB3-TERADAK750F M740S	6-40-M74SS-030	
43	MYLAR DIO FRB3 M760S	6-40-M76S0-010	
44	HEIKET MYLAR FOR M740S-TERADAK750F M740S	6-40-M74SS-060	
45	HSM MYLAR (06X5X0.35) FOR M740T	6-47-M74TS-020	
46	MB TOP RUBBER SILICONE M740T	6-47-M74TS-030	
46	E-STAT MYLAR (05X4X0.35) FOR M740T	6-47-M74TS-010	

Figure A - 7
Bottom
(M740TU-F2)

Part Lists

LCD (M740T/M740TU)

Figure A - 8
LCD (M740T/
M740TU)



ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER SCREW HOLE RUBBER M2X5	6-47-M72S1-021	
2	SCREW M2X4 L 8Z ICT GY-PATCH 01-08 0-0	6-35-C6120-4RB	
3	LCD FRONT COVER MODULE M740S	6-39-M74S1-012	
4	CCD LINES (PMMA) M740S	6-42-M74S1-010	FOR CCD
4	CCD LINES (FR700) M740S	6-42-M74S1-020	FOR W/D CCD
5	SCREW M2X5L KI BK/Z ICT NY	6-35-B6125-5RA	
6	SCREW M2X5L KI NI ICT GY-PATCH	6-35-B1120-3RE	
7	LCD 14P VGA+ CHANEL MATCH-LUS S5MM	6-50-JC255-D07	OPTION
7	LCD 14P VGA+ CHANEL MATCH-LUS S5MM	6-50-JC255-D06	OPTION
7	LCD 14P VGA+ CHANEL MATCH-LUS S5MM	6-50-J7255-D04	OPTION
7	LCD 14P VGA+ CHANEL MATCH-LUS S5MM	6-50-J7255-D05	OPTION
7	LCD 14P VGA+ CHANEL MATCH-LUS S5MM	6-50-J7255-D05	OPTION
8	LCD HINGE L (SECC+SK7) M740S	6-33-M74S1-022	
9	LCD BACK COVER MODULE M740S	6-39-M74S1-021	
10	ANTENNA VIBRA 24G PPA 10 25MM	6-23-7M74S-020	
11	AVC CAMERA RIGID FOR INVERTER-001 LCM M740T	6-88-M740C-49P1	FOR M740T(OPTION)
11	AVC CAMERA RIGID FOR INVERTER-001 LCM M740T	6-88-M740C-49P1	FOR M740T(OPTION)
12	VIBR CABLE SPIN W/ TO CCD 24G25MM MODULE	6-43-M740C-011	FOR CCD
13	VIBR CABLE SPIN W/ TO CCD 24G25MM FOR M740S	6-43-M74S1-010	
14	LCD HINGE R (SECC+SK7) M740S	6-33-M74S1-012	
15	SPR CABLE SUM LCM BY 05-2500P0 L-SIDE M740S	6-23-5M74S-011	
16	ANTENNA VIBRA 24G PPA 10 25MM	6-23-7M74S-010	OPTION
17	SPR CABLE SUM LCM BY 05-2500P0 L-SIDE M740S	6-23-5M74S-021	
18	STYLE M740T LCM 05-2500P0 L-SIDE M740S	6-45-M74S1-012	
19	VIBR CABLE FOR W/D INVERTER 24G25MM PPA 10 25MM	6-43-M74S1-011	
20	INVERTER M740R 05-2500P0 LCM M740S	6-40-M76S1-010	
21	INVERTER M740R 05-2500P0 LCM M740S	6-76-M6R6R-010	OPTION
21	INVERTER M740R 05-2500P0 LCM M740S	6-76-M6G0R-011	OPTION
22	ANTENNA VIBRA 24G PPA 10 25MM	6-23-7M74T-021	OPTION
23	ANTENNA BLUE THERM 24G PPA 10 25MM	6-23-7M74S-030	OPTION

LCD (M740TU-F2)

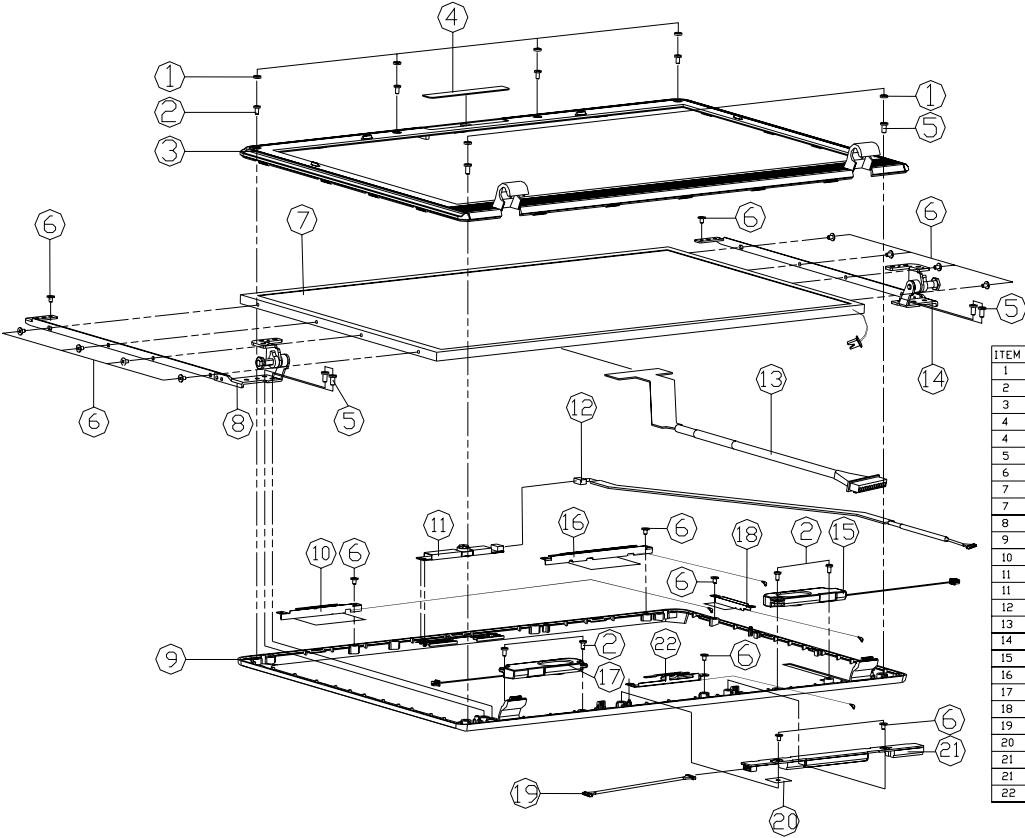


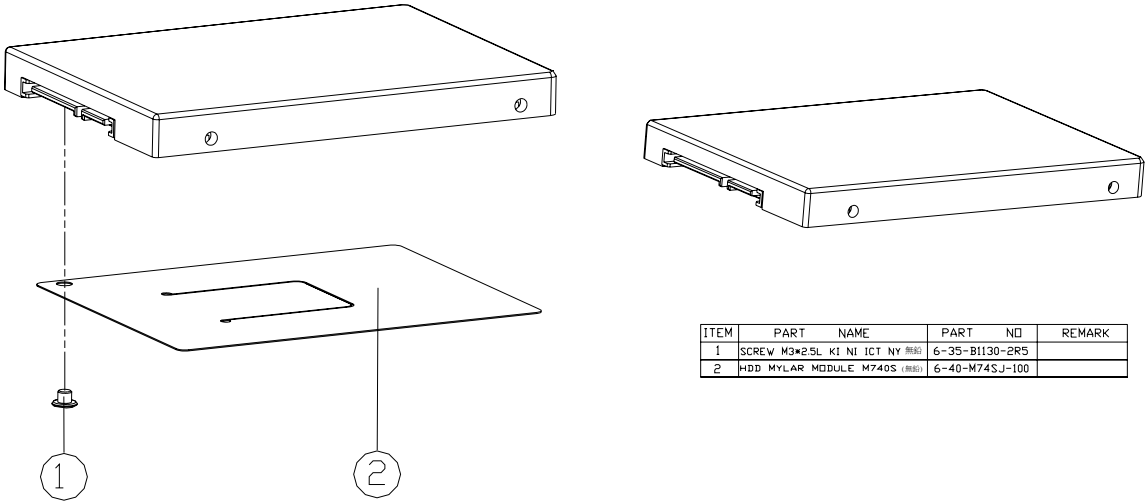
Figure A - 9
LCD (M740TU-F2)

ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER SCREW HOLE RUBBER W/20S	6-47-M72S1-021	
2	SCREW M4xL 1.8Z ICT GY-PATCH (H-B D-4)	6-35-C6120-4RB	
3	LCD FRONT COVER MODULE M740S	6-39-M74S1-012-2	
4	CCD LINES (PMMA) M740S	6-42-M74S1-010	FOR CCD
4	CCD LINES (FR700) M740S	6-42-M74S1-020	FOR W/D CCD
5	SCREW M2.5xSL KI BK/Z ICT NY	6-35-B6125-5RA	
6	SCREW M4xL KI NI ICT GY-PATCH	6-35-B1120-3RE	
7	LCD HTP VESA NO BRACKET/LINE TYPE/ Q25 SSM	6-50-J7255-G01	<OPTION>
7	LCD HTP VESA NO BRACKET/VA GLUE TYPE/ SSM	6-50-JC255-G05	<OPTION>
8	LCD HINGE L (SECC+SK7) M740S	6-33-M74S1-022	
9	LCD BACK COVER MODULE M740TU-F2	6-39-M7401-021	
10	ANTENNA VIBRA 2x6/3x5/6 PPA VIB SSM	6-23-7M74S-020	
11	UVX CAMERA BEZEL FOR DISC/MS7-020 2M M740TU	6-88-M740C-4922	
11	UVX CAMERA BEZEL FOR DISC/MS7-020 2M M740TU	6-88-M740C-4913	
12	WIRE CABLE SPIN W/B TO CCD 27425MM MODULE	6-43-M74ST-011	FOR CCD
13	WIRE CABLE SPIN W/B TO LCD 27425MM FOR M740S	6-43-M74S1-010	
14	LCD HINGE R (SECC+SK7) M740S	6-33-M74S1-012	
15	SPK CABLE 20MM 15W BY 07000MM-010 8-SIDE M740S	6-23-5M74S-030	
16	ANTENNA VIBRA 3G PIFA 450MM	6-23-7M74S-010	<OPTION>
17	SPK CABLE 20MM 15W BY 07000MM-010 8-SIDE M740S	6-23-5M74S-043	
18	ANTENNA BLUE TOOTH 2.4G PIFA BY 200MM	6-23-7M74S-030	<OPTION>
19	WIRE CABLE FOR W/B TO INVERTER FROM 6 PIN W/40S	6-43-M74SR-011	
20	INVERTER W/40R (THERMISTOR) SMD M740S	6-40-M76S1-010	
21	INVERTER MODULE 2M W/B IN 40-PIN CABLE	6-76-M66R6-010	<OPTION>
21	INVERTER MODULE 2M W/B IN 40-PIN CABLE	6-76-M66R6-011	<OPTION>
22	ANTENNA VIBRA 2x6/3x5/6 PPA VIB SSM	6-23-7M74T-021	<OPTION>

Part Lists

HDD (M740T/M740TU)

Figure A - 10
HDD
(M740T/M740TU)



ITEM	PART NAME	PART NO	REMARK
1	SCREW M3*2.5L K1 NI ICT NY (HDD)	6-35-B1130-2R5	
2	HDD MYLAR MODULE M740S (HDD)	6-40-M74SJ-100	

COMBO (M740T/M740TU)

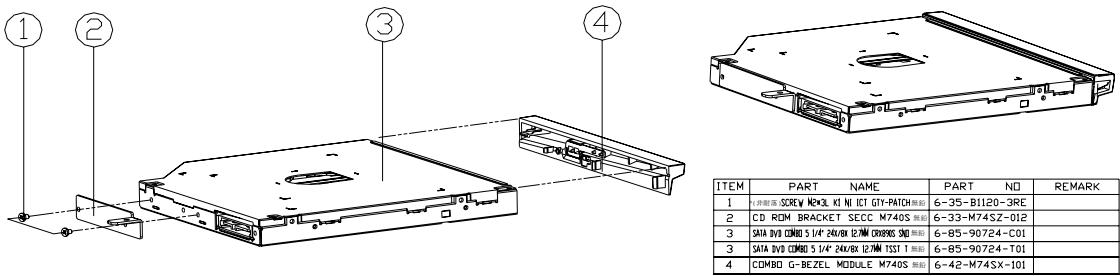
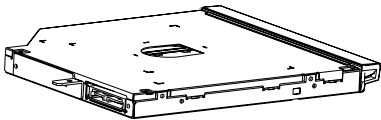
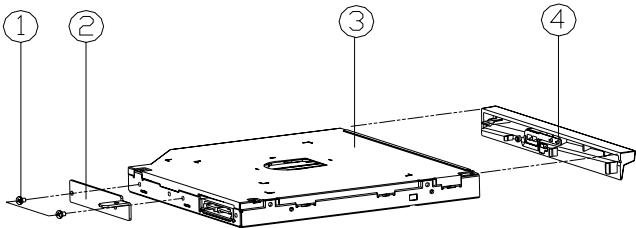


Figure A - 11
COMBO
(M740T/M740TU)

Part Lists

DVD-Dual Drive (M740T/M740TU)

Figure A - 12
DVD-Dual Drive
(M740T/M740TU)



ITEM	PART NAME	PART NO	REMARK
1	SCREW M4X3 KI NI ICT GY-PATCH	6-35-B1120-3RE	
2	CD ROM BRACKET SECC M740S	6-33-M74SZ-012	
3	SATA DVD SUPER MULTI S 1/4 24X/8X 127MM	6-85-A0724-T02	
3	SATA DVD SUPER MULTI S 1/4 24X/8X 127MM	6-85-A0724-C01	
4	SUPER MULTI G-BEZEL MODULE M740S	6-42-M74SQ-101	

Top with Fingerprint (M760T/M760TU)

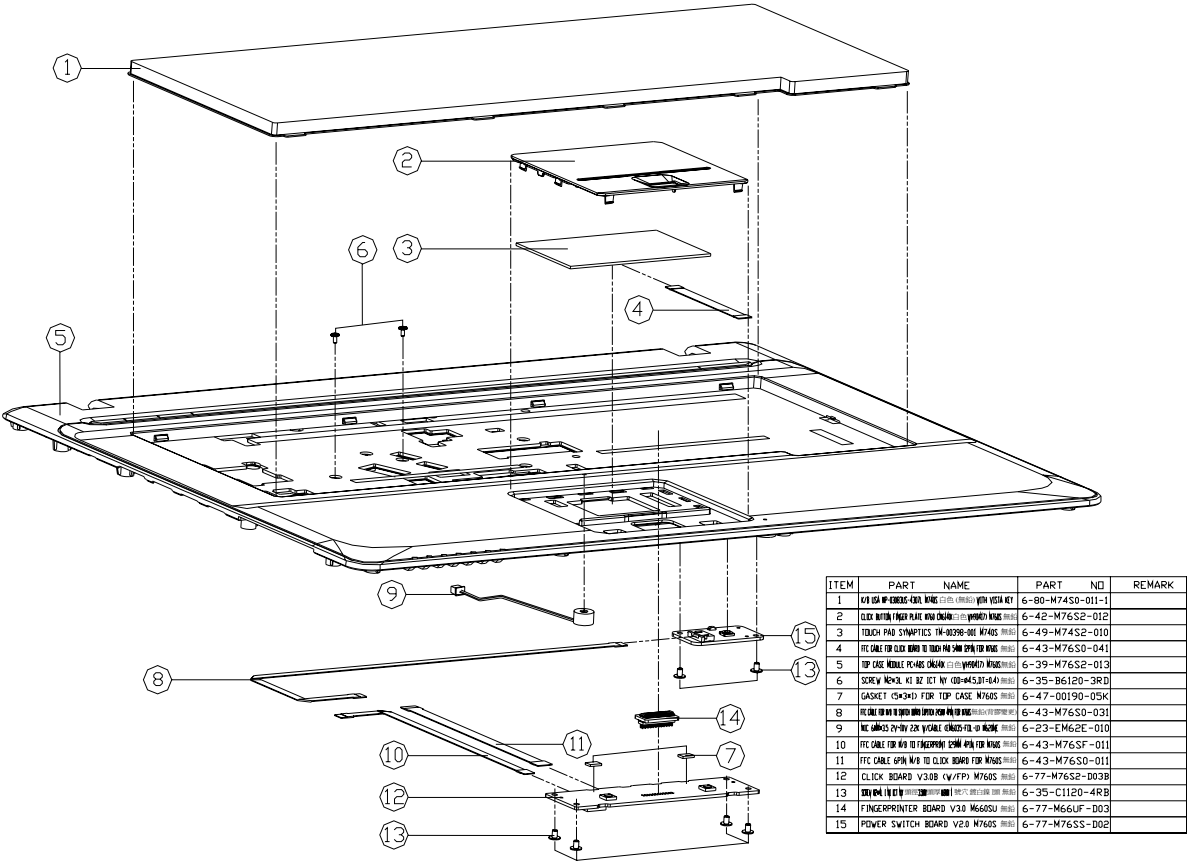
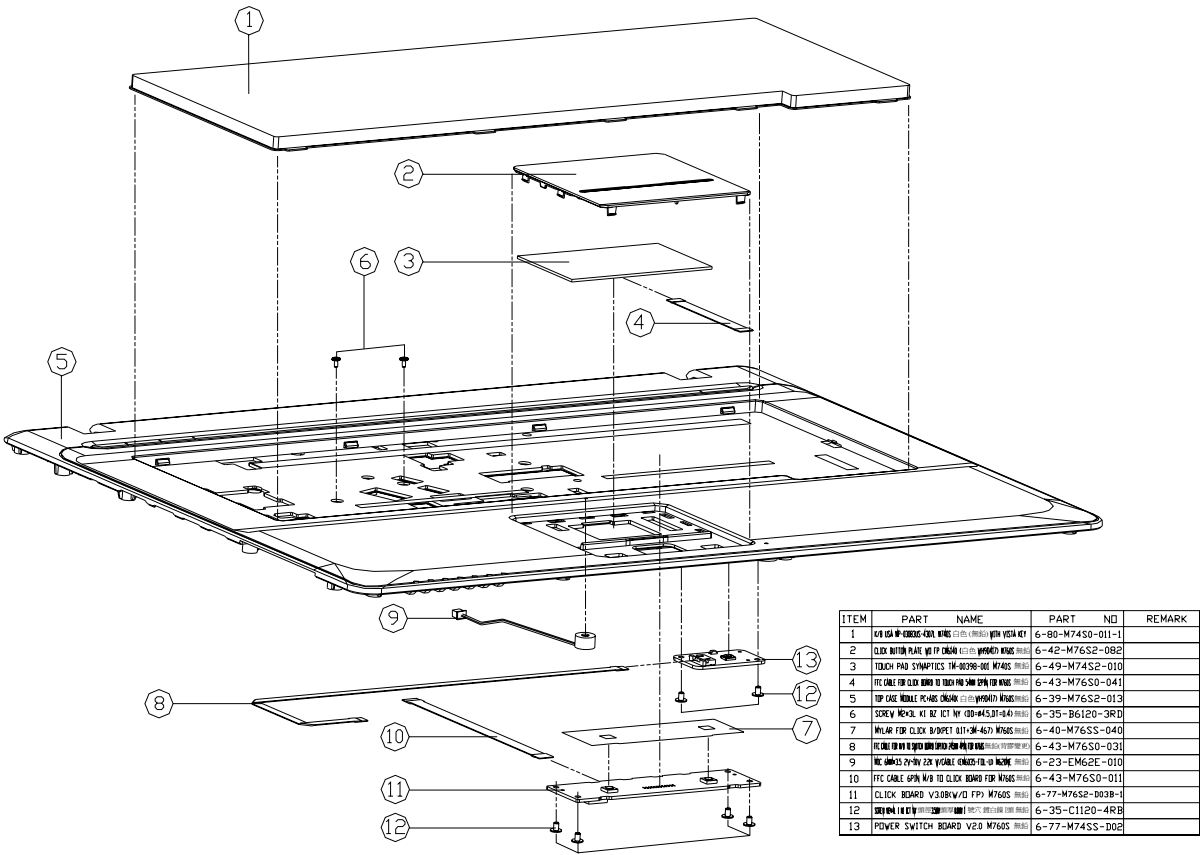


Figure A - 13
Top with
Fingerprint
(M760T/M760TU)

ITEM	PART NAME	PART NO	REMARK
1	TOP CASE W/ FINGERPRINT BOARD (M760T/M760TU)	6-80-M7450-011-1	
2	CLICK BUTTON (FINGERPRINT BOARD)	6-42-M7652-012	
3	TOUCH PAD SYMPHONY TM-00290-001 M760S	6-49-M7452-010	
4	ITC CABLE FOR CLICK BOARD TO TOUCH PAD (M760T/M760TU)	6-43-M7650-041	
5	TOP CASE INTERNAL POWER SW (M760T/M760TU)	6-39-M7652-013	
6	SCREW M2X4 K1 BZ ICT NY (100-04531-040)	6-35-B6120-3RD	
7	GASKET (5X3X1) FOR TOP CASE M760S	6-47-00190-05K	
8	ITC CABLE FOR FINGERPRINT BOARD TO TOUCH PAD (M760T/M760TU)	6-43-M7650-031	
9	ITC CABLE 2Y-0V 2X 1/2" CABLE CONNECTOR (M760T/M760TU)	6-23-EM62E-010	
10	ITC CABLE FOR FINGERPRINT BOARD TO TOUCH PAD (M760T/M760TU)	6-43-M765F-011	
11	ITC CABLE 6PIN W/8 TO CLICK BOARD FOR M760S	6-43-M7650-011	
12	CLICK BOARD V3.0B (W/FP) M760S	6-77-M7652-003B	
13	POWER SW (M760T/M760TU)	6-35-C1120-4RB	
14	FINGERPRINTER BOARD V3.0 M660SU	6-77-M66UF-003	
15	POWER SWITCH BOARD V2.0 M760S	6-77-M765S-002	

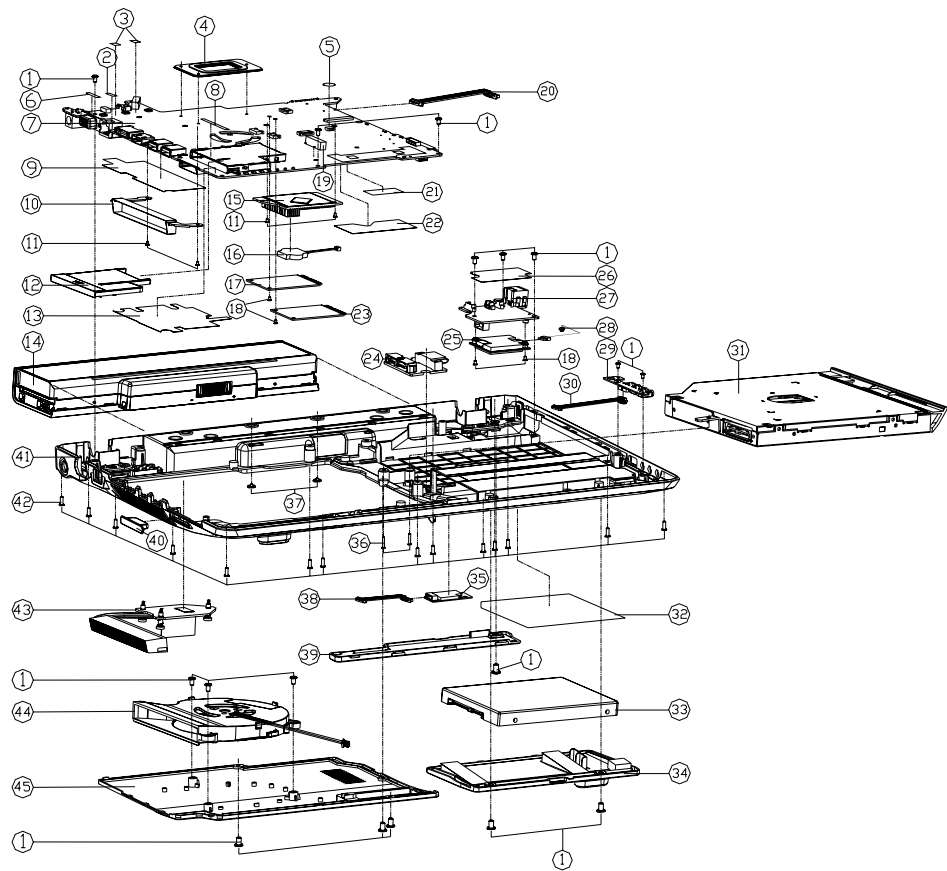
Top without Fingerprint (M760T/M760TU)

Figure A - 14
Top without
Fingerprint
(M760T/M760TU)



A - 16 Top without Fingerprint (M760T/M760TU)

Bottom (M760T)



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2.5X5L K1 BK/2 ICT NY- (M66)	6-35-B612S-SRA	
2	HDR (M66) (QD454251) FOR W/B M740T (M66)	6-47-M74TS-020	
3	PROTECT MB MYLAR FRB3 M740S (M66)	6-40-M74SS-020	
4	CPU SUPPORT BRACKET SUS 430C/D M550 (M66)	6-33-M55NS-022	
5	MYLAR D10 FRB3 M760S (M66)	6-40-M76SO-010	
6	E-STAT (M66) (M5454251) FOR W/B M740T (M66)	6-47-M74TS-010	
7	MAIN BOARD V3.0B (W/3D) M760T (M66)	6-77-M76T0-D03B	
8	MAIN BOARD V3.0B (W/3D) M760T (M66)	6-77-M76T0-D03B-1	
9	HEAT SINK MYLAR FRB3 M740S (M66)	6-40-M74SN-011	
10	FAN AIR DUCT AL M740T (M66)	6-33-M74T3-011	
11	SCREW M2X3L K1 NI ICT NY- (M66)	6-35-B1120-3RA	
12	DUMMY NEW CARD PC+BS T120R (M66)	6-42-T12R3-011	
13	NEW CARD MYLAR FRB3 M740T (M66)	6-40-M74T3-010	
14	BATP S L1 100V/44W 32P GLY/PW/ANG/INC 72 (M66)	6-87-M66NS-453 (OPTION)	
14	BATP S L1 100V/44W 32P GLY/PW/ANG/INC 72 (M66)	6-87-M66GS-454 (OPTION)	
14	BATP S L1 100V/44W 32P GLY/PW/ANG/INC 72 (M66)	6-87-M66GS-453 (OPTION)	
14	BATP S L1 100V/44W 32P GLY/PW/ANG/INC 72 (M66)	6-87-M66GS-4P4 (OPTION)	
14	BATP S L1 100V/44W 32P GLY/PW/ANG/INC 72 (M66)	6-87-M66NS-4C3 (OPTION)	
15	NORTH BRIDGE HEAT SINK AL M740T (M66)	6-31-M74TN-012	
16	ALUMINUM HEAT SINK FOR NORTH BRIDGE (M66)	6-23-2201S-P2C	
17	ALUMINUM HEAT SINK FOR SOUTH BRIDGE (M66)	6-88-M55S2-7000 (OPTION)	
17	ALUMINUM HEAT SINK FOR SOUTH BRIDGE (M66)	6-88-M72T2-4210 (OPTION)	
17	ALUMINUM HEAT SINK FOR SOUTH BRIDGE (M66)	6-88-M72T2-4240 (OPTION)	
18	TOUCH PAD SPONGE (QD4546) CR M740S (M66)	6-35-B1120-3RD	
19	TOUCH PAD SPONGE (QD4546) CR M740S (M66)	6-47-0019A-209	
20	Y/CABLE SUPPLY W/4 TO MULTI BAY FOR W/B (M66)	6-43-M76SO-022	
21	TAPE MYLAR (CA)MYLAR M550J (M66)	6-40-M55J2-010	
22	DDR RAM MYLAR FRB3 M740T (M66)	6-40-M74TS-010	
23	Y/CABLE SUPPLY W/4 TO MULTI BAY FOR W/B (M66)	6-88-M72SW-720 (OPTION)	
24	DDR BRIDGE BOARD V3.0 M760T (M66)	6-77-M76TN-D03	
25	DDR BRIDGE BOARD V3.0 M760T (M66)	6-88-L39T1-5300 (OPTION)	
26	MDC MYLAR FRB3 M740S (M66)	6-40-M74SU-010	
27	MULTI I/O BOARD V3.0 M740S (M66)	6-77-M74S1-D03	
28	Y/CABLE SUPPLY W/4 TO MULTI BAY FOR W/B (M66)	6-43-M76SO-052	
29	PHONE JACK & USB BOARD V3.0A M740S (M66)	6-77-M74SA-D03A	
30	Y/CABLE SUPPLY W/4 TO MULTI BAY FOR W/B (M66)	6-43-M74SU-010	
31	SATA DVD SUPER MULTI ASSY (OPTION) M760T (M66)	6-79-M76T000-000 (OPTION)	
31	SATA DVD SUPER MULTI ASSY (OPTION) M760T (M66)	6-79-M76T00X-000 (OPTION)	
32	PRODUCT LABEL FOR M760T (M66)	6-45-M76T3-010	
32	PRODUCT LABEL FOR M765T (M66)	6-45-M765T-010	
32	PRODUCT LABEL FOR M766T (M66)	6-45-M766T-010	
32	PRODUCT LABEL FOR M767T (M66)	6-45-M767T-010	
33	W/D HDD ASS'Y M760S (M66)	6-79-M76S00J-010	
34	HDD COVER MODULE (M66) M760S (M66)	6-42-M76SJ-102	
35	BLUE/RED VEB GARDIAN (M66) 8 PIN USB (M66)	6-88-M554S-620 (OPTION)	
35	BLUE/RED VEB GARDIAN (M66) 8 PIN USB (M66)	6-88-M554S-390 (OPTION)	
36	SCREW M2X5L K1 BK/2 ICT NY- (M66)	6-35-B6120-BRD	
37	SCREW M2X5L K1 BK/2 ICT NY- (M66)	6-35-B6120-BRD	
38	Y/CABLE SUPPLY W/4 TO MULTI BAY FOR W/B (M66)	6-43-M76SB-011 (OPTION)	
39	BT COVER MODULE (M66) M760S (M66)	6-42-M76SB-101	
40	RADIO/IR RECEIVER/KEYPAD (M66) M760T (M66)	6-47-M76SB-010	
41	BT COVER MODULE (M66) M760S (M66)	6-39-M76S3-012	
42	SCREW M2.5X5L K1 BK/2 NY ICT NY- (M66)	6-35-B612S-BRD	
43	CPU THERMAL MODULE AL M740T (M66)	6-31-M74TS-100	
44	FAN MODULE M740S (M66)	6-31-M74SS-101	
45	CPU COVER MODULE M760S (M66) M760S (M66)	6-42-M76SS-102	

Figure A - 15
Bottom (M760T)

Bottom (M760TU)

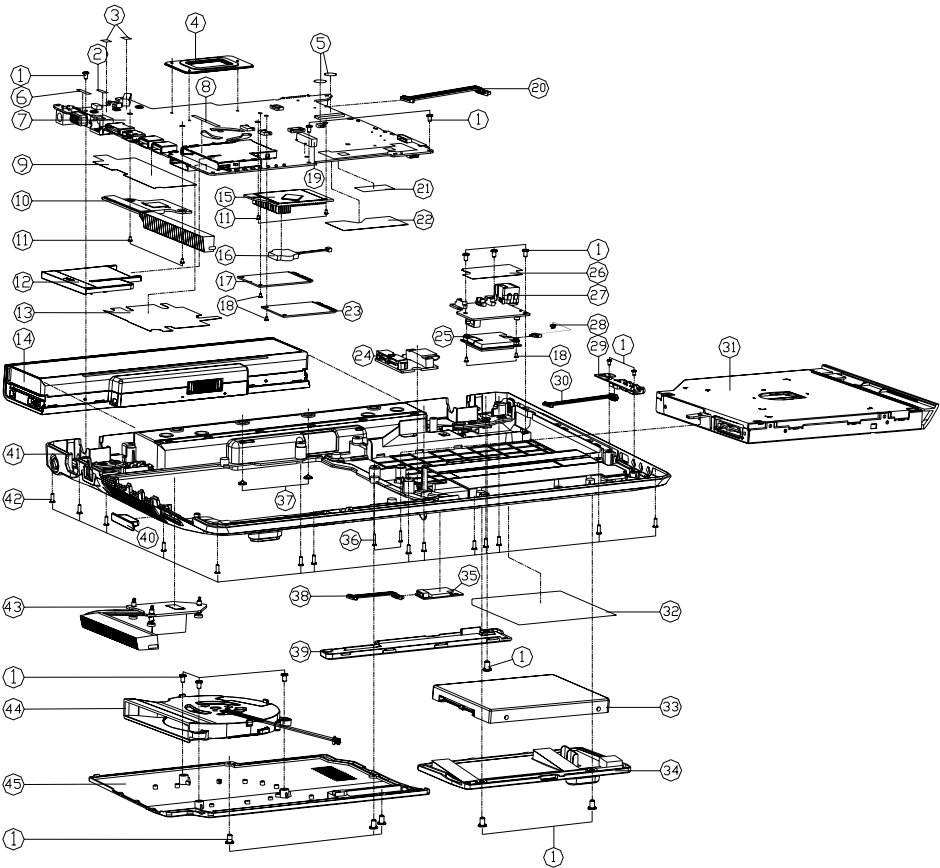
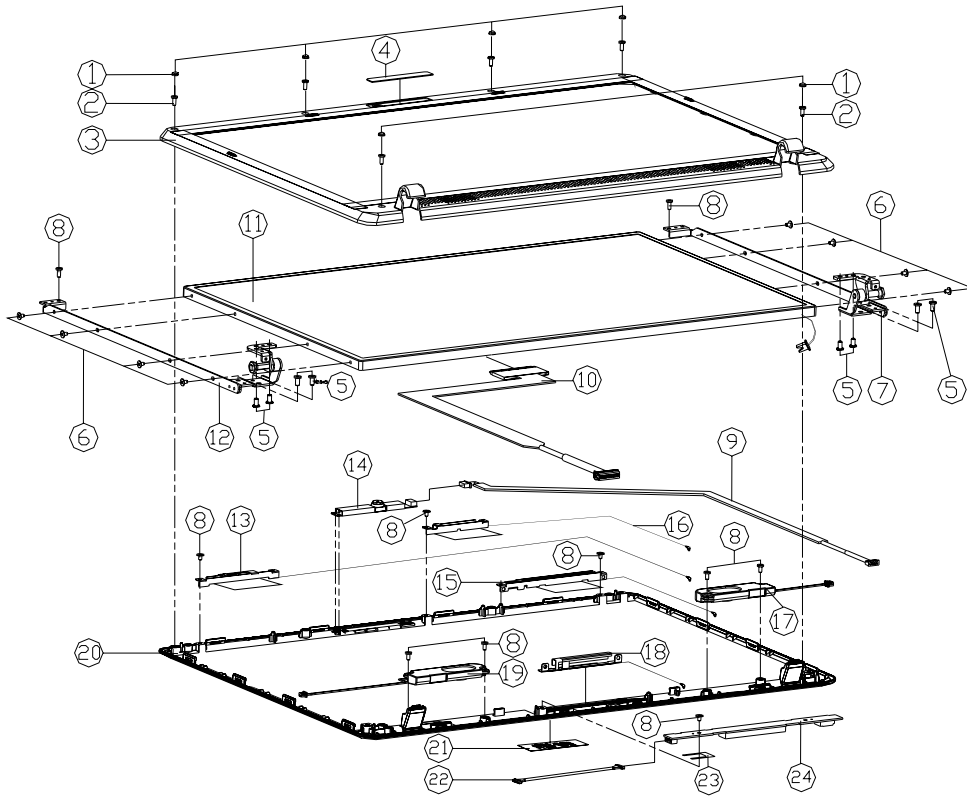


Figure A - 16
Bottom (M760TU)

ITEM	PART NAME	PART NO	REMARK
1	SCREW M2.5x5L KT BK/2 ICT NY-#	6-35-B6125-5RA	
2	HDR BRACKET (DIN45425) FOR M760TU	6-47-M74TS-020	
3	MYLAR S425415T (FR83-3467) M760S	6-40-M76SS-030	
4	CPU SUPPORT BRACKET BUS 430C/D M50N	6-33-M55NS-022	
5	MYLAR D10 FR83 M760S	6-40-M76S0-010	
6	E-STAT (DIN45425) FOR M760TU	6-47-M74TS-010	
7	MAIN BOARD V30B (W/3D) M760TU	6-77-M76T0-003B-U	
8	HEAT SINK MYLAR FOR NEW CARD BOX M760TU	6-47-M76TS-010	
9	HEAT SINK MYLAR FR83 M740S	6-40-M74SN-011	
10	VGA THERMAL MODULE AL M740TU	6-31-M740N-100	
11	SCREW M2x3L KI NI ICT NY	6-35-B1120-3RA	
12	DUMMY NEW CARD PC+ABS T120R	6-42-T12R3-011	
13	NEW CARD MYLAR FR83 M740T	6-40-M74T3-010	
14	W/3D BRACKET FOR NEW CARD BOX M760TU	6-87-M66US-4DE	(OPTION)
14	W/3D BRACKET FOR NEW CARD BOX M760TU	6-87-M66US-454	(OPTION)
14	W/3D BRACKET FOR NEW CARD BOX M760TU	6-87-M66US-4D4	(OPTION)
14	W/3D BRACKET FOR NEW CARD BOX M760TU	6-87-M66US-453	(OPTION)
14	W/3D BRACKET FOR NEW CARD BOX M760TU	6-87-M66US-4P4	(OPTION)
14	W/3D BRACKET FOR NEW CARD BOX M760TU	6-87-M66US-4C3	(OPTION)
15	NORTH BRIDGE HEAT SINK AL M740TU	6-31-M74TN-012	
16	W/3D BRACKET FOR NEW CARD BOX M760TU	6-23-22015-P2C	
17	W/3D BRACKET FOR NEW CARD BOX M760TU	6-88-M55SS-7000	(OPTION)
17	W/3D BRACKET FOR NEW CARD BOX M760TU	6-88-M72T2-4210	(OPTION)
17	W/3D BRACKET FOR NEW CARD BOX M760TU	6-88-M72T2-4240	(OPTION)
17	W/3D BRACKET FOR NEW CARD BOX M760TU	6-88-M72T2-4211	(OPTION)
17	W/3D BRACKET FOR NEW CARD BOX M760TU	6-88-M72T2-4241	(OPTION)
18	W/3D BRACKET FOR NEW CARD BOX M760TU	6-35-B1120-3RD	
19	TOUCH PAD SPONGE (20x40) CR M740S	6-47-0019A-209	
20	W/3D BRACKET FOR NEW CARD BOX M760TU	6-43-M76S0-022	
21	TAPE MYLAR (A) MYLAR M550J	6-40-M55J2-010	
22	DDR RAM MYLAR FR83 M740T	6-40-M74TS-010	
23	W/3D BRACKET FOR NEW CARD BOX M760TU	6-88-M72SW-720	(OPTION)
24	DDR BRIDGE BOARD V30 M760T	6-77-M76TN-003	
25	W/3D BRACKET FOR NEW CARD BOX M760TU	6-88-L3911-5300	(OPTION)
26	MDC MYLAR FR83 M740S	6-40-M74S0-010	
27	MULTI I/O BOARD V30 M740S	6-77-M74SI-003	
28	W/3D BRACKET FOR NEW CARD BOX M760TU	6-43-M76S0-052	
29	PHONE JACK & USB BOARD V30A M740S	6-77-M74SA-003A	
30	W/3D BRACKET FOR NEW CARD BOX M760TU	6-43-M74SA-010	
31	SATA DVD COMBO ASSY (OPTION) M760T	6-79-M76T000-000	(OPTION)
31	SATA DVD COMBO ASSY (OPTION) M760T	6-79-M76T000-000	(OPTION)
32	PRODUCT LABEL FOR M760TU	6-45-M76TU-010	
32	PRODUCT LABEL FOR M760TU	6-45-M76TU03-010	
33	W/O HDD ASS'Y M760S	6-79-M76S00J-010	
33	HDD COVER MODULE (W/O) M760S	6-42-M76SJ-102	
35	W/3D BRACKET FOR NEW CARD BOX M760TU	6-88-M5345-620	(OPTION)
35	W/3D BRACKET FOR NEW CARD BOX M760TU	6-88-M5345-390	(OPTION)
36	SCREW M2x5L KI BK/2 ICT NY	6-35-B6120-6R0	
37	SCREW M2x5L KI BK/2 ICT NY	6-35-B6120-6RE	
38	W/3D BRACKET FOR NEW CARD BOX M760TU	6-43-M76SB-011	(OPTION)
39	BT COVER MODULE (W/O) M760S	6-42-M76SB-101	
40	W/3D BRACKET FOR NEW CARD BOX M760TU	6-47-M76SB-010	
41	W/3D BRACKET FOR NEW CARD BOX M760TU	6-39-M76S3-012	
42	SCREW M2x5L KI BK/2 NY ICT	6-35-B6125-6R0	
43	CPU THERMAL MODULE AL M740T	6-31-M74TS-100	
44	FAN MODULE M740S	6-31-M74SS-101	
45	CPU COVER MODULE M760S	6-42-M76SS-102	

LCD (M760T/M760TU)

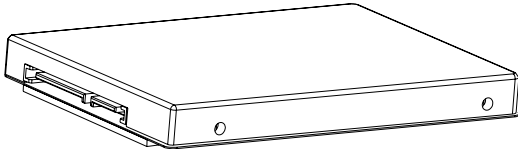
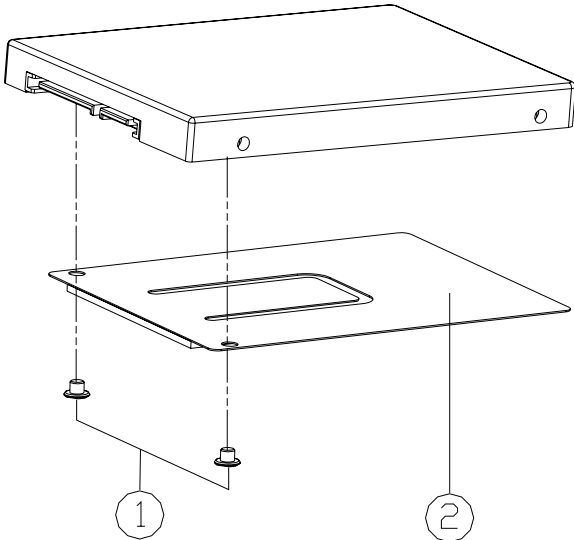


ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER RUBBER GASKET 3-4MM 11.0MM Wx15.0MM Hx15.0MM	6-47-M76S1-010	
2	SCREW NEXOL KIT-188 3-4D BK/Z TCT NY	6-35-B6120-5R0	
3	LCD FRONT COVER MODULE M760S	6-39-M76S1-011	
4	CCD COSMETIC PMMA T-0.5MM M760S	6-42-M76S1-031	W/ CCD
5	W/O CCD COSMETIC 0.5T PMMA M760S	6-42-M76S1-040	W/O CCD
6	SCREW M2.5x5L KT BK/Z TCT NY	6-35-B6125-5RA	
7	SCREW NEXOL KIT-188 3-4D BK/Z TCT NY	6-35-B1120-3RE	
8	LCD HINGE-R SECC M760S	6-33-M76S1-011	
9	SCREW M2.5x5L KT BK/Z TCT NY	6-35-C1120-4RB	
10	WIRE CABLE SPIN W/O TO CCD 3.0MM FOR W760S	6-43-M76S1-021	FOR CCD
11	WIRE CABLE SPIN W/O TO LCD 2.0MM FOR W760S	6-43-M76S1-010	
12	LCD AU RESERVE V1 TSP VISA+ CHANEL	6-50-L7261-G01	(OPTION)
13	LCD TSP VISA+ CHANEL NS421-LR CLARE T	6-50-L7265-D00	(OPTION)
14	LCD TSP VISA+ CHANEL NS421-LR CLARE T	6-50-LA265-D00	(OPTION)
15	LCD TSP VISA+ CHANEL NS421-LR CLARE T	6-50-LC264-G00	(OPTION)
16	LCD TSP VISA+ CHANEL NS421-LR CLARE T	6-50-LC261-G00	(OPTION)
17	LCD TSP VISA+ CHANEL NS421-LR CLARE T	6-50-LC263-G00	(OPTION)
18	LCD TSP VISA+ CHANEL NS421-LR CLARE T	6-50-LC265-D00	(OPTION)
19	LCD HINGE-L SECC M760S	6-33-M76S1-021	
20	ANTENNA VELA 24G/3.5G PPA W/ GLASS	6-23-7M76S-010	
21	WIRE CABLE SPIN W/O TO LCD 2.0MM FOR W760S	6-43-M76S1-010	FOR W760S/T
22	WIRE CABLE SPIN W/O TO LCD 2.0MM FOR W760S	6-43-M76S1-010	FOR W760S/T
23	WIRE CABLE SPIN W/O TO LCD 2.0MM FOR W760S	6-43-M76S1-010	FOR W760S/T
24	WIRE CABLE SPIN W/O TO LCD 2.0MM FOR W760S	6-43-M76S1-010	FOR W760S/T

Figure A - 17
LCD (M760T/
M760TU)

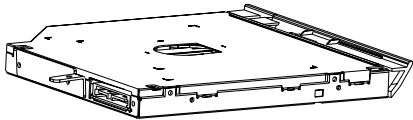
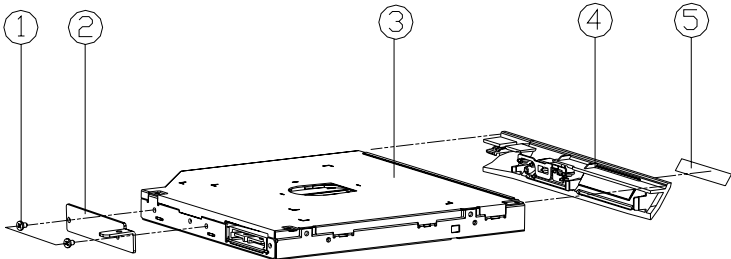
HDD (M760T/M760TU)

Figure A - 18
HDD
(M760T/M760TU)



ITEM	PART	NAME	PART	NO	REMARK
1	SCREW	M3*2.5L KI NI ICT NY 無鉛	6-35-B1130-2RS		
2	HDD	MYLAR MODULE M760S (HDD)	6-40-M76SJ-100		

COMBO (M760T/M760TU)



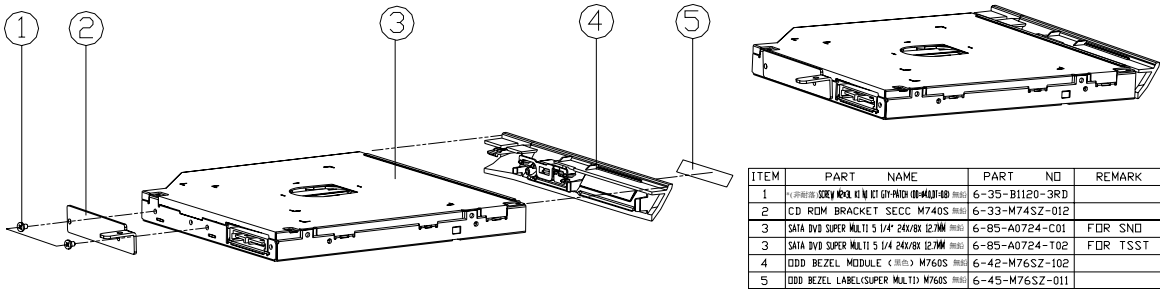
ITEM	PART NAME	PART NO	REMARK
1	SCREW M2X0.5 KI NI ICT GY-PATCH	6-35-B1120-3RE	
2	CD ROM BRACKET SECC M740S	6-33-M74SZ-012	
3	SATA DVD COMBO 5 1/4 24X/8X 12.7MM CDRW	6-85-90724-C01	
3	SATA DVD COMBO 5 1/4 24X/8X 12.7MM TSST T	6-85-90724-T01	
4	ODD BEZEL MODULE (M760S)	6-42-M76SZ-102	
5	ODD BEZEL LABEL (COMBO) FOR M760S	6-45-M76SX-011	

Figure A - 19
COMBO
(M760T/M760TU)

Part Lists

DVD-Dual Drive (M760T/M760TU)

Figure A - 20
DVD-Dual Drive
(M760T/M760TU)



Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the *M740T/M740TU/M740TU-F2/M760T/M760TU* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

Table B - 1
**Schematic
Diagrams**

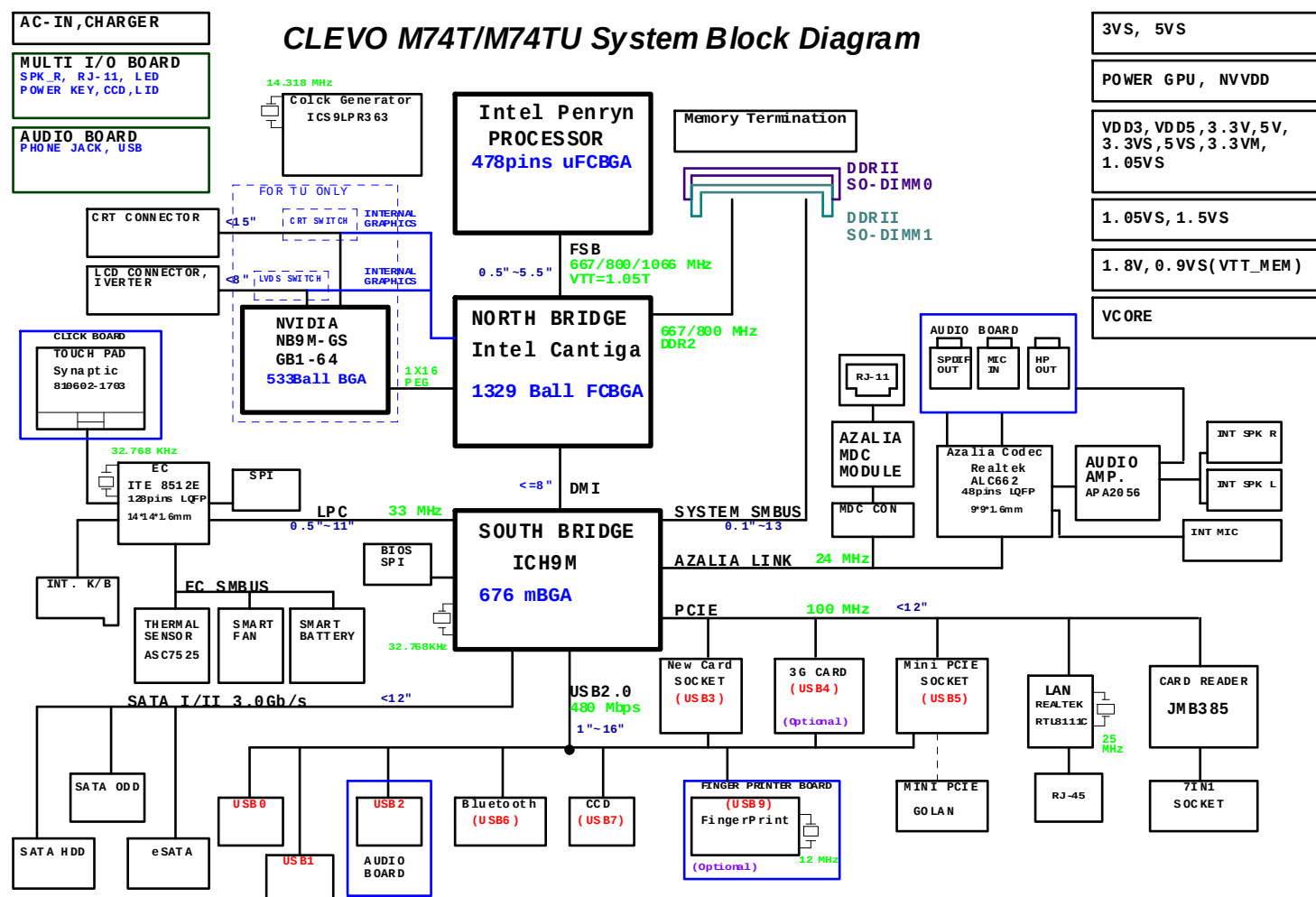
Diagram - Page	Diagram - Page	Diagram - Page
<i>System Block Diagram - Page B - 2</i>	<i>VGA NB9M-4 - Page B - 19</i>	<i>5VS, 3VS, 3.3VM, 1.05VS, VIN1 - Page B - 36</i>
<i>Clock Generator - Page B - 3</i>	<i>VGA NB9M-5 - Page B - 20</i>	<i>Power 3.3V/5V - Page B - 37</i>
<i>Penryn (Socket-P) CPU 1/2 - Page B - 4</i>	<i>VGA NB9M-6 - Page B - 21</i>	<i>Power 1.5VS/1.05VS - Page B - 38</i>
<i>Penryn (Socket-P) CPU 2/2 - Page B - 5</i>	<i>VGA NB9M-7 - Page B - 22</i>	<i>Power 1.8V/0.9V - Page B - 39</i>
<i>CANTIGA 1/7, Host - Page B - 6</i>	<i>ICH9M 1/4, SATA - Page B - 23</i>	<i>Power GPU/NVDD - Page B - 40</i>
<i>CANTIGA 2/7, Graphics - Page B - 7</i>	<i>ICH9M 2/4, PCI, USB - Page B - 24</i>	<i>AC-IN, Charger - Page B - 41</i>
<i>CANTIGA 3/7 - Page B - 8</i>	<i>ICH9M 3/4 - Page B - 25</i>	<i>VCORE - Page B - 42</i>
<i>CANTIGA 4/7 - Page B - 9</i>	<i>ICH9M 4/4 - Page B - 26</i>	<i>NVDD - Page B - 43</i>
<i>CANTIGA 5/7 - Page B - 10</i>	<i>New Card, Mini PCIE - Page B - 27</i>	<i>HDMI - Page B - 44</i>
<i>CANTIGA 6/7 - Page B - 11</i>	<i>3G, Powergood - Page B - 28</i>	<i>External ODD Board for M76 - Page B - 45</i>
<i>CANTIGA 7/7 - Page B - 12</i>	<i>USB, Fan, TP, FP, Multi CON - Page B - 29</i>	<i>Click & Finger Board for M76 - Page B - 46</i>
<i>DDRII SO-DIMM - 0 - Page B - 13</i>	<i>Card Reader - Page B - 30</i>	<i>Multi Function Board - Page B - 47</i>
<i>DDRII SO-DIMM - 1 - Page B - 14</i>	<i>SATA ODD, LED, Hotkey, LID SW - Page B - 31</i>	<i>Audio Board - Page B - 48</i>
<i>Panel, Inverter, CRT - Page B - 15</i>	<i>PCI-E LAN RTL8111C - Page B - 32</i>	<i>Finger Sensor Board for M76 - Page B - 49</i>
<i>VGA NB9M-1 - Page B - 16</i>	<i>Audio Codec ALC662 - Page B - 33</i>	<i>Power Switch Board for M74 - Page B - 50</i>
<i>VGA NB9M-2 - Page B - 17</i>	<i>Audio AMP - Page B - 34</i>	<i>FingerPrint Board for M74 - Page B - 51</i>
<i>VGA NB9M-3 - Page B - 18</i>	<i>KBC-ITE IT8512E - Page B - 35</i>	<i>Power Switch Board for M76 - Page B - 52</i>



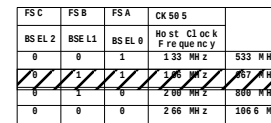
Version Note

The schematic diagrams in this chapter are based upon version 6-7P-M74T9-004. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

Sheet 1 of 51
System Block
Diagram

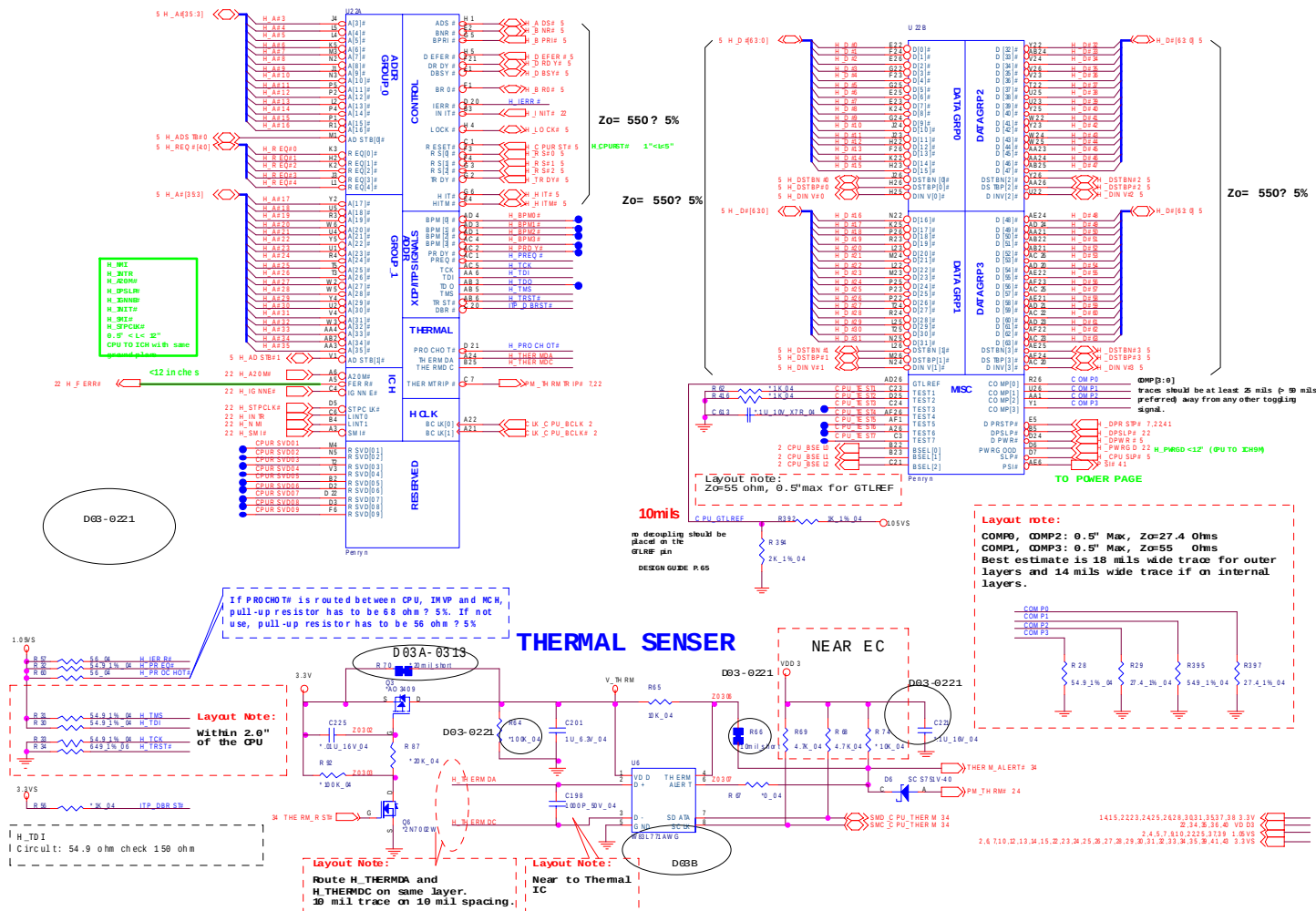


Clock Generator B - 3

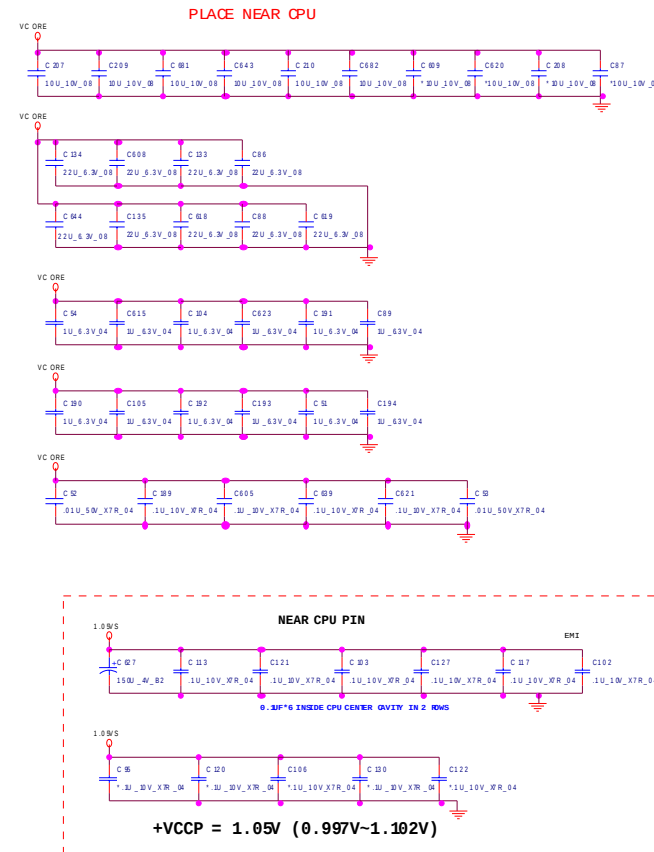


B.Schematic Diagrams

B - 4 Penryn (Socket-P) CPU 1/2

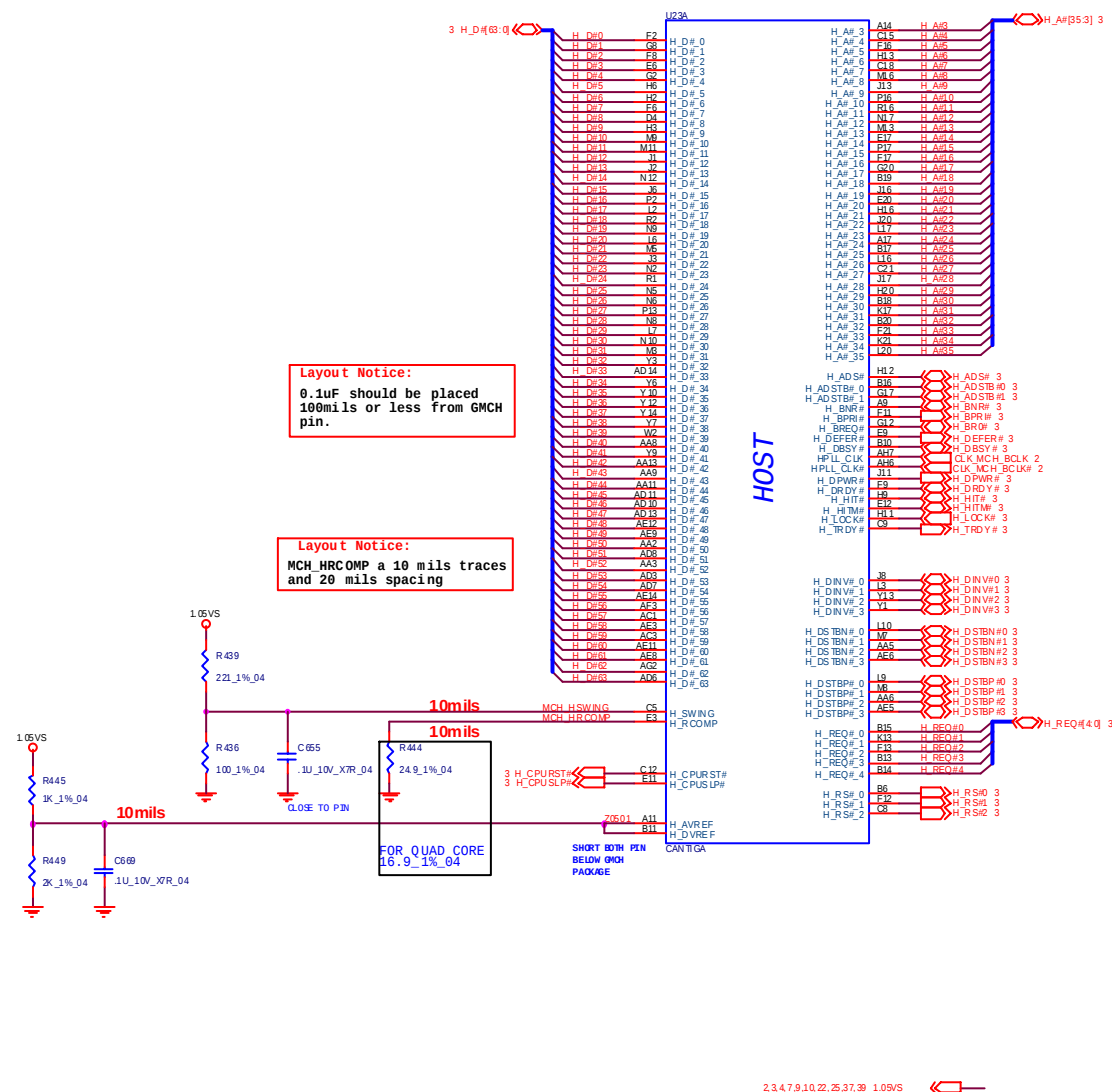


Sheet 4 of 51
Penryn (Socket-P)
CPU 2/2



10,22,23,25,26,27,32,35 1.5VS
2,3,5,7,9,10,22,25,37,39 1.09VS
41 VC OR E

Sheet 5 of 51
CANTIGA 1/7, Host

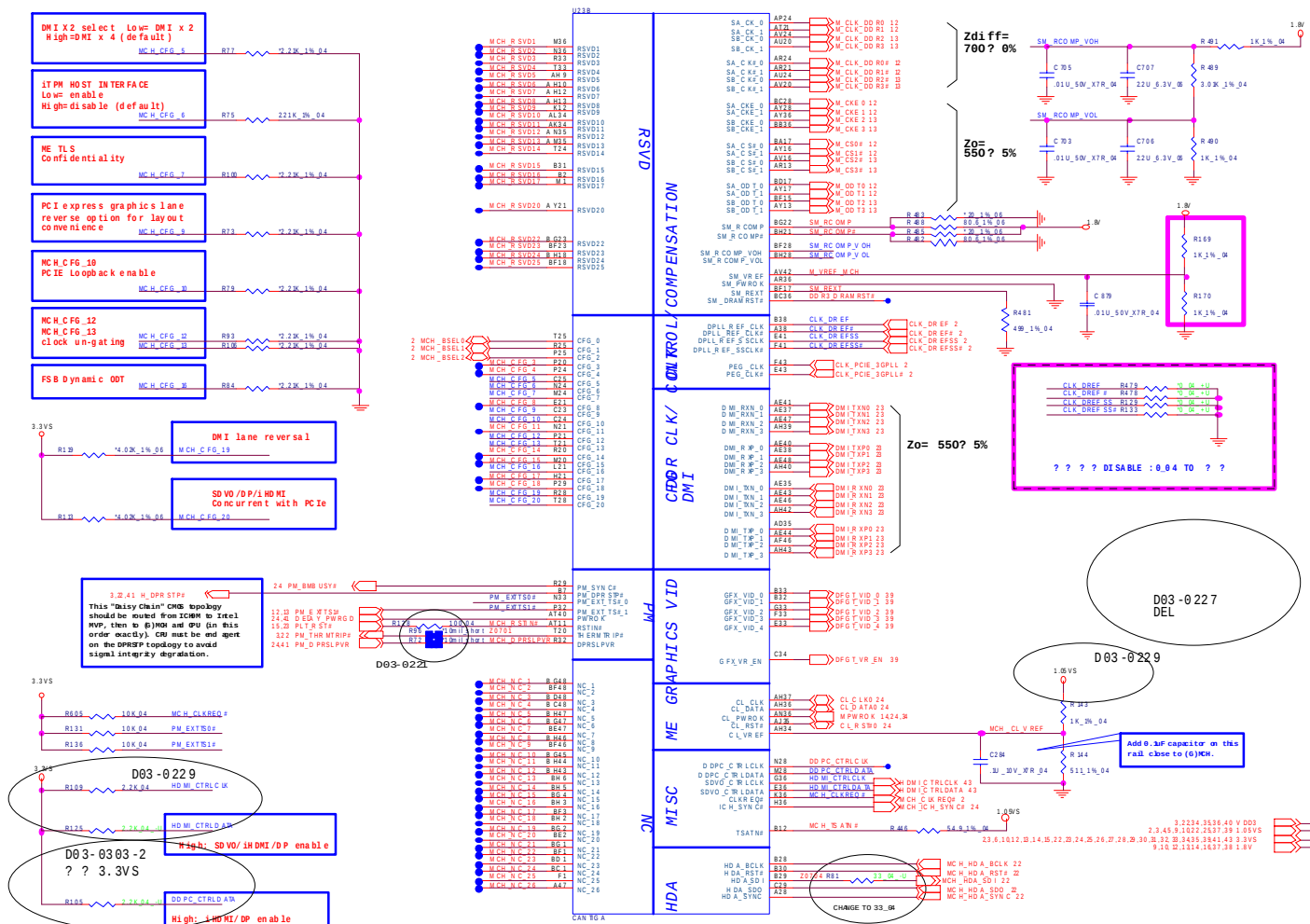


Sheet 6 of 51
CANTIGA 2/7,
Graphics

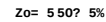


CANTIGA 3/7

Sheet 7 of 51
CANTIGA 3/7



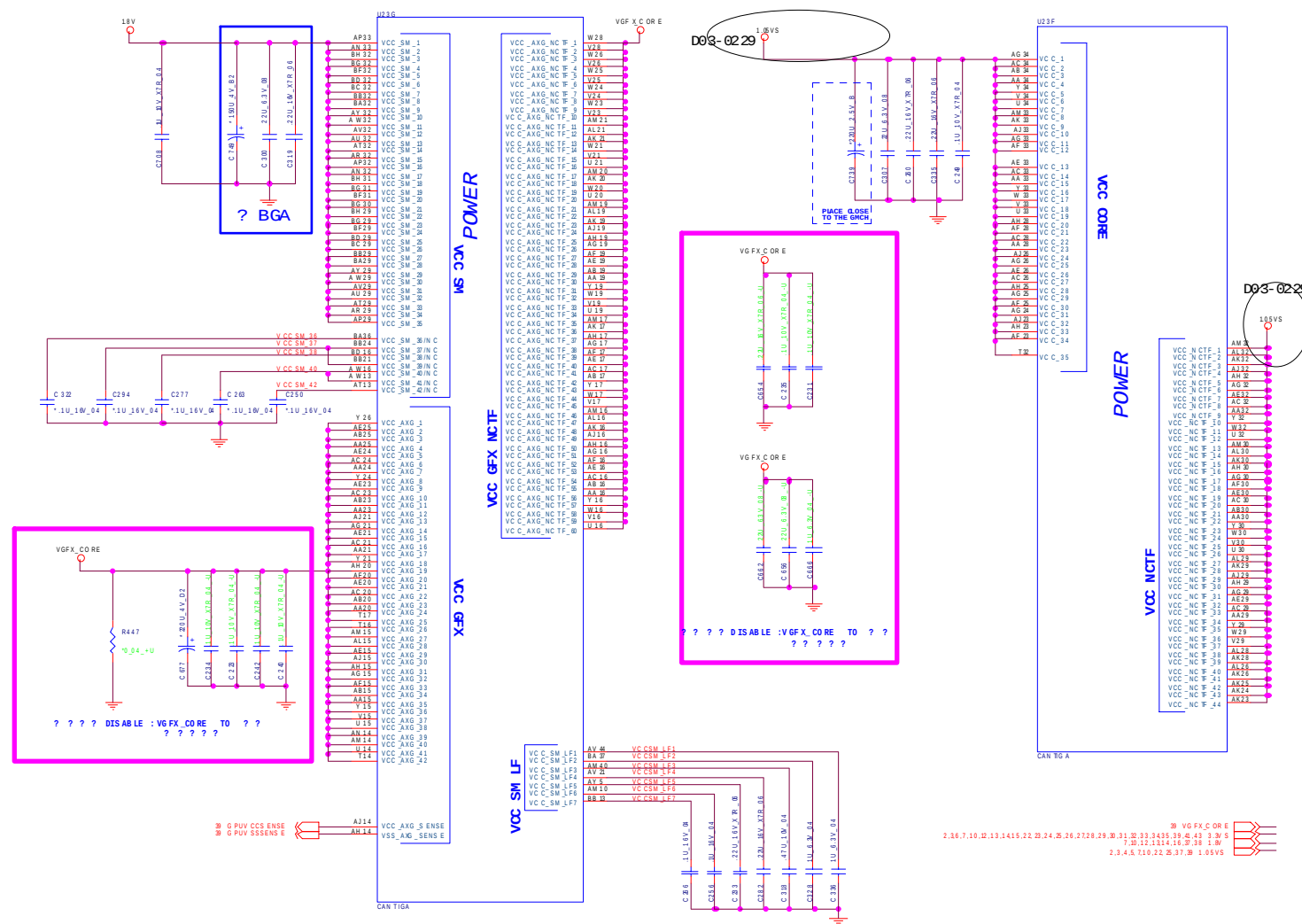
B.Schematic Diagrams



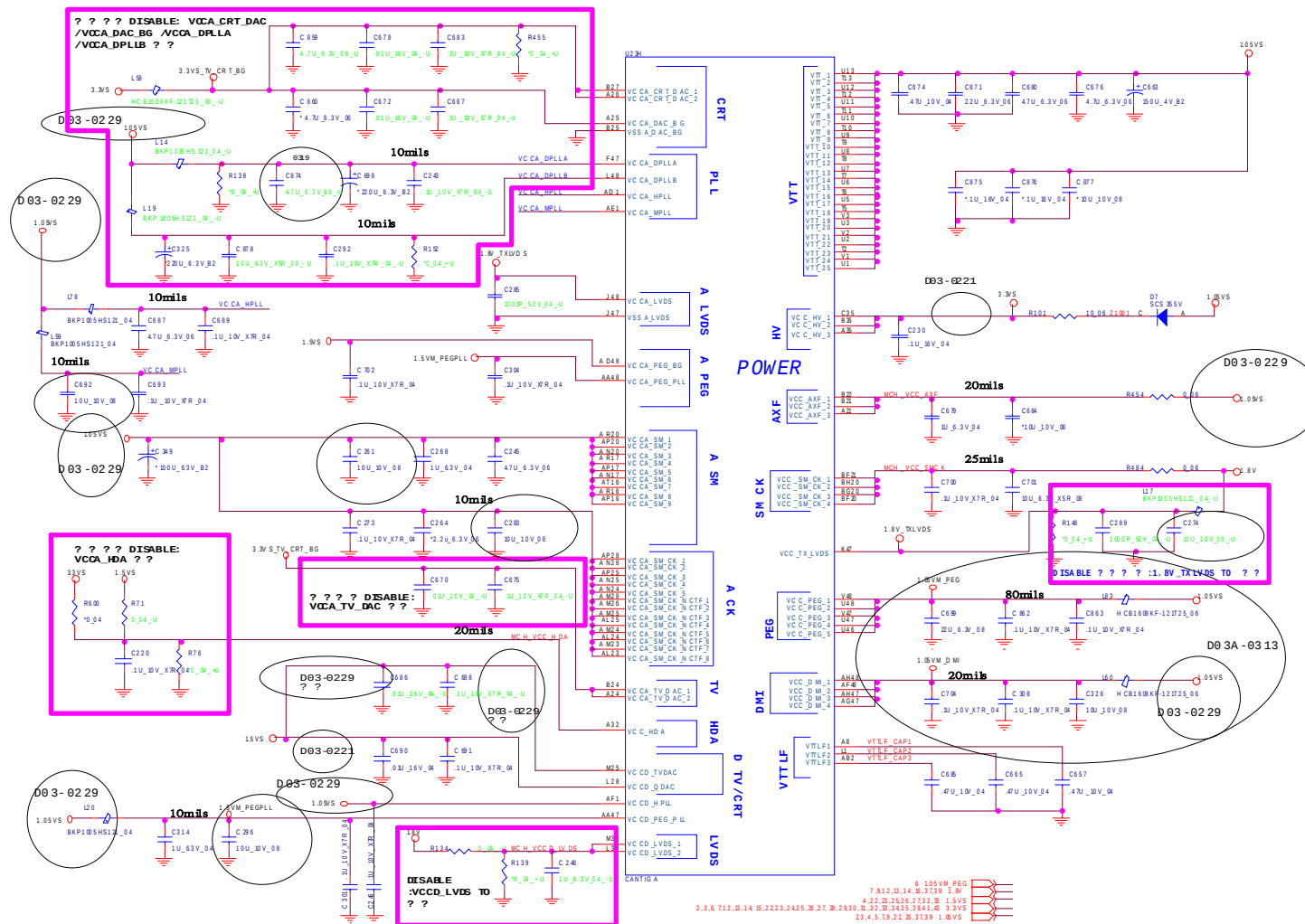
Sheet 8 of 51
CANTIGA 4/7

CANTIGA 5/7

Sheet 9 of 51
CANTIGA 5/7



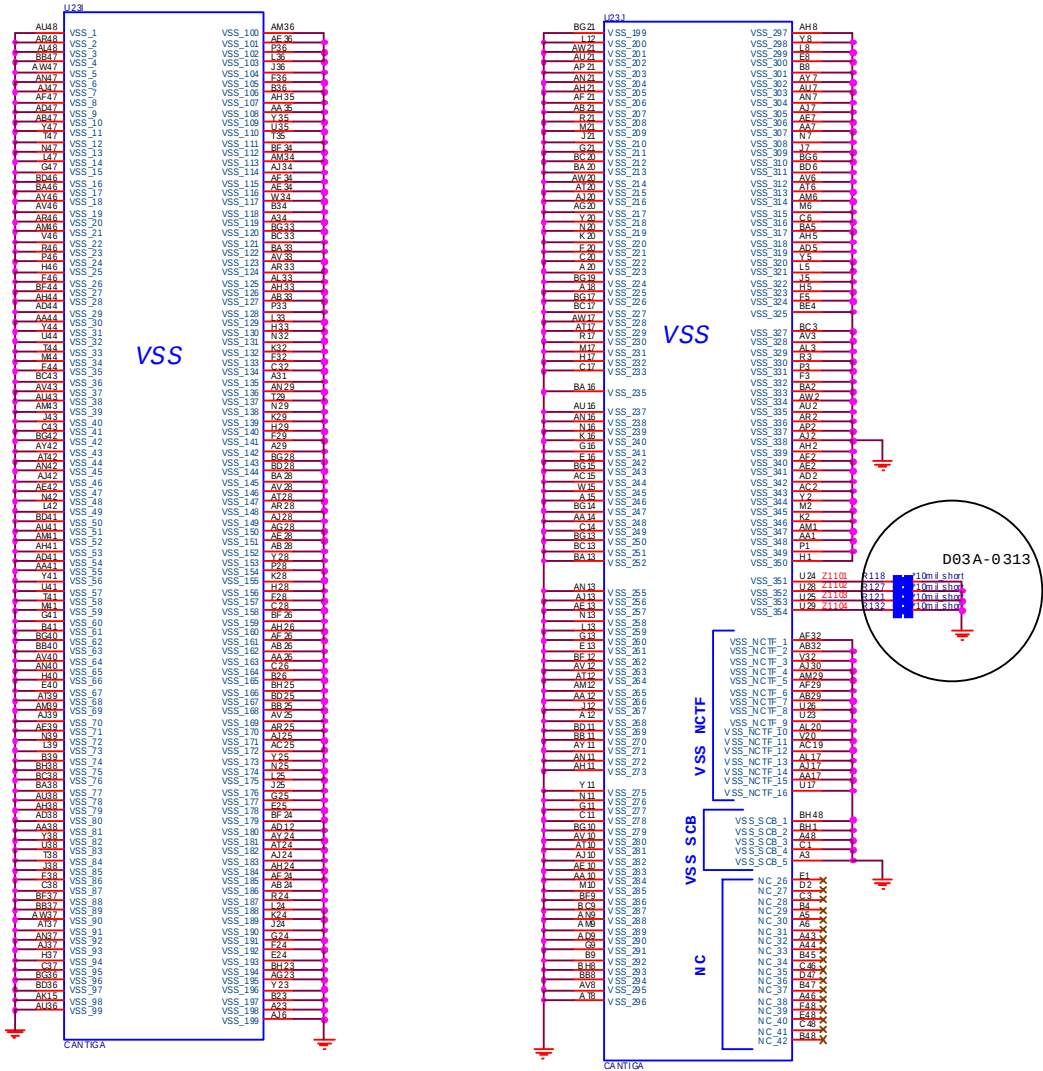
CANTIGA 6/7 B - 11



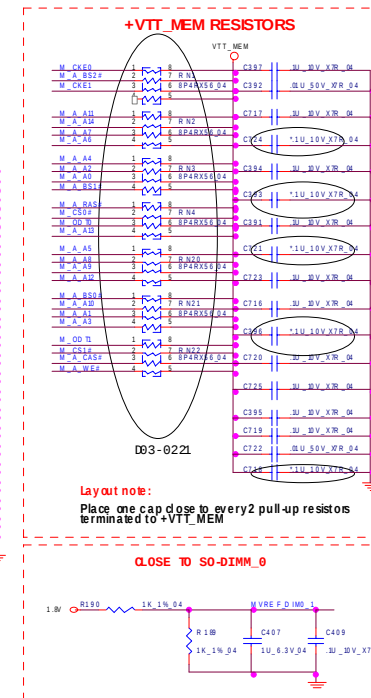
Schematic Diagrams

CANTIGA 7/7

Sheet 11 of 51
CANTIGA 7/7



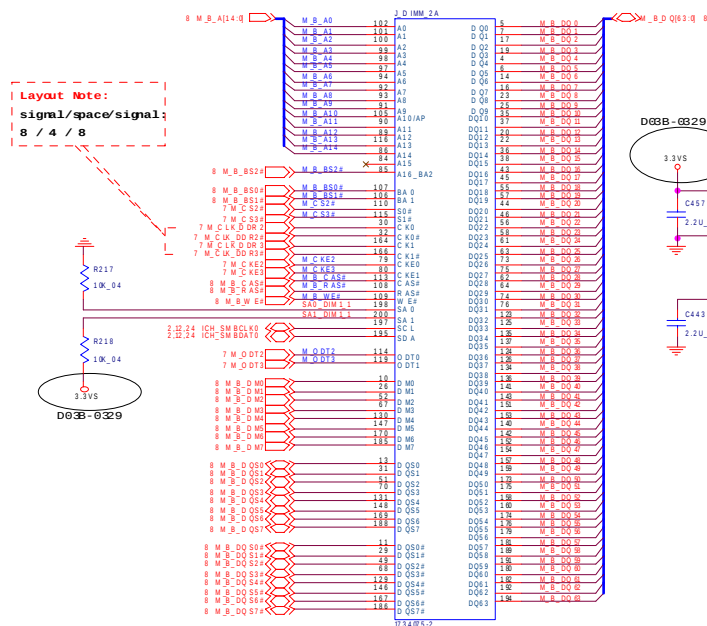
SO-DIMM 0



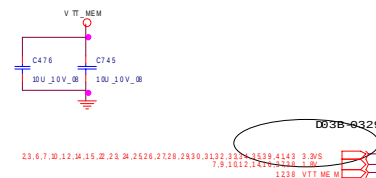
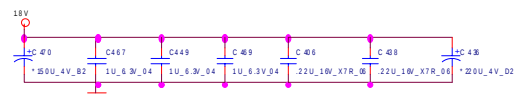
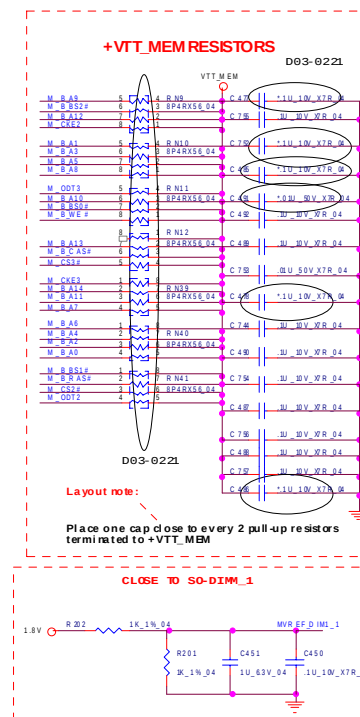
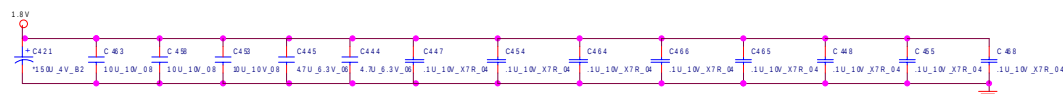
Sheet 12 of 51
DDRII SO-DIMM - 0

DDRII SO-DIMM - 1

SO-DIMM 1



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

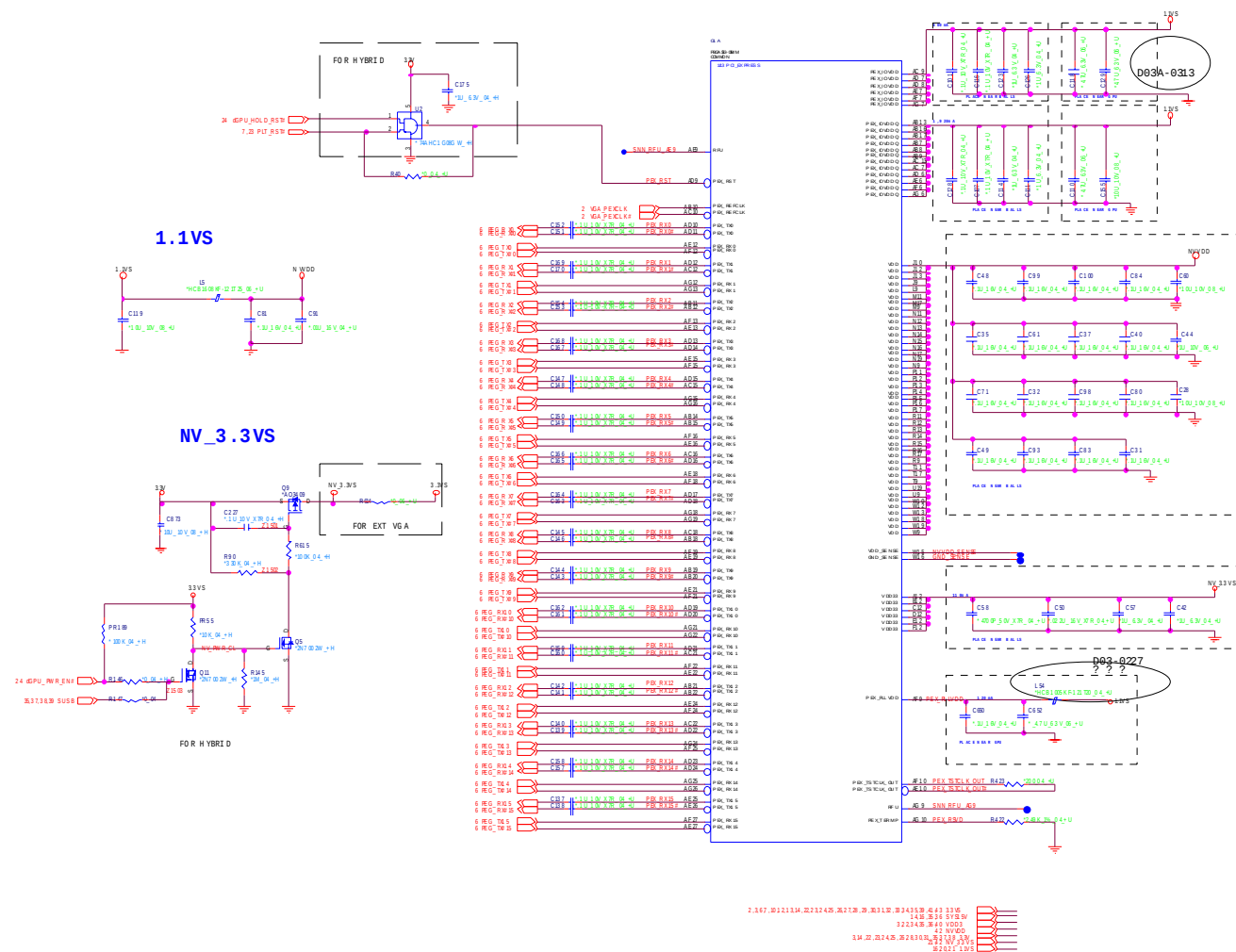


Schematic Diagrams

VGA NB9M-1

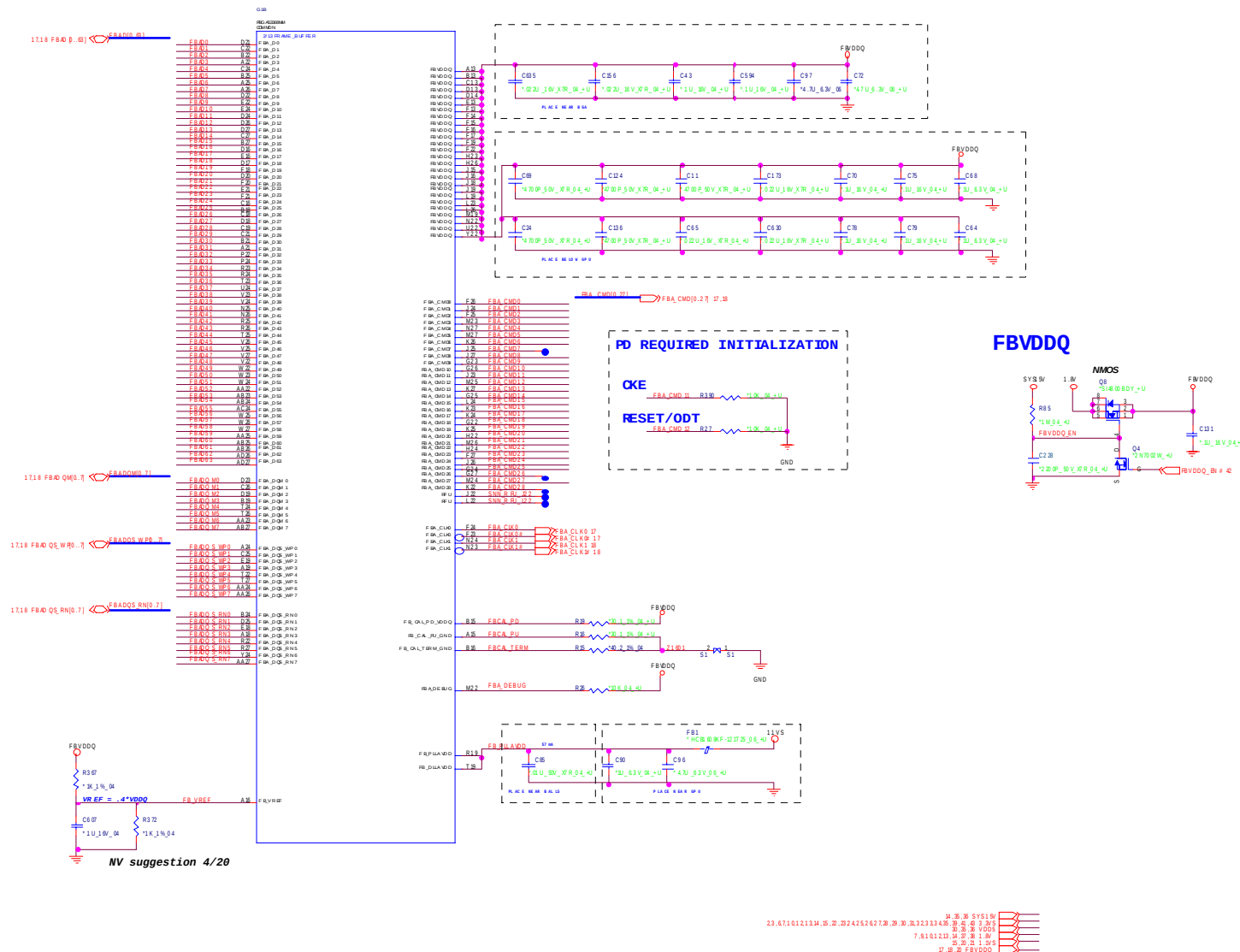
B.Schematic Diagrams

Sheet 15 of 51
VGA NB9M-1



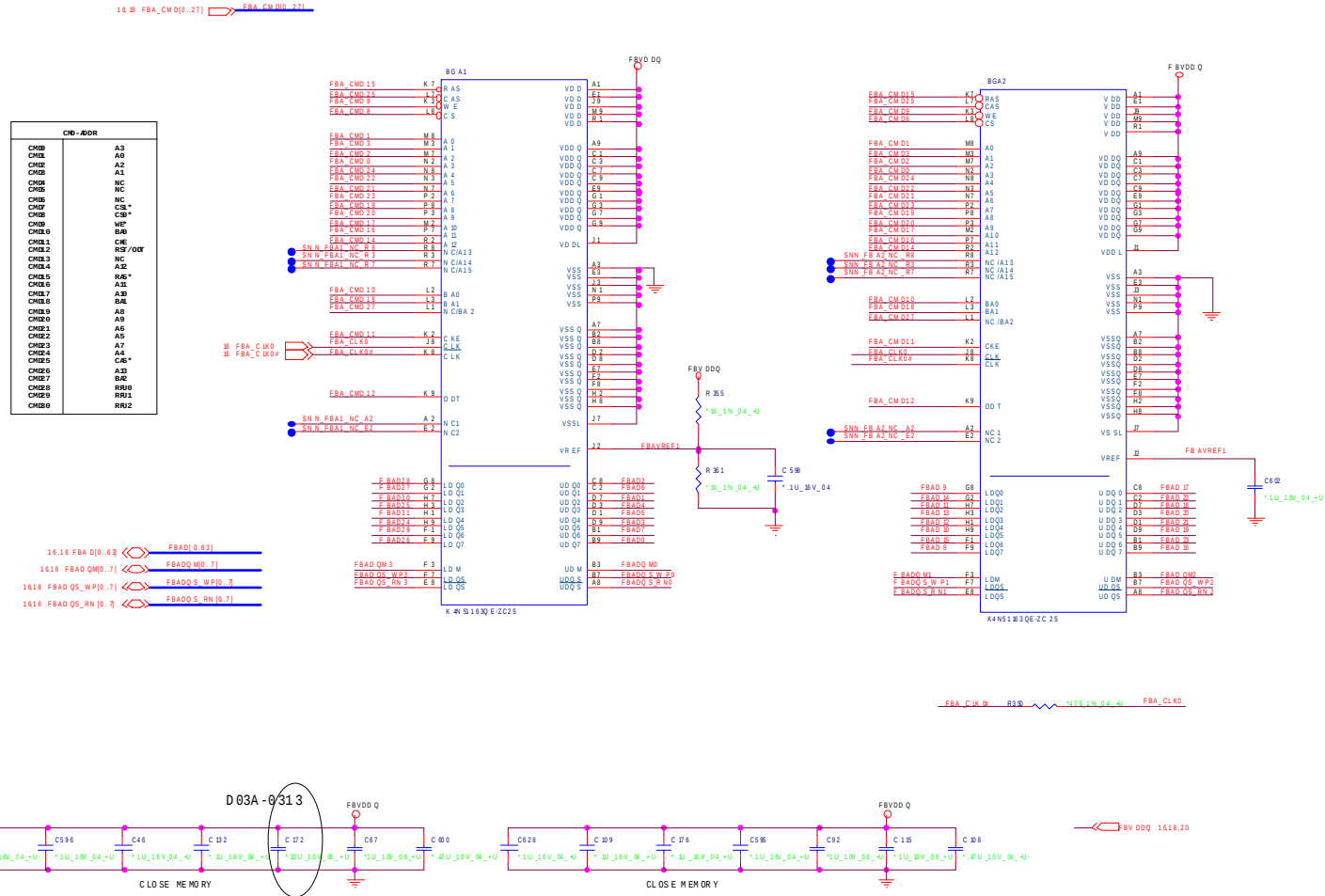
VGA NB9M-2 B - 17

B.Schematic Diagrams



VGA NB9M-3

Sheet 17 of 51
VGA NB9M-3



VGA NB9M-4 B - 19

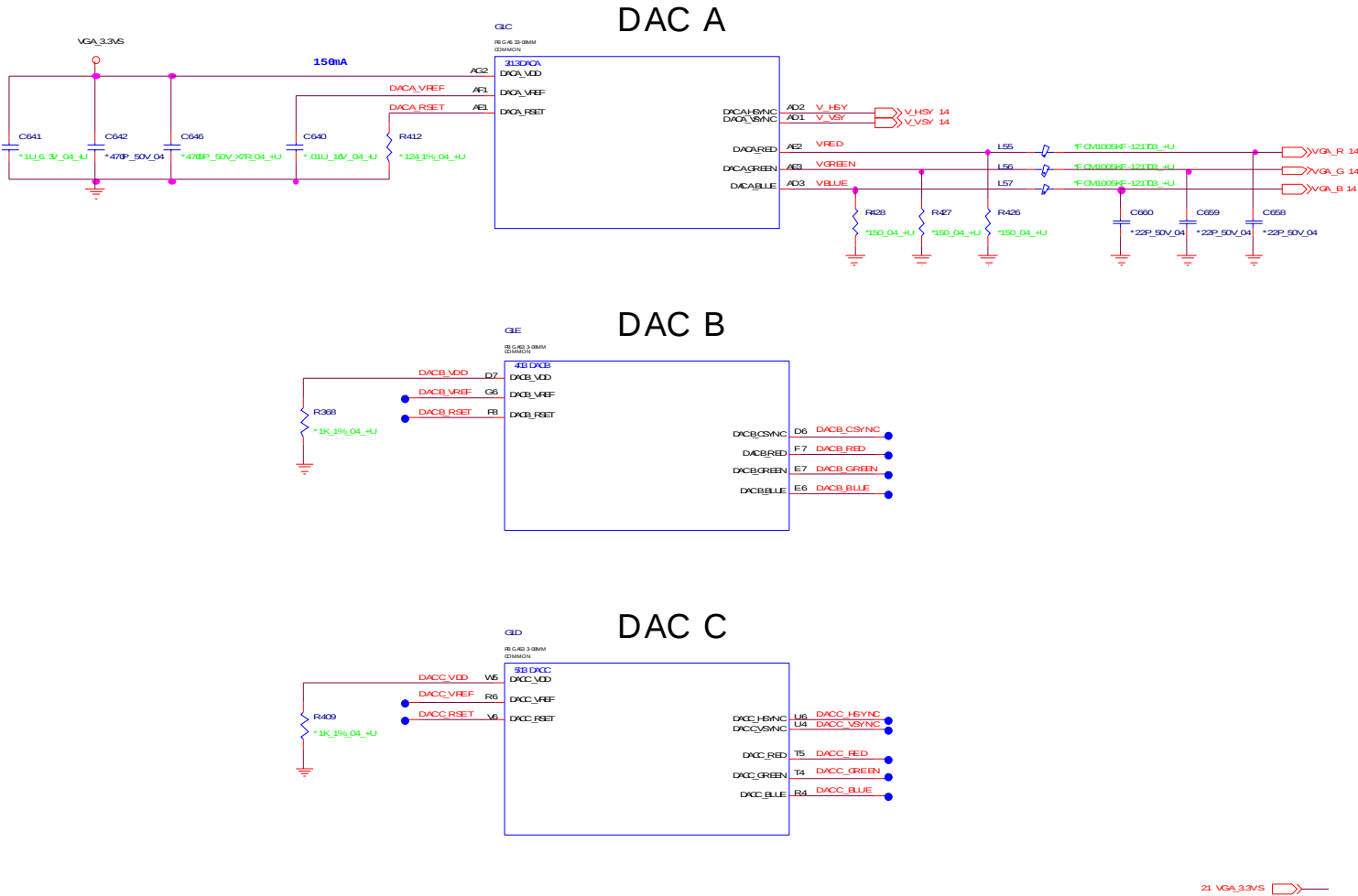
B.Schematic Diagrams



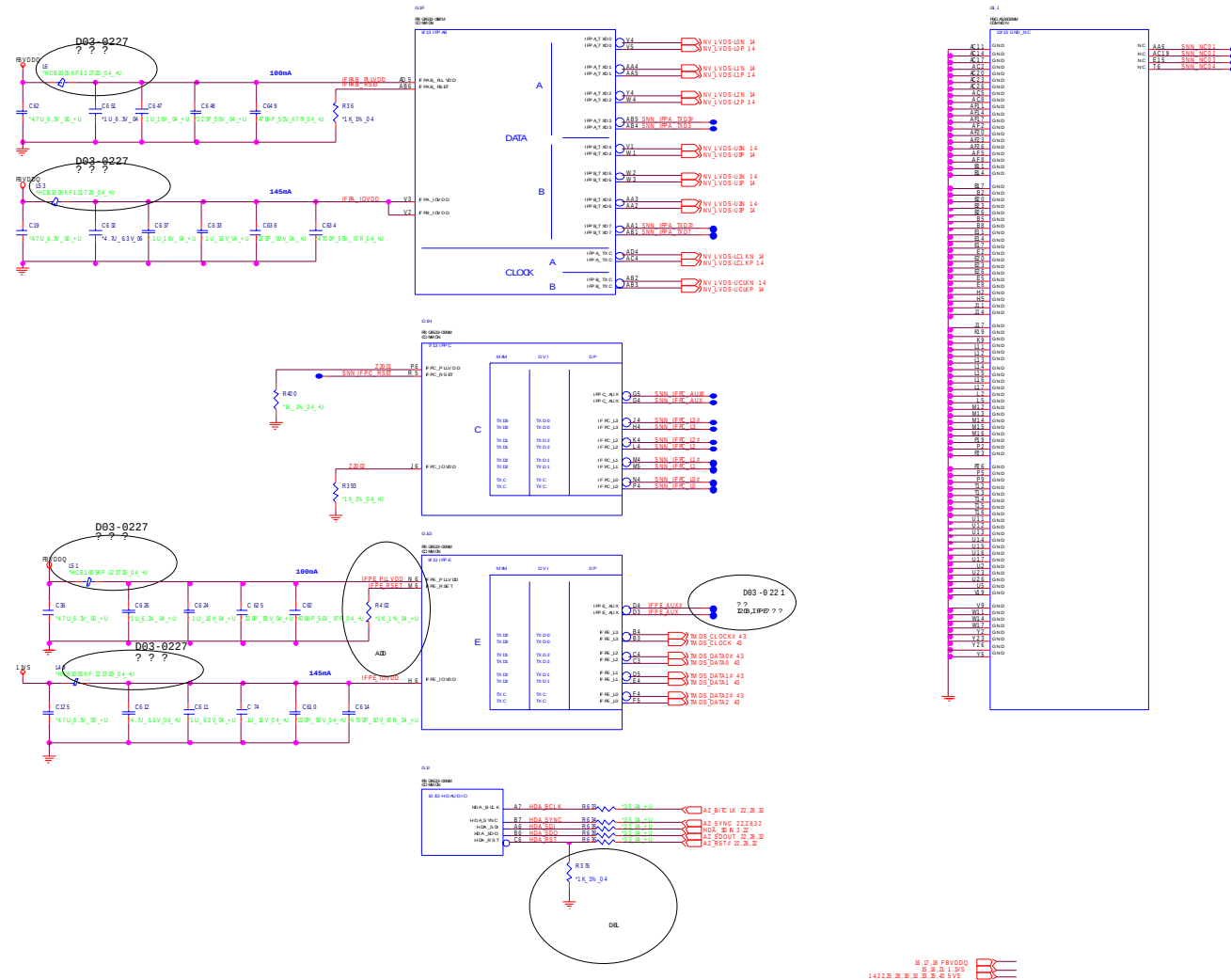
Schematic Diagrams

VGA NB9M-5

Sheet 19 of 51
VGA NB9M-5



VGA NB9M-6

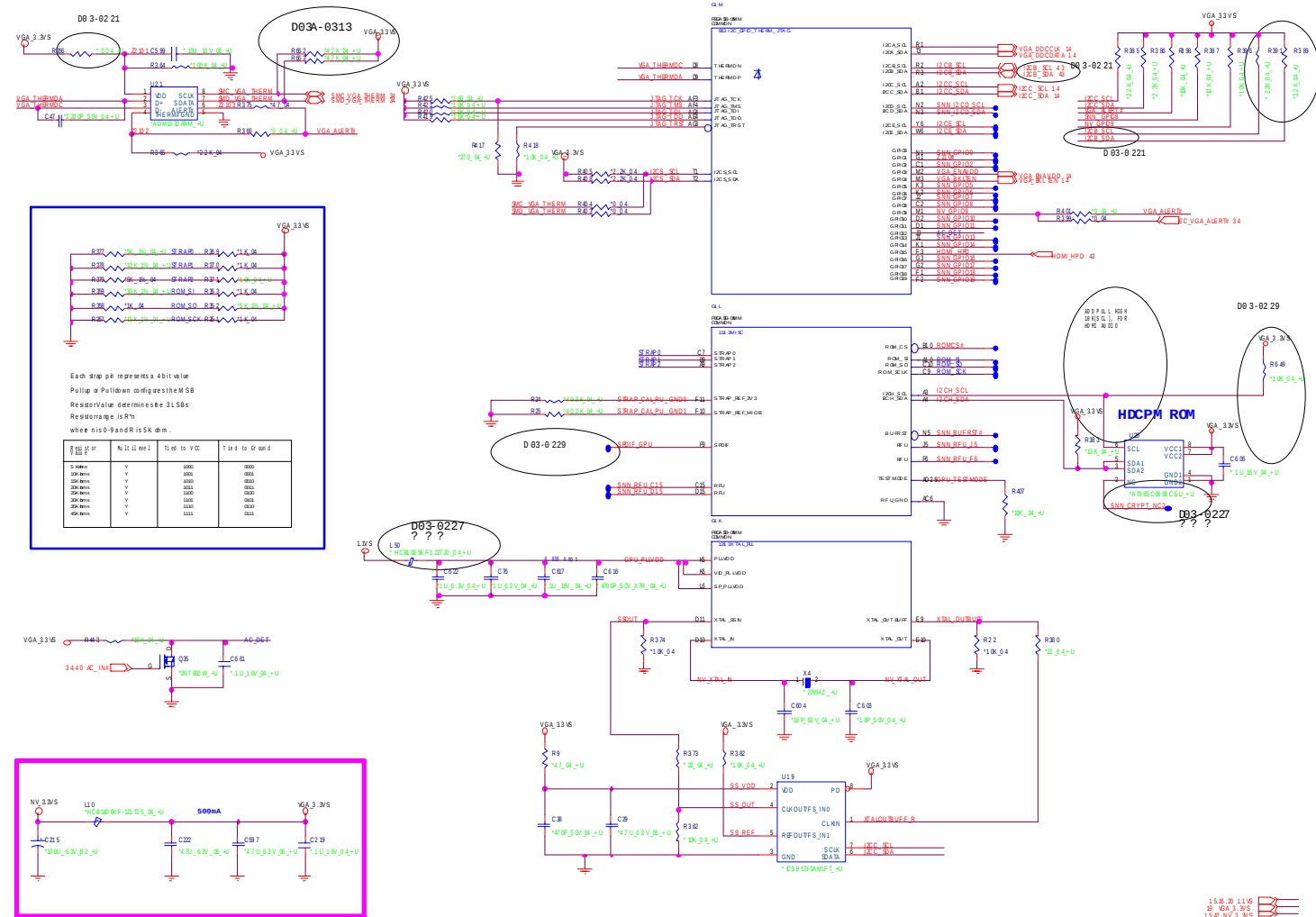


Sheet 20 of 51
VGA NB9M-6

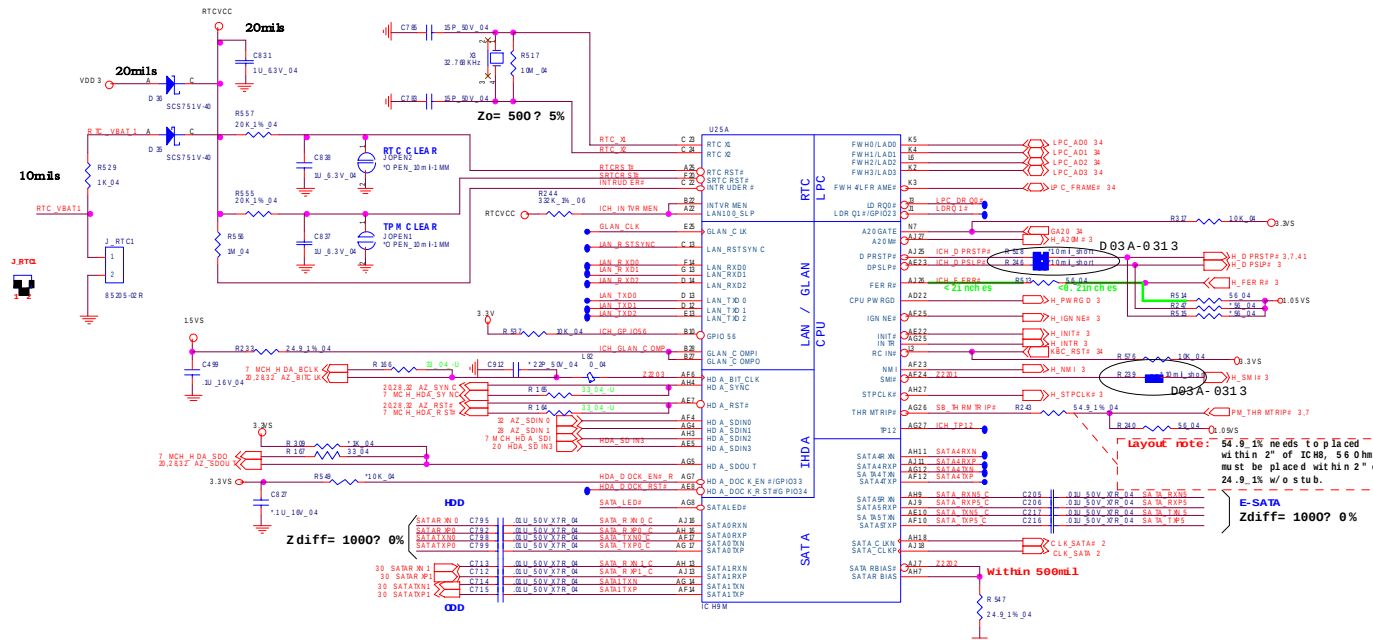
Schematic Diagrams

VGA NB9M-7

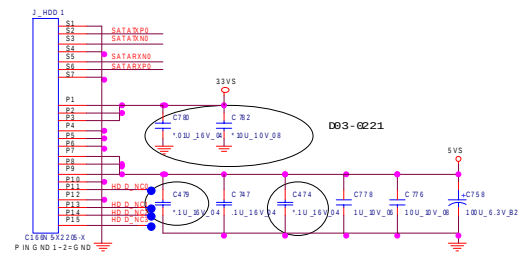
Sheet 21 of 51
VGA NB9M-7



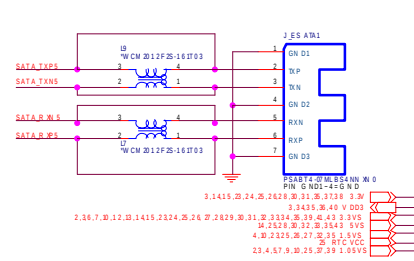
ICH9M 1/4, SATA

Sheet 22 of 51
ICH9M 1/4, SATA

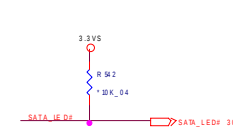
SATA HDD



e SATA



SATA HDD & ODD LED



B.Schematic Diagrams

Sheet 23 of 51
ICH9M 2/4,
PCI, USB



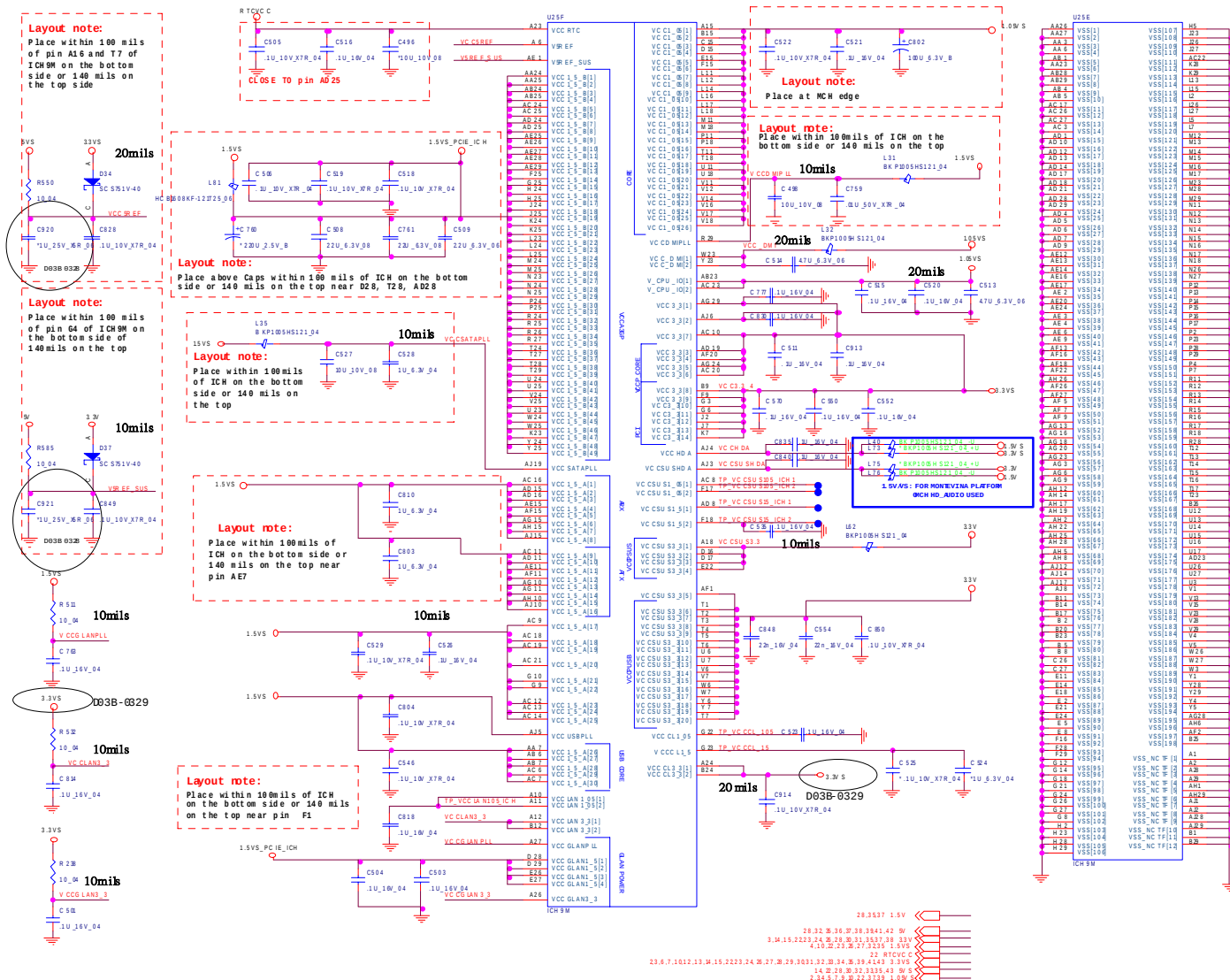
POWER OK

D03A-0313

ICH9M 4/4

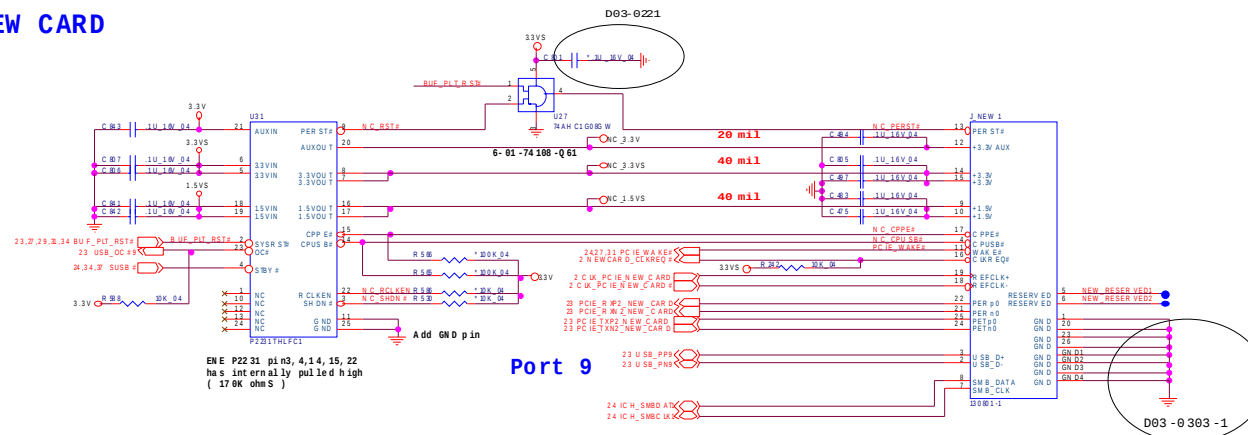
B.Schematic Diagrams

Sheet 25 of 51
ICH9M 4/4

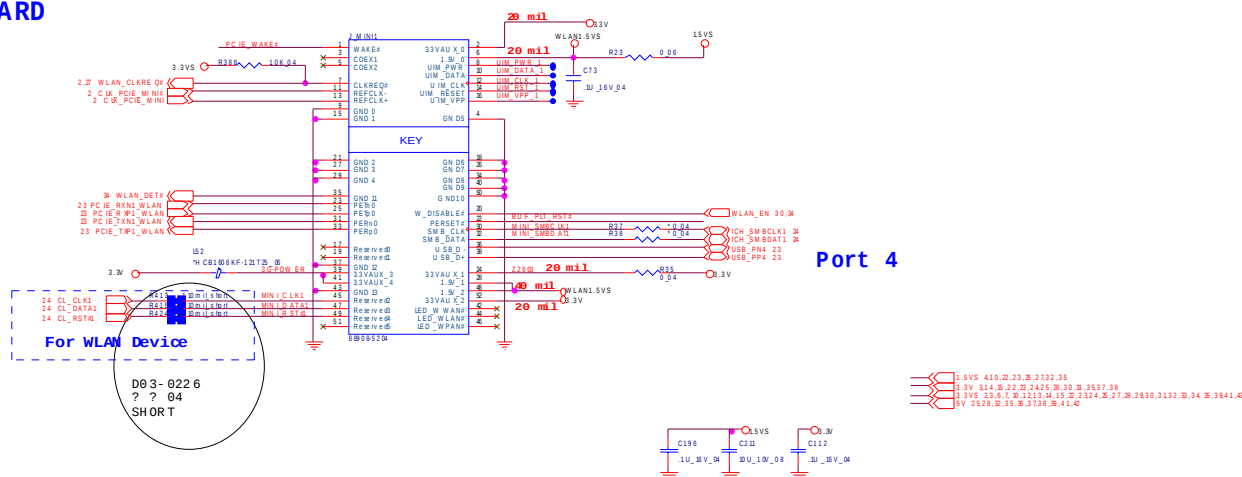


New Card, Mini PCIE

NEW CARD



MINI CARD



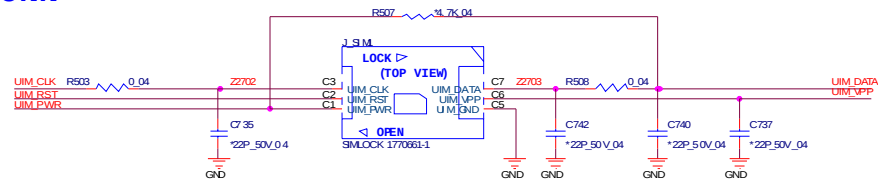
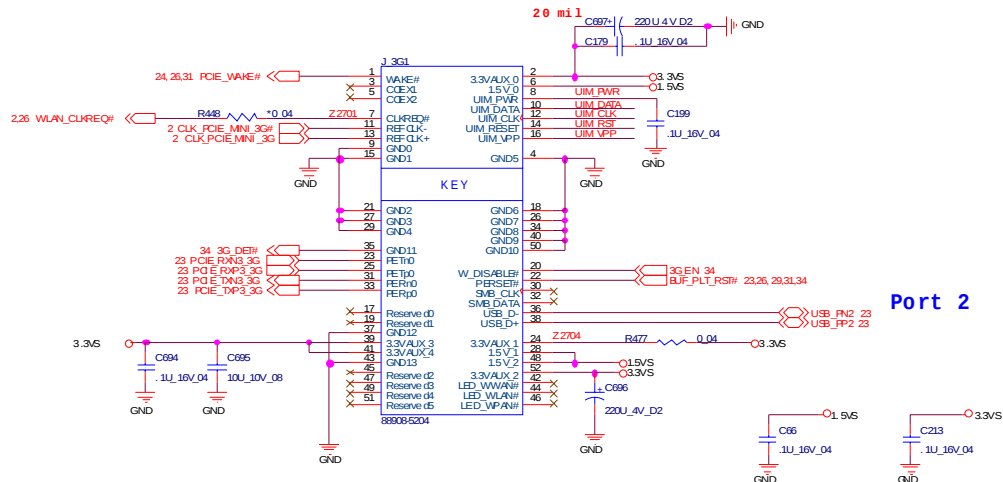
Schematic Diagrams

3G, Powergood

3G

Sheet 27 of 51
3G, Powergood

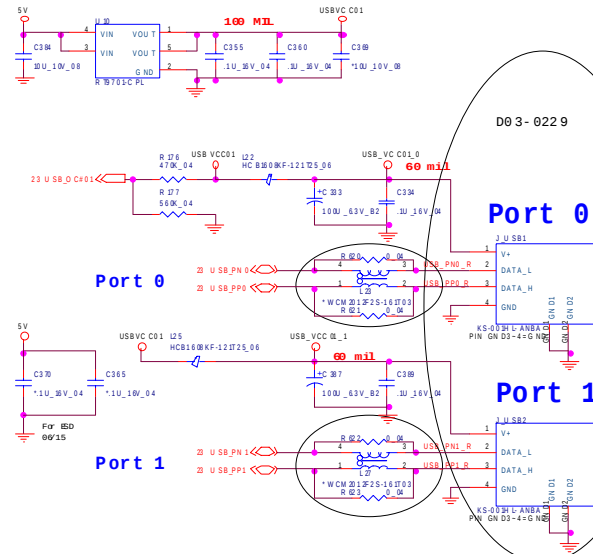
SIM CONN



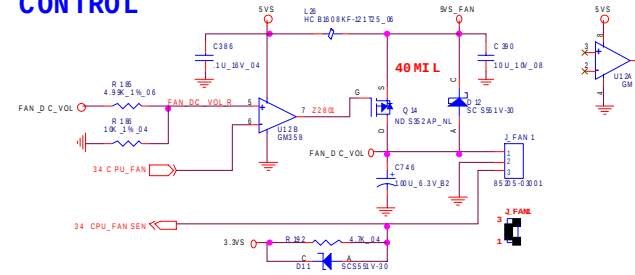
1.5V/5 4, 10, 22, 23, 25, 26, 32, 35
3.3V 3, 14, 15, 22, 23, 24, 25, 26, 29, 30, 31, 35, 37, 39
3.3V/5 2, 3, 6, 7, 10, 12, 13, 14, 15, 22, 23, 24, 25, 26, 28, 29, 30, 31, 32, 33, 34, 35, 39, 41, 43
5V/5 14, 22, 25, 28, 30, 32, 33, 35, 43

USB, Fan, TP, FP, Multi CON

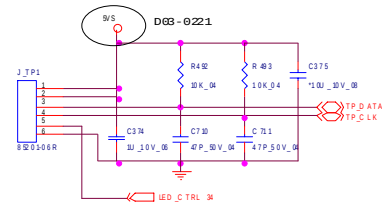
USB PORT*2



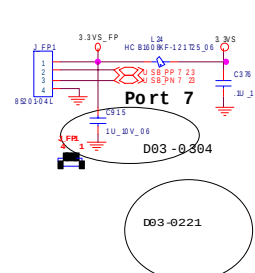
FAN CONTROL



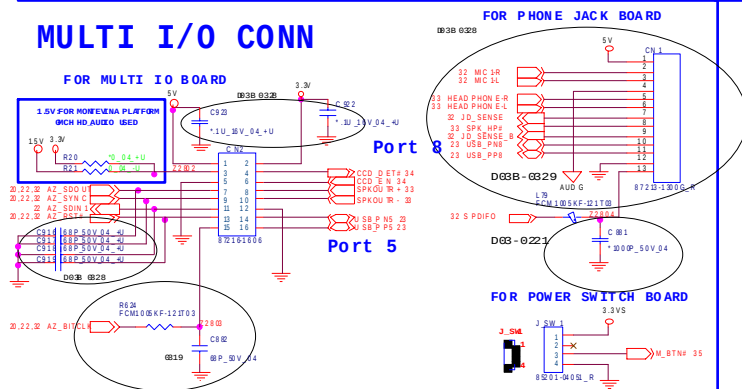
CLICK CONN FOR M760T



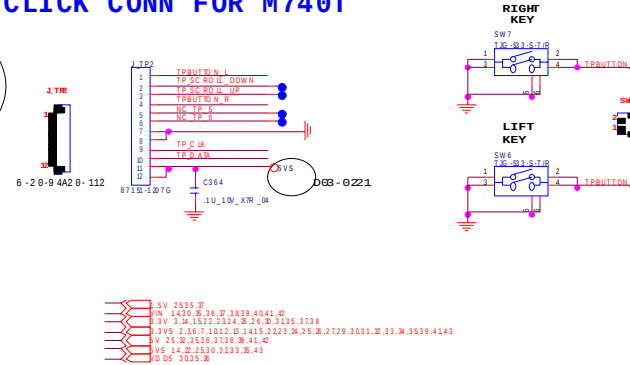
FP CONN



MULTI I/O CONN



CLICK CONN FOR M740T



Sheet 28 of 51
USB, Fan, TP, FP,
Multi CON

3.3VS

RS59 4.7K 0.4

SD C C DP

RS58 20K 0.4

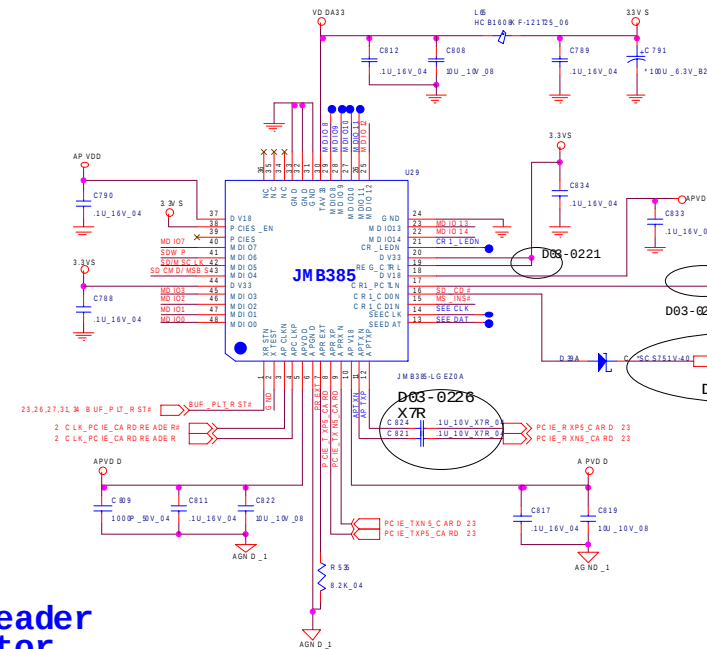
MS IN S0

VC C C ARD

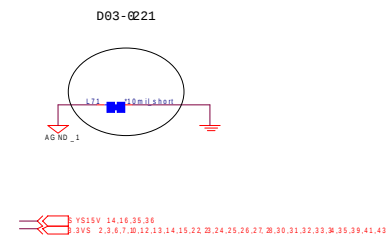
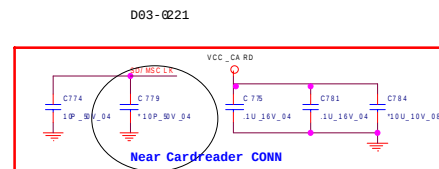
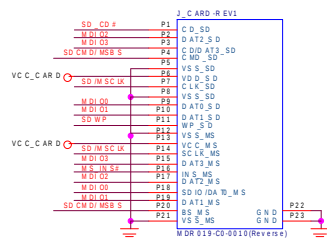
SD WP RS24 10K 0.4

MPIO13 RS62 10K 0.4

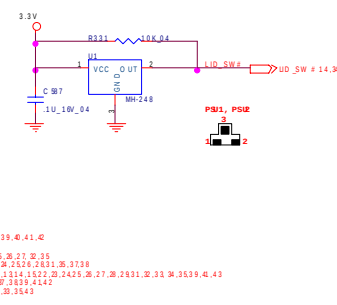
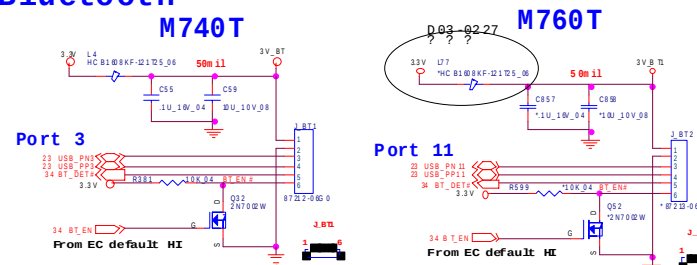
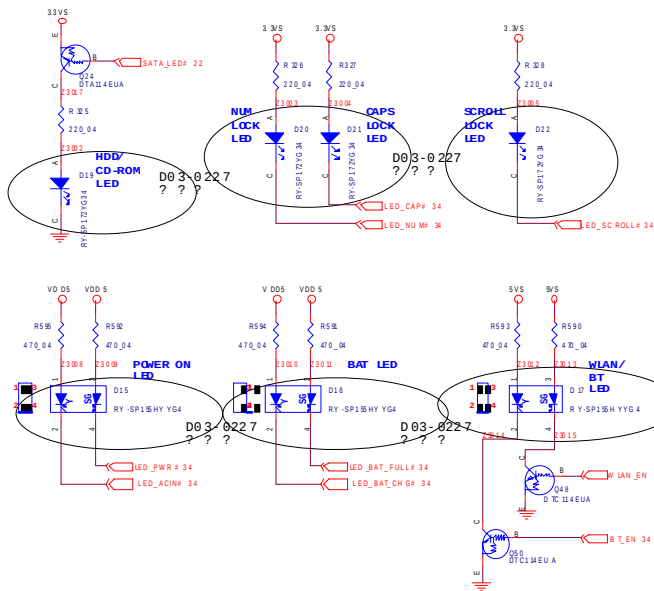
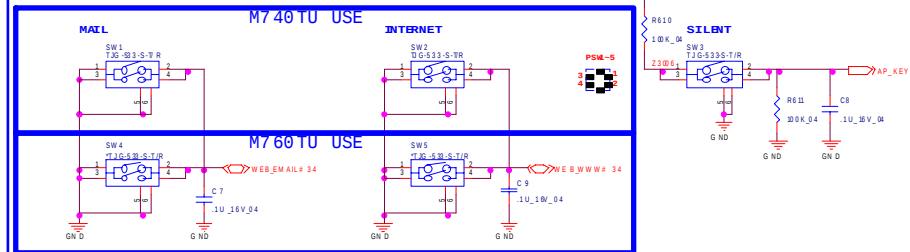
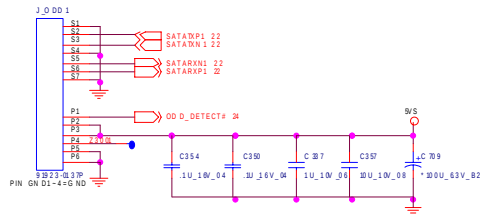
Card Reader Pull High/Low Resistors



Card Reader Connector

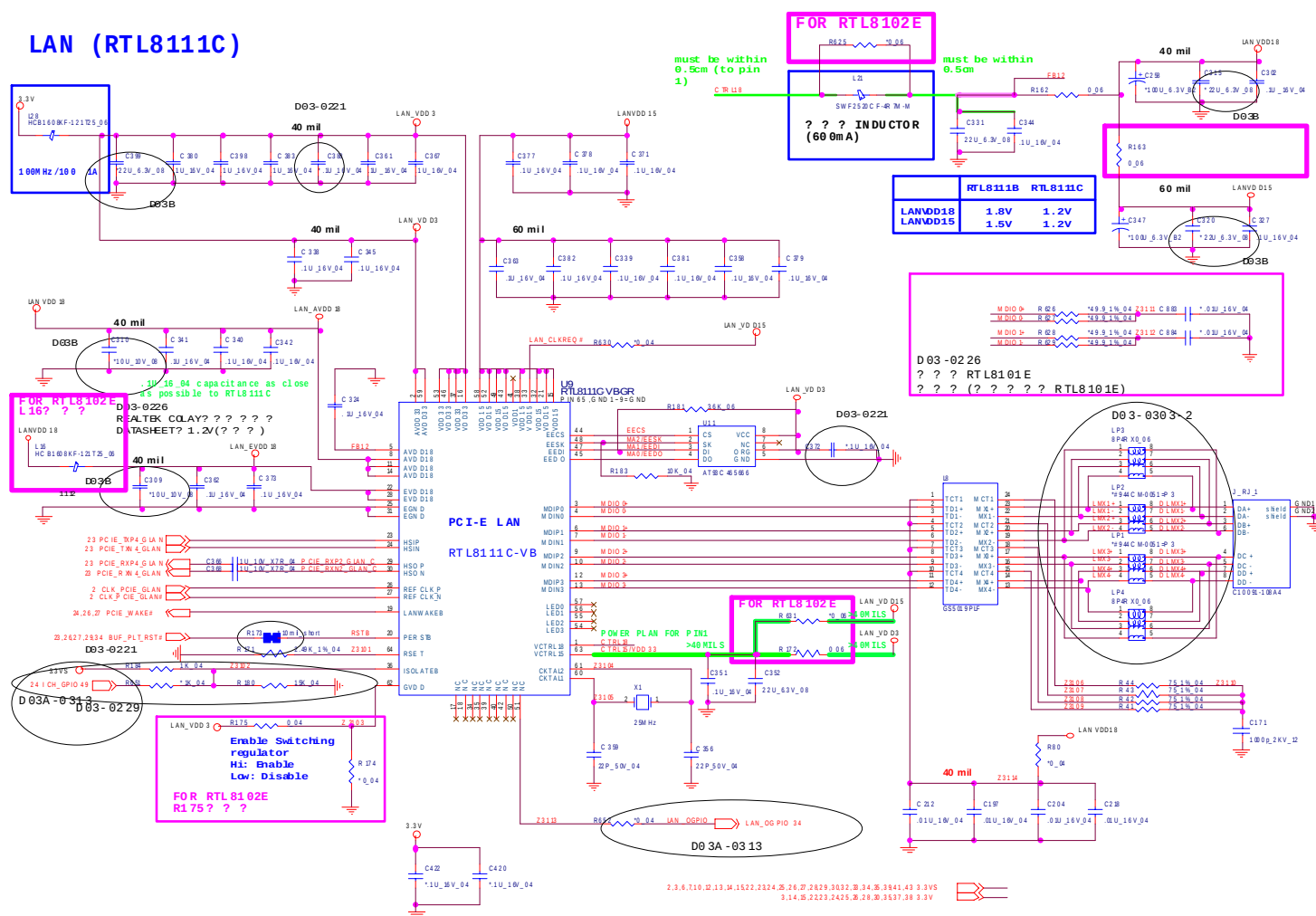


Schematic Diagrams



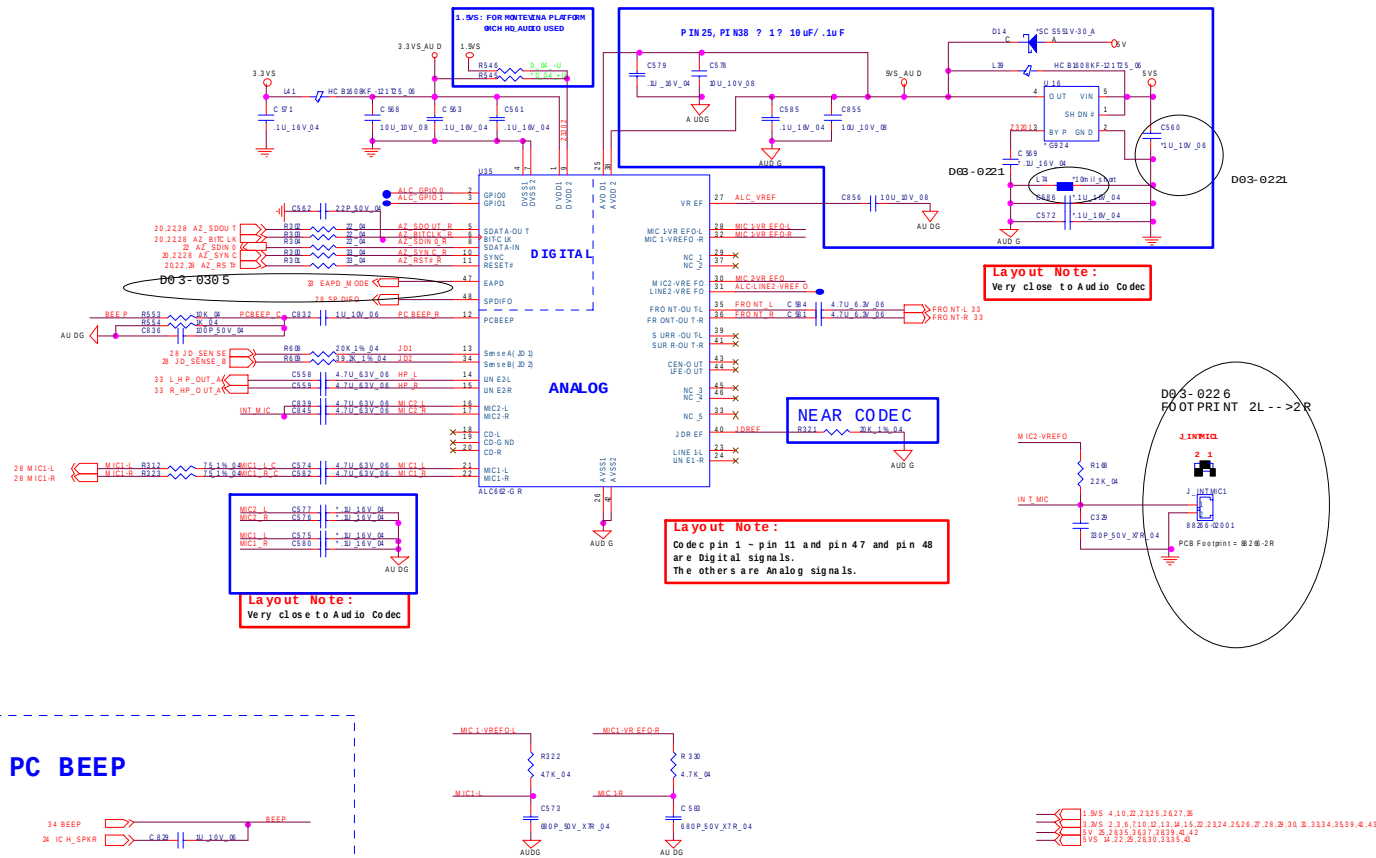
Schematic Diagrams

Sheet 31 of 51
PCI-E LAN
RTL8111C

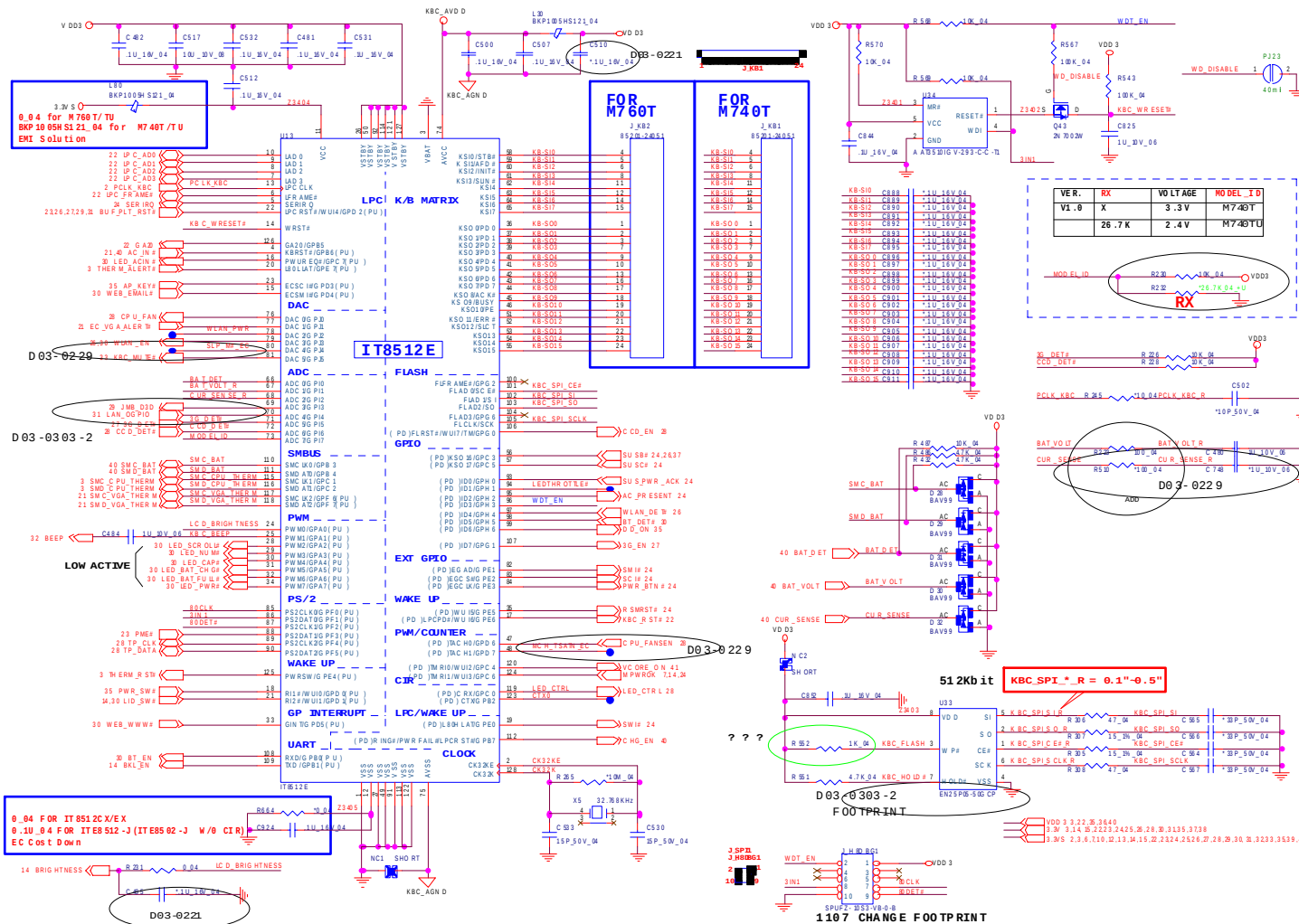


Audio Codec ALC662

CODEC (ALC662-GR)

Sheet 32 of 51
Audio Codec
ALC662

AUDIO AMP

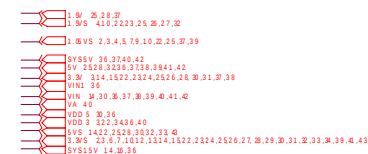
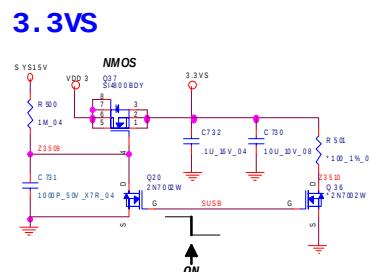
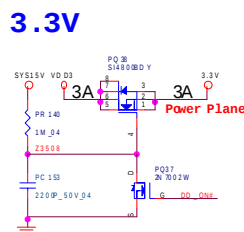
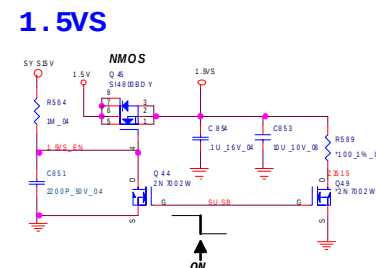
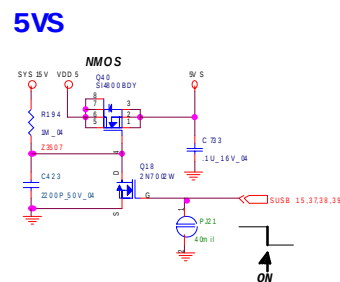
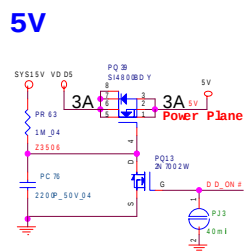
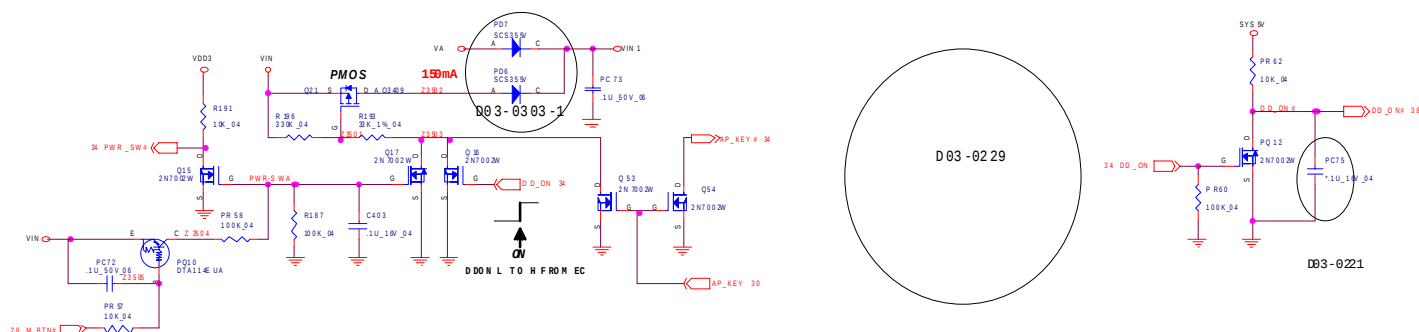


Sheet 34 of 51
KBC-ITE IT8512E

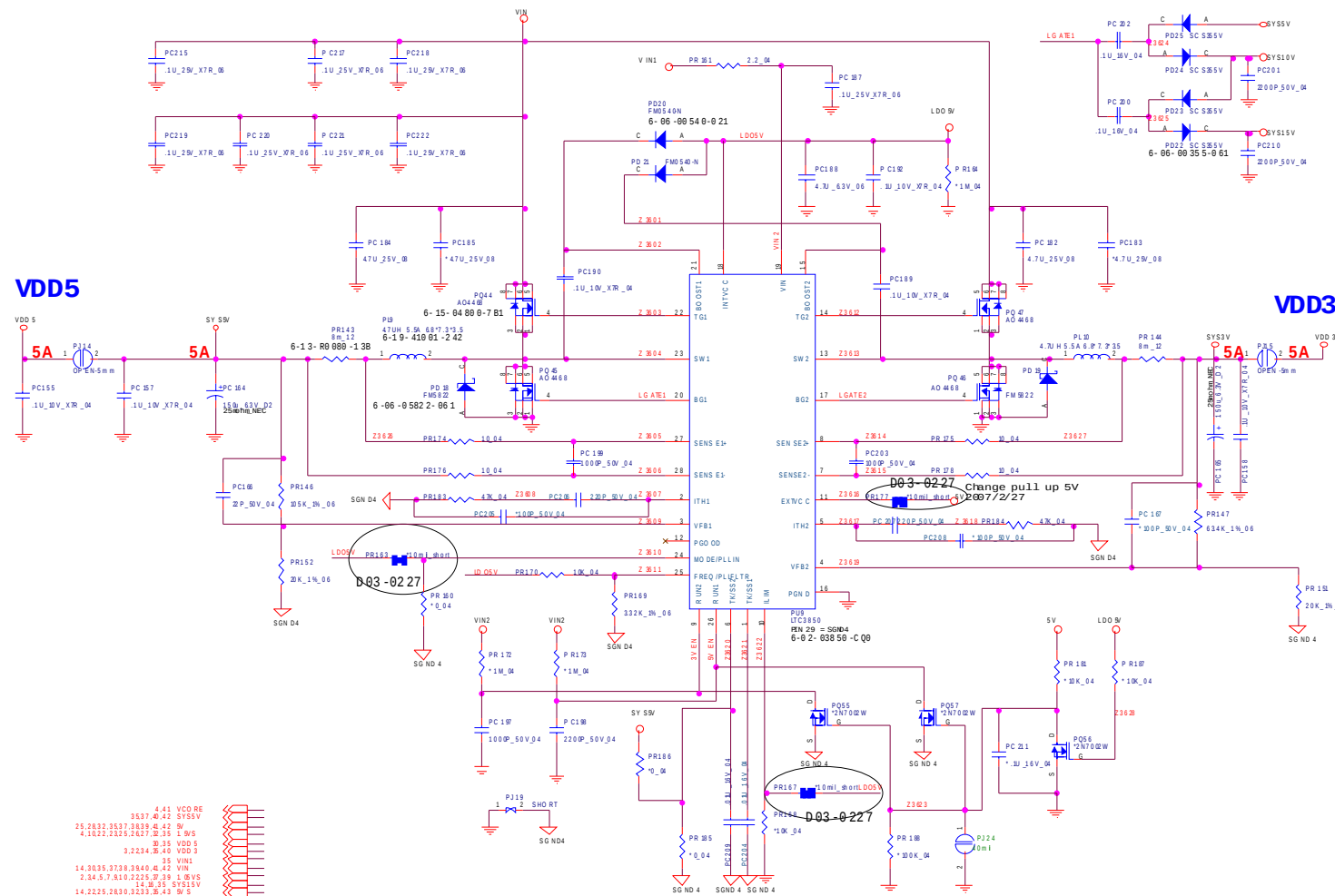
B.Schematic Diagrams

B.Schematic Diagrams

Sheet 35 of 51
5VS, 3VS, 3.3VM,
1.05VS, VIN1



Power 3.3V/5V

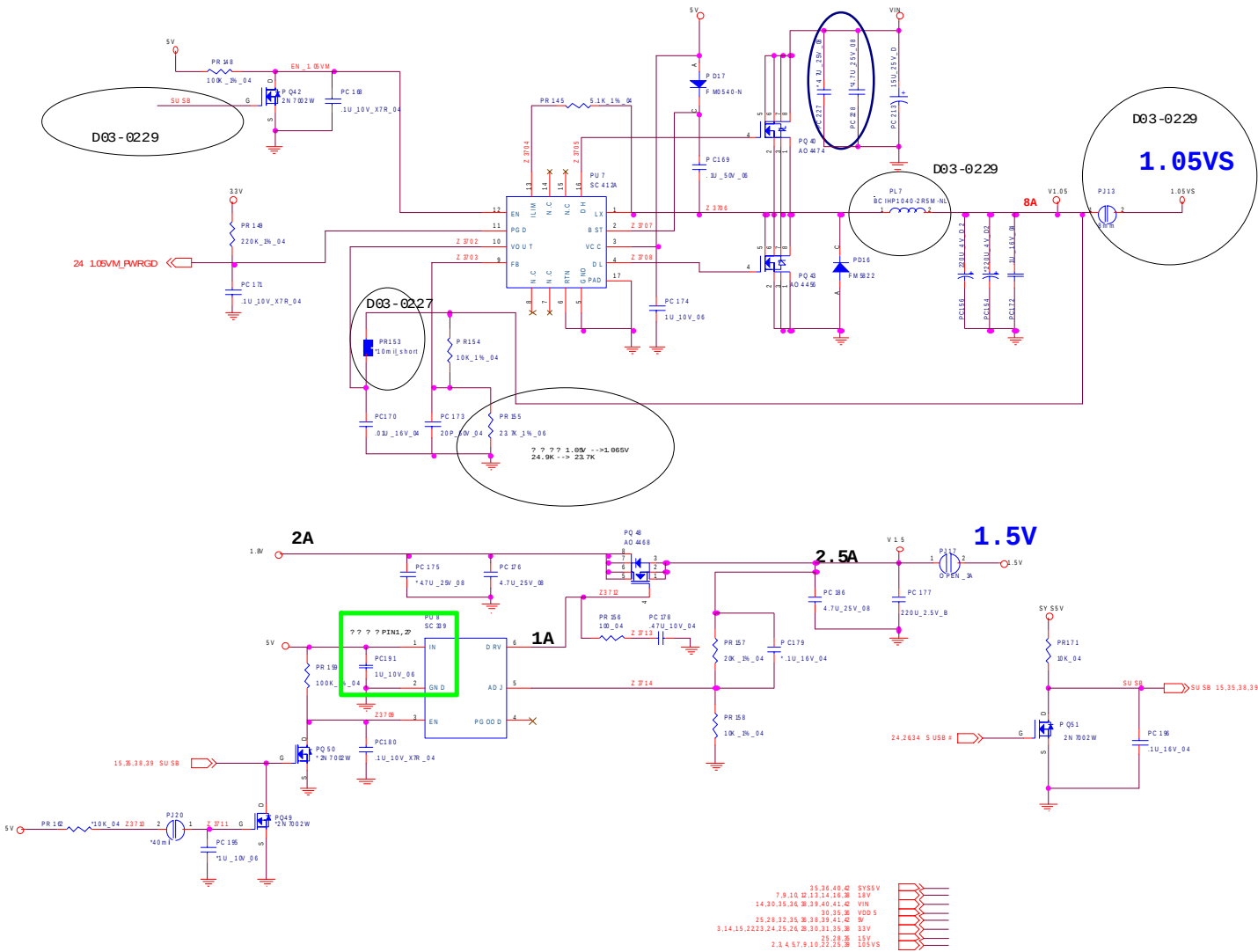


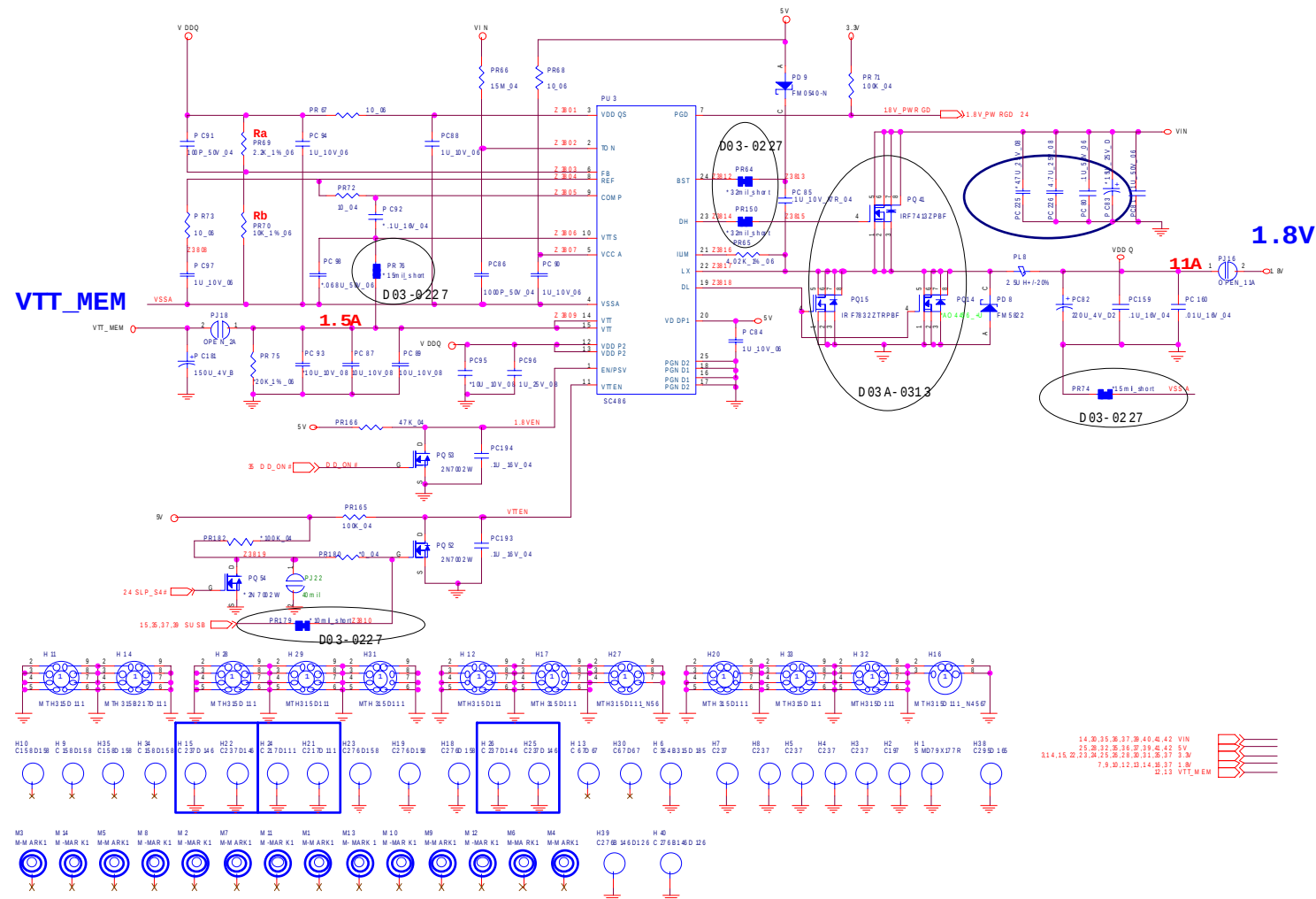
Sheet 36 of 51
Power 3.3V/5V

Schematic Diagrams

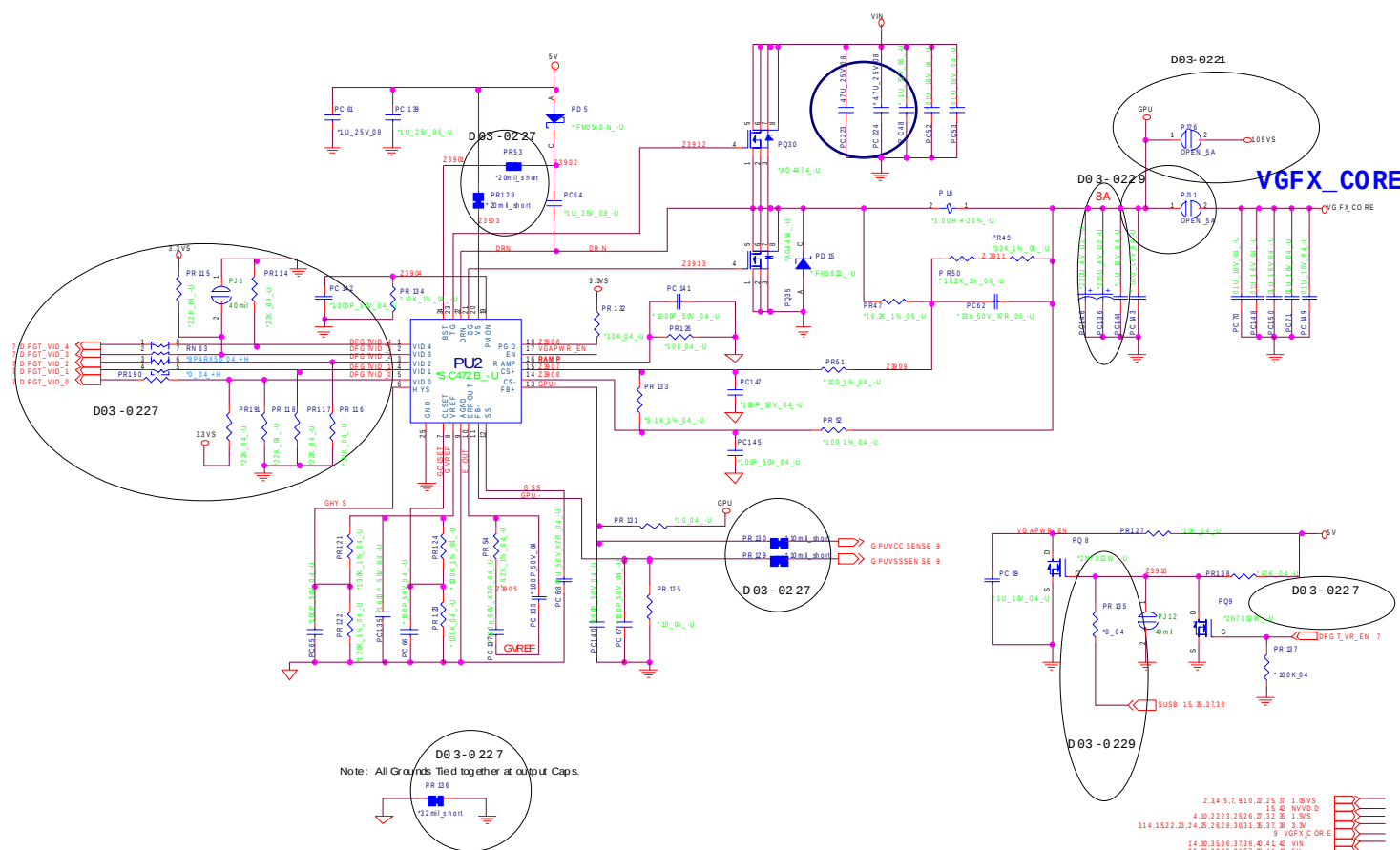
Power 1.5VS/1.05VS

Sheet 37 of 51
Power 1.5VS/
1.05VS



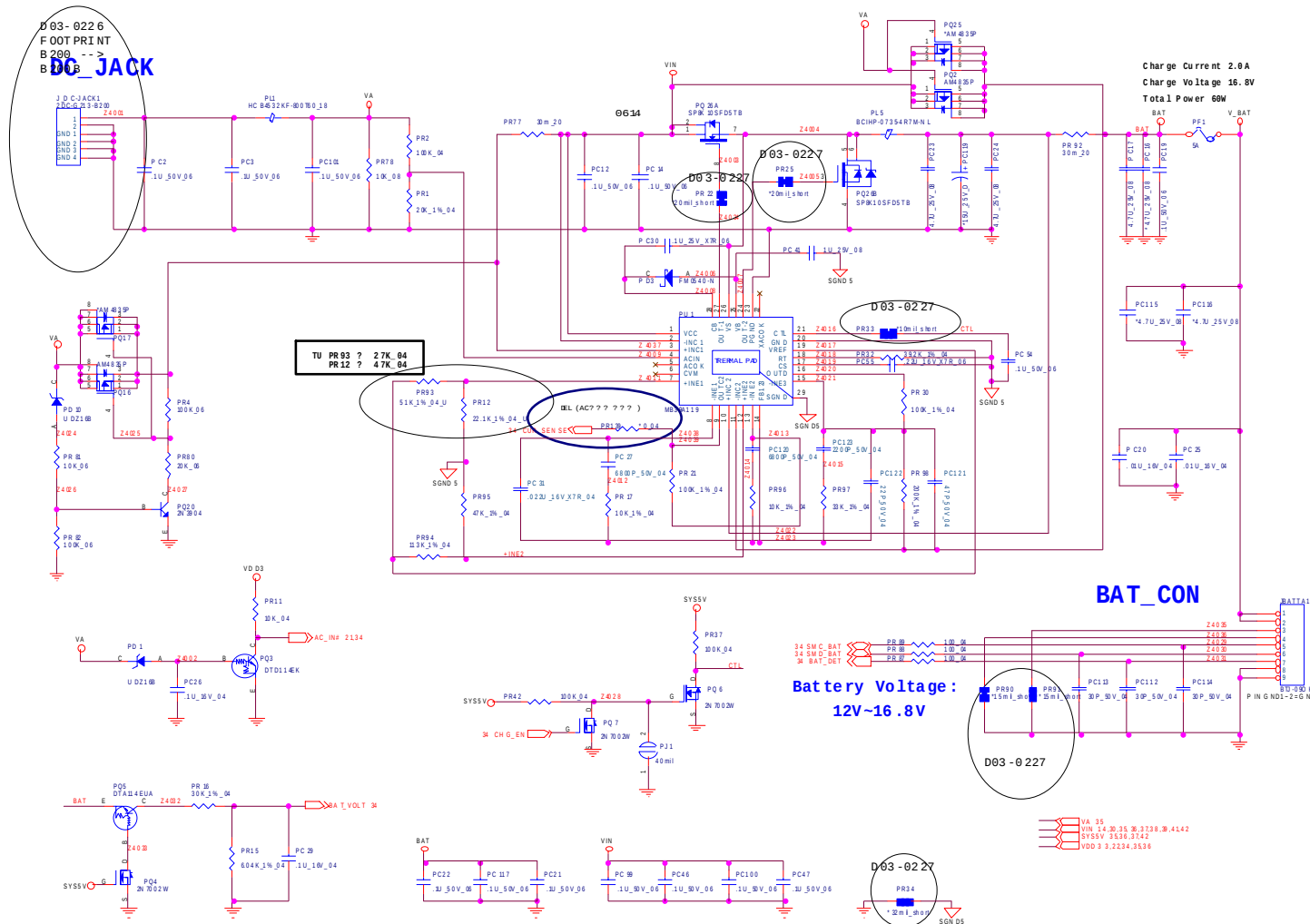
Power 1.8V/0.9V B - 39

Sheet 39 of 51
Power GPU/NVVDD



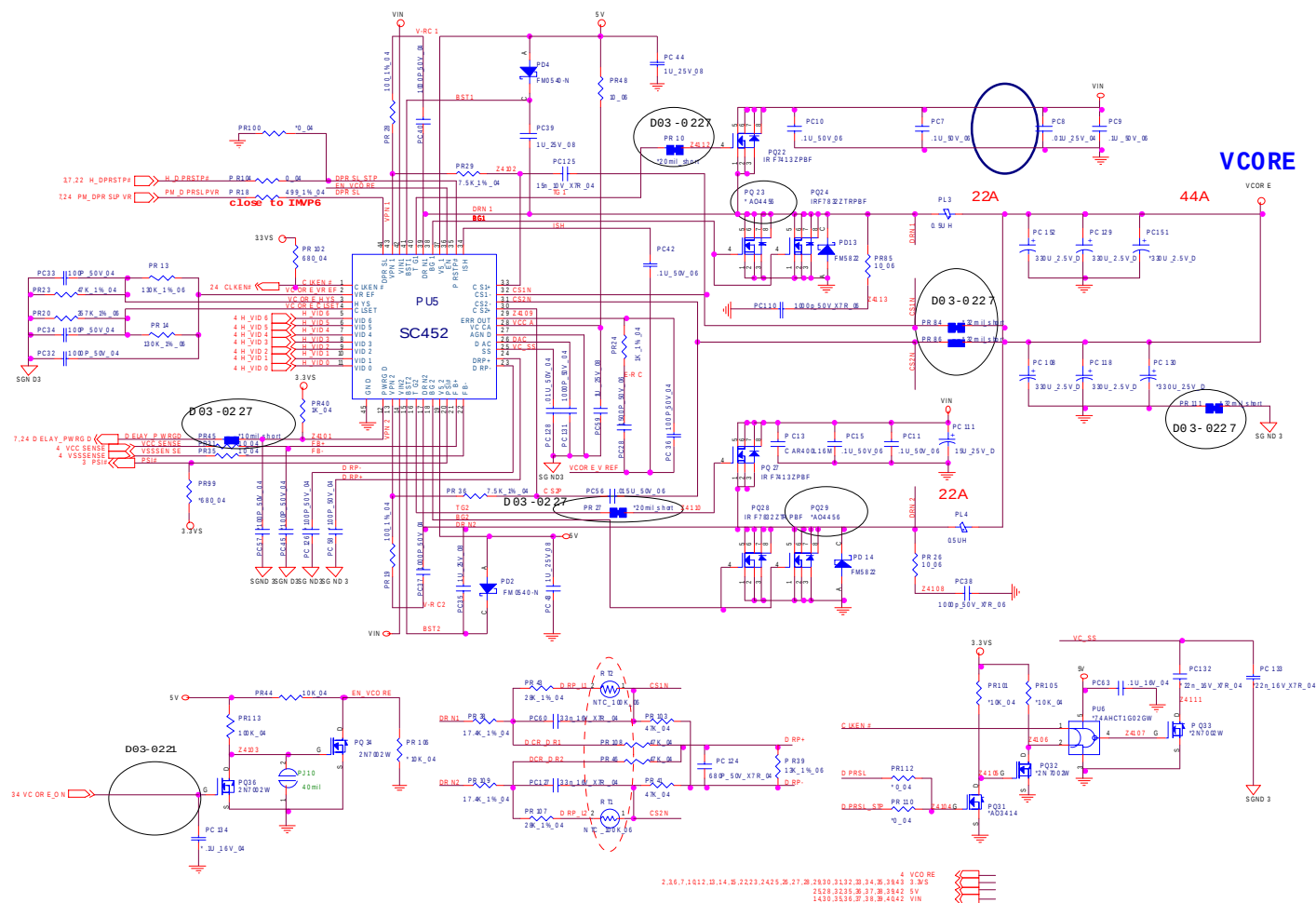
AC-IN, Charger

Sheet 40 of 51
AC-IN, Charger



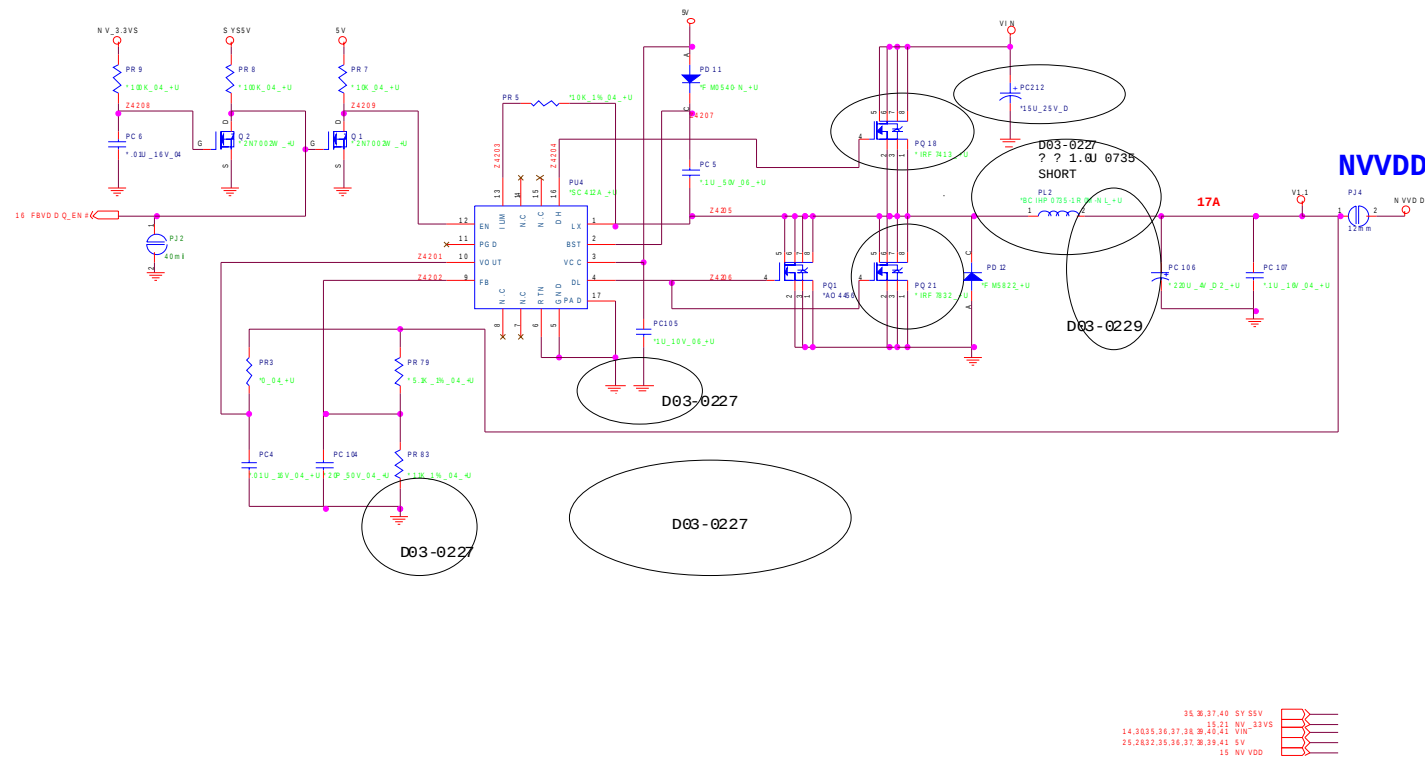
VCORE

Sheet 41 of 51
VCORE



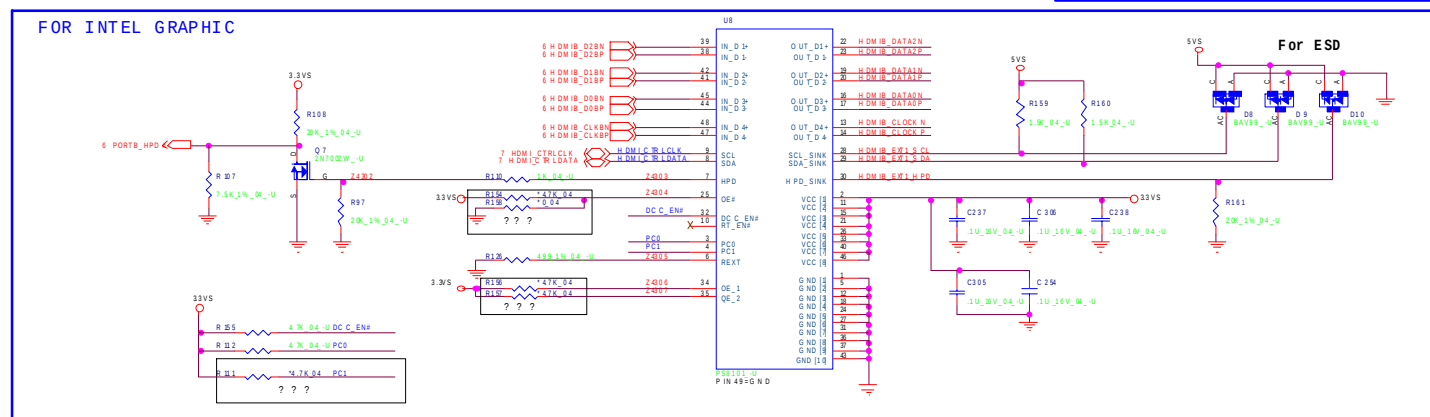
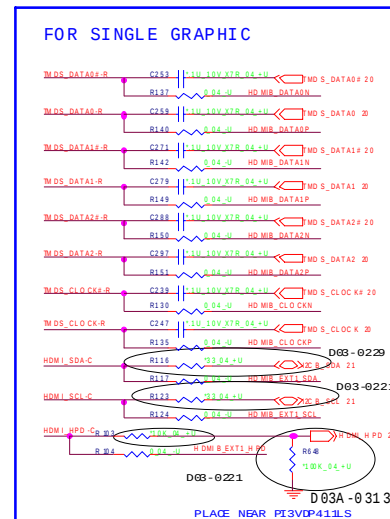
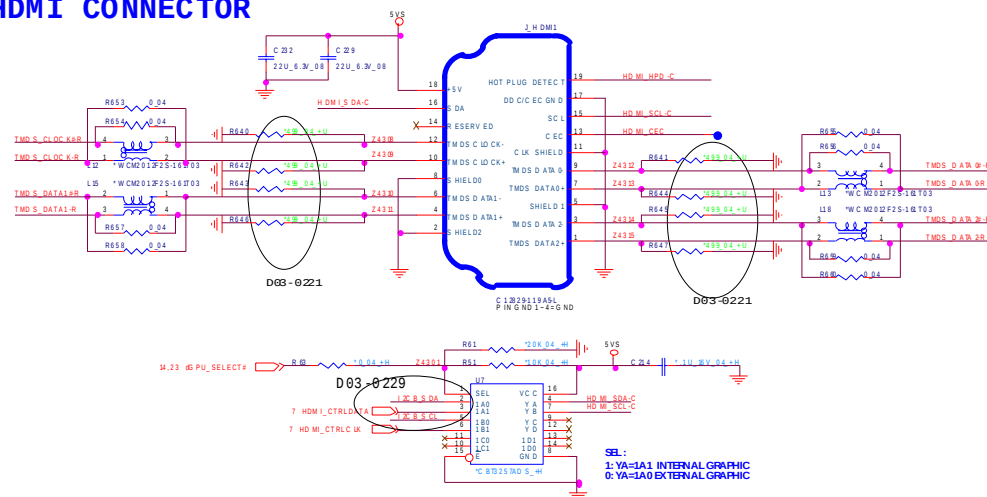
NVVDD

FOR NV VGA



Sheet 42 of 51
NVVDD

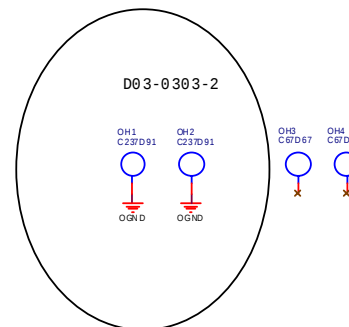
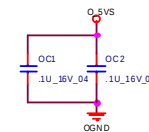
HDMI CONNECTOR



2,3,6,7,10,12,13,14,15,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,41 3.3VS
14,22,25,28,30,32,33,35 5VS

External ODD Board for M76

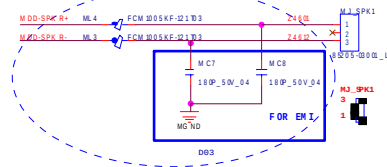
ODD BOARD



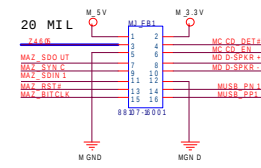
Sheet 44 of 51
External ODD
Board for M76

Multi Function Board

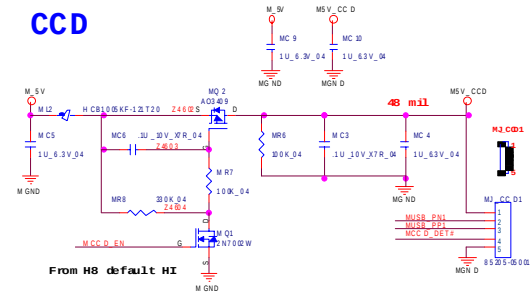
SPEAKER CONNECTOR



MULTI I/O CONN

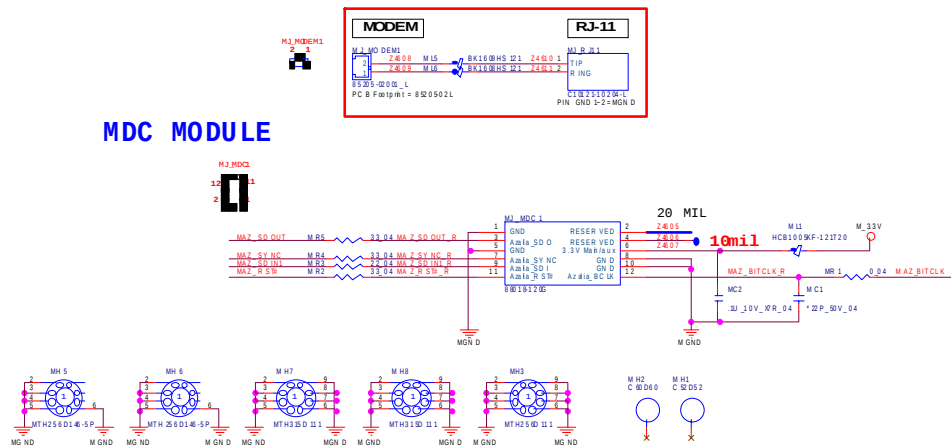


CCD



RJ-11

MDC MODULE



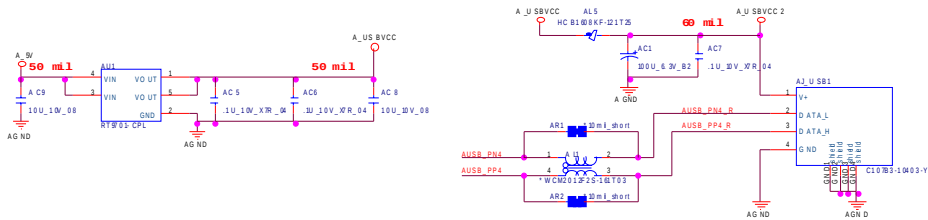
Sheet 46 of 51
Multi Function
Board

Schematic Diagrams

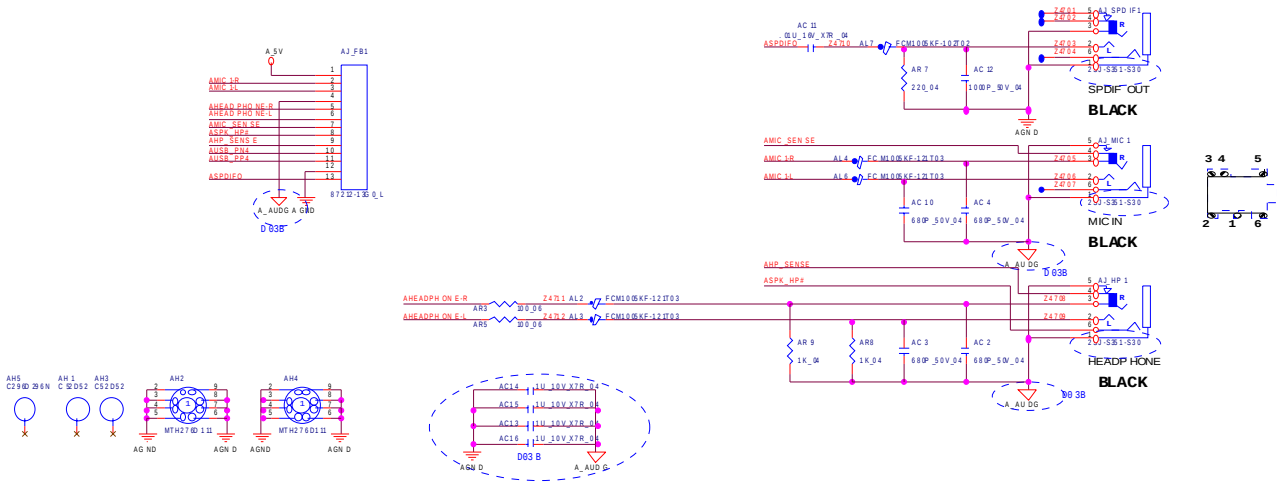
Audio Board

Sheet 47 of 51
Audio Board

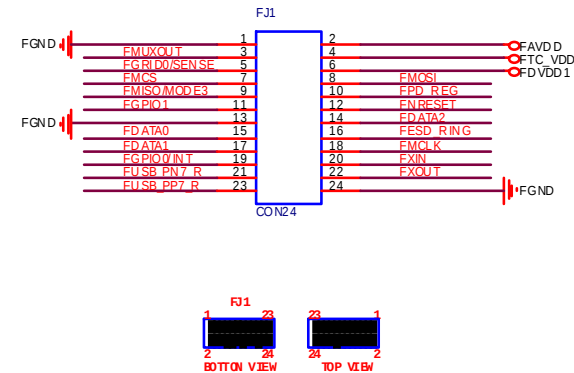
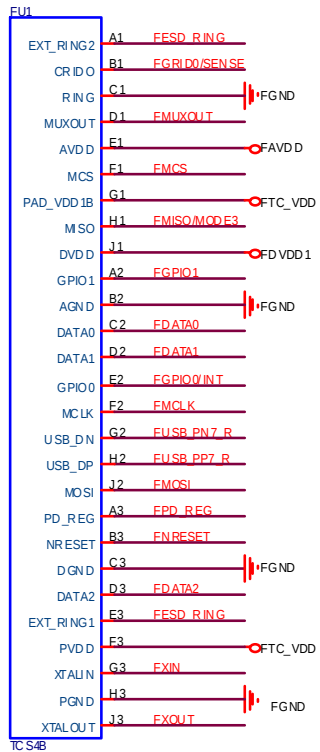
USB PORT



AUDIO JACK



Finger Sensor Board for M76



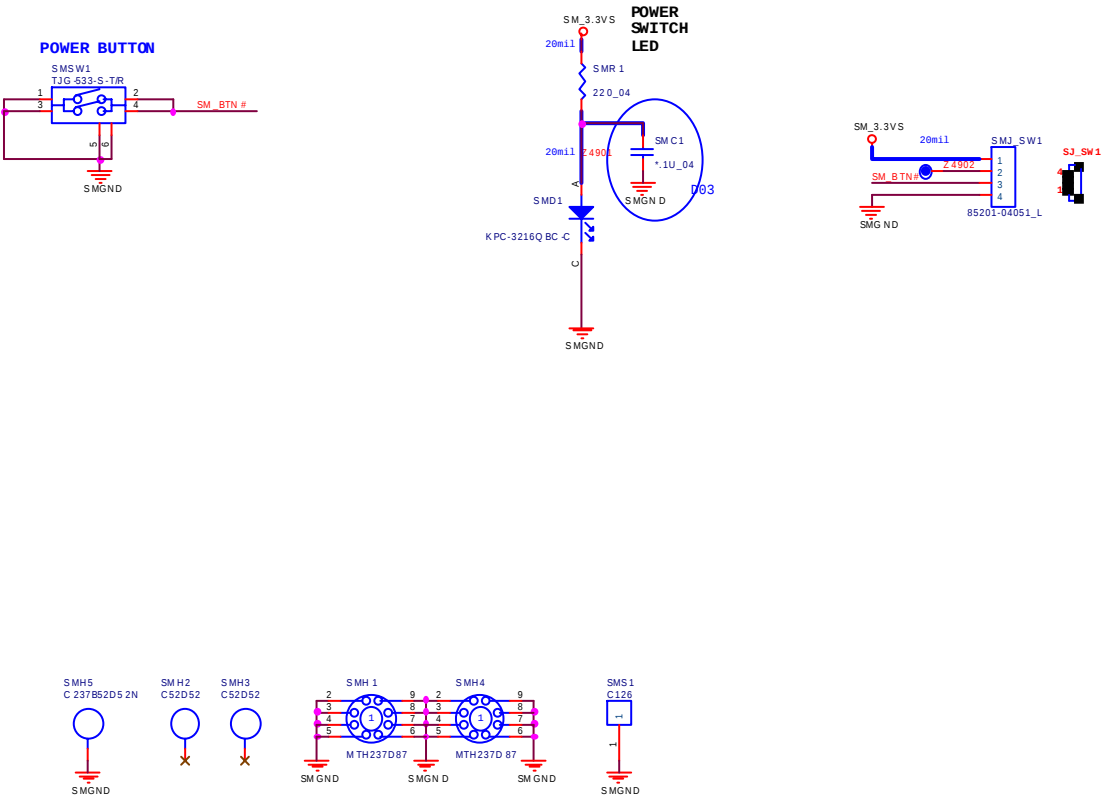
Sheet 48 of 51
Finger Sensor
Board for M76

Schematic Diagrams

Power Switch Board for M74

POWER SW & POWER LED FOR M74

Sheet 49 of 51
Power Switch
Board for M74



Schematic Diagrams

Schematic Diagrams



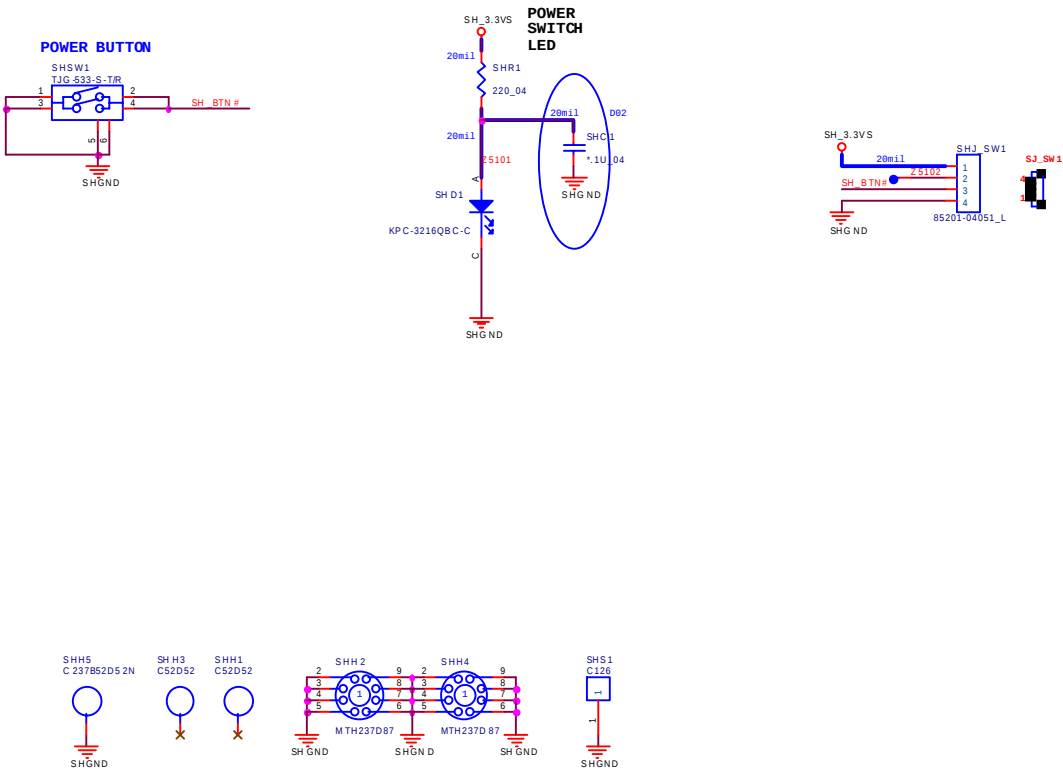
Schematic Diagrams

Schematic Diagrams

Power Switch Board for M76

POWER SW & POWER LED FOR M76

Sheet 51 of 51
Power Switch
Board for M76



Appendix C:Updating the FLASH ROM BIOS

To update the FLASH ROM BIOS you must:

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

Download the BIOS

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

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

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

Set the computer to boot from the external drive

1. With the bootable CD/DVD/USB flash drive containing the BIOS files in your CD/DVD drive/USB port, restart the computer and press **F2** (in most cases) to enter the BIOS.
2. Use the arrow keys to highlight the **Boot** menu.
3. Use the “+” and “-” keys to move boot devices up and down the priority order.
4. Make sure that the CD/DVD drive/USB flash drive is set first in the boot priority of the BIOS.
5. Press **F10** to save any changes you have made and exit the BIOS to restart the computer.



BIOS Version

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

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

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

BIOS Update

Use the flash tools to update the BIOS

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

`C:\> XXX.bat`

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

Restart the computer (booting from the HDD)

1. With the CD/DVD/USB flash drive removed from the CD/DVD drive/USB port the computer should restart from the HDD.
2. Press **F2** as the computer restarts to enter the BIOS.
3. Use the arrow keys to highlight the **Exit** menu.
4. Select **Load Setup Defaults** (or press **F9**) and select “**Yes**” to confirm the selection.
5. Press **F10** to save any changes you have made and exit the BIOS to restart the computer.

Your computer is now running normally with the updated BIOS

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