

SERVICE MANUAL

M740TG / M748TG-C / M765TG / W765TG

notebook



Notebook Computer

M740TG/M748TG-C/M765TG/W765TG

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 1.0
September 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 *M740TG/M748TG-C/M765TG/W765TG* series notebook PC.

The following information is included:

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

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

Appendix A, Part Lists

Appendix B, Schematic Diagrams

IMPORTANT SAFETY INSTRUCTIONS

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

1. Do not use this product near water, for example near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
2. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
3. Do not use the telephone to report a gas leak in the vicinity of the leak.
4. Use only the power cord and batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
5. This product is intended to be supplied by a Listed Power Unit with an AC Input of 100 - 240V, 50 - 60Hz, DC Output of 19V, 3.42A or 18V, 3.5A (**65** Watts) minimum AC/DC Adapter.

CAUTION

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

**TO REDUCE THE RISK OF FIRE, USE ONLY NO. 26 AWG OR LARGER,
TELECOMMUNICATION LINE CORD**

This Computer's Optical Device is a Laser Class 1 Product

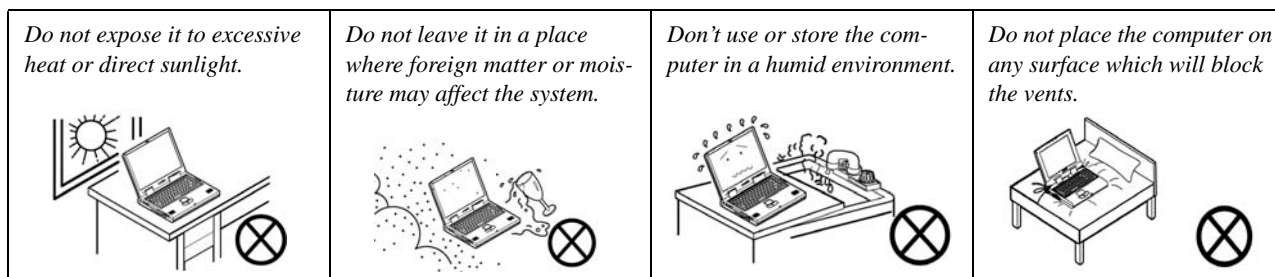
Instructions for Care and Operation

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

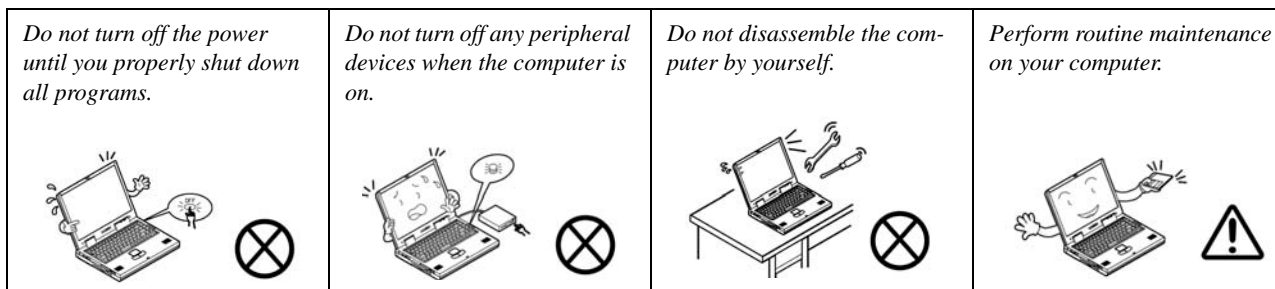
1. **Don't drop it, or expose it to shock.** If the computer falls, the case and the components could be damaged.



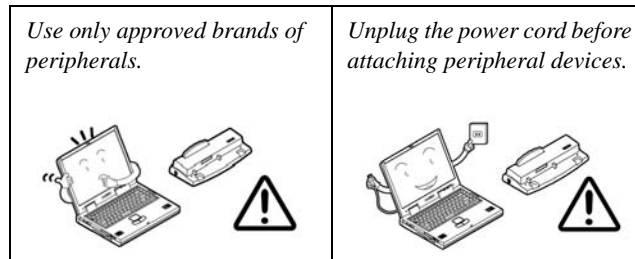
2. **Keep it dry, and don't overheat it.** Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.



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



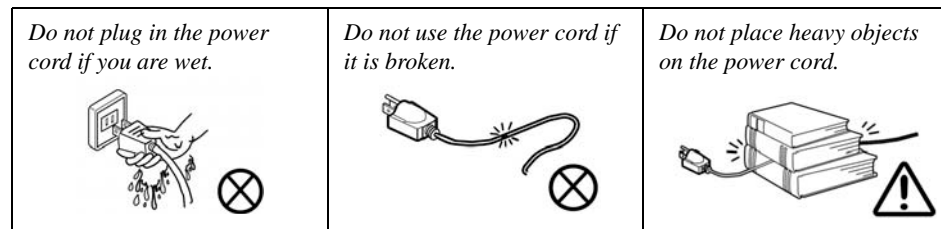
4. **Avoid interference.** Keep the computer away from high capacity transformers, electric motors, and other strong magnetic fields. These can hinder proper performance and damage your data.
5. **Take care when using peripheral devices.**



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.

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

Introduction	1-1	Top without Fingerprint (M740TG)	A-3
Overview	1-1	Top without Fingerprint (M748TG-C)	A-4
System Specifications	1-2	Bottom (M740TG/M748TG-C)	A-5
External Locator - Top View with LCD Panel Open	1-4	LCD (M740TG/M748TG-C)	A-6
External Locator - Front & Right side Views	1-5	DVD-Dual Drive (M740TG/M748TG-C)	A-7
External Locator - Left Side & Rear View	1-6	Top without Fingerprint (M765TG)	A-8
External Locator - Bottom View	1-7	Bottom (M765TG)	A-9
Mainboard Overview - Top (Key Parts)	1-8	LCD (M765TG)	A-10
Mainboard Overview - Bottom (Key Parts)	1-9	DVD-Dual Drive (M765TG)	A-11
Mainboard Overview - Top (Connectors)	1-10	Top without Fingerprint (W765TG)	A-12
Mainboard Overview - Bottom (Connectors)	1-11	Bottom (W765TG)	A-13
Disassembly	2-1	LCD (W765TG)	A-14
Overview	2-1	DVD-Dual Drive (W765TG)	A-15
Maintenance Tools	2-2	Schematic Diagrams.....	B-1
Connections	2-2	System Block Diagram	B-2
Maintenance Precautions	2-3	Clock Generator	B-3
Disassembly Steps	2-4	Penryn (Socket-P) CPU 1/2	B-4
Removing the Battery	2-5	Penryn (Socket-P) CPU 2/2	B-5
Removing the Hard Disk Drive	2-6	CANTIGA 1/7, Host	B-6
Removing the Optical (CD/DVD) Device	2-9	CANTIGA 2/7, Graphics	B-7
Removing the System Memory (RAM)	2-11	CANTIGA 3/7	B-8
Removing the Inverter Board	2-13	CANTIGA 4/7	B-9
Removing and Installing the Processor	2-14	CANTIGA 5/7	B-10
Removing the Wireless LAN Module	2-17	CANTIGA 6/7	B-11
Removing the Bluetooth Module	2-18	CANTIGA 7/7	B-12
Removing the Keyboard	2-19	DDRII SO-DIMM - 0	B-13
Removing the Modem	2-20	DDRII SO-DIMM - 1	B-14
Part Lists	A-1	Panel, Inverter, CRT	B-15
Part List Illustration Location	A-2	VGA N10M-GE1-1	B-16
		VGA N10M-GE1-2	B-17

Preface


VGA N10M-GE1-3	B-18	FingerPrint Board for M74	B-50
VGA N10M-GE1-4	B-19	Power Switch Board for M76	B-51
VGA N10M-GE1-5	B-20	External ODD Board for W76	B-52
VGA N10M-GE1-6	B-21		
VGA N10M-GE1-7	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		
5V, 3.3V, 5VS, 3.3VS, 1.05VS	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		
External ODD Board for M76	B-44		
Click & Finger Board for M76	B-45		
Multi Function Board	B-46		
Audio Board	B-47		
Finger Sensor Board for M76	B-48		
Power Switch Board for M74	B-49		

Chapter 1: Introduction

Overview

This manual covers the information you need to service or upgrade the *M740TG/M748TG-C/M765TG/W765TG* 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*, *Windows 7*, 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 *M740TG/M748TG-C/M765TG/W765TG* 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

<p>Processor</p>	<p>Memory</p>	<p>Interface</p>
<p>Intel® Celeron® Processor T3100 (1.9GHz), T3000 (1.8GHz) 45nm (45 Nanometer) Process Technology, 1MB L2 Cache & 800MHz FSB (Dual Core) 478 pin uFC-PGA Package, Socket P</p>	<p>64-bit Wide DDRII (DDR2) Data Channel Two 200 Pin SO-DIMM Socket Supporting DDRII (DDR2) at 667MHz/800MHz Memory Expandable up to 4GB</p>	<p>Three USB 2.0 Ports One Headphone-Out Jack One Microphone-In Jack One S/PDIF-Out Jack One RJ-11 Modem Jack One RJ-45 LAN Jack One DC-In Jack One External Monitor Port</p>
<p>T1700 (1.8GHz), T1600 (1.66GHz) 65nm (65 Nanometer) Process Technology, 1MB L2 Cache & 667MHz FSB (Dual Core) 478 pin uFC-PGA Package, Socket P</p>	<p>Video</p> <p>Intel® GL40 Integrated Video High Preference 3D/2D Graphic Accelerator Shared Memory Architecture of up to 512MB Supports Microsoft DirectX 10</p>	<p>Card Reader</p>
<p>Intel® Celeron® Processor 900 (2.2GHz) 45nm (45 Nanometer) Process Technology, 1MB L2 Cache & 800MHz FSB 478 pin uFC-PGA Package, Socket P</p>	<p>BIOS</p> <p>One 16Mb SPI Flash ROM Phoenix™ BIOS</p>	<p>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</p>
<p>Core Logic</p>	<p>Storage</p>	<p>Slots</p>
<p>Intel® GL40 + ICH9M Chipset</p>	<p>One Changeable 12.7mm(h) Super Multi Optical Device Drive - SATA interface One Changeable 2.5" 9.5 mm (h) HDD with SATA (Serial) Interface</p>	<p>One ExpressCard/34/54 Slot <u>Two Mini-Card Slots with USB & PCIe interface:</u> Slot 1 for Mini-Card WLAN Module Slot 2 for 3.75G Module (Factory Option)</p>
<p>Display</p>	<p>Audio</p>	<p>Security</p>
<p><u>M740TG/M748TG-C:</u> 14.1" WXGA (1280 * 800) TFT LCD <u>M765TG:</u> 15.4" WXGA (1280 * 800) TFT LCD <u>W765TG:</u> 15.6" HD 16:9 Wide Screen (1366 * 768) TFT LCD</p>	<p>Intel® High Definition Audio Interface 3D Stereo Enhanced Sound System S/PDIF Digital Output Built-In Microphone 2 * Built-In Speakers (1W, 8Ω)</p>	<p>Security (Kensington® Type) Lock Slot BIOS Password</p>
<p>Keyboard & Pointing Device</p>	<p>Full Size WinKey Keyboard Built-In TouchPad</p>	

Communication	Environmental Spec
<p>Built-In 56K MDC Modem, V.90 & V.92 Compliant</p> <p>Built-In Gigabit Ethernet LAN</p> <p>802.11b/g Wireless LAN Mini-Card Module with USB Interface</p> <p>Intel® WiFi Link 1000 Series (802.11b/g/n) Wireless LAN PCIe interface Half Mini-Card Module (Option)</p> <p>Bluetooth 2.1 + EDR (Enhanced Data Rate) Module with USB Interface (Factory Option)</p> <p>1.3M Pixel PC Camera Module with USB interface (Factory Option)</p> <p>3.75G Module Mini-Card Module with USB Interface:</p> <p>UMTS/HSPDA-based 3.75G Module with Mini-Card Interface (Factory Option)</p> <p>Quad-band GSM/GPRS (850 MHz, 900 MHz, 1800 MHz, 1900 MHz)</p> <p>UMTS WCDMA FDD (2100 MHz)</p> <p>Note that UMTS modes CAN NOT be used in North America</p>	<p>Temperature</p> <p>Operating: 5°C - 35°C</p> <p>Non-Operating: -20°C - 60°C</p> <p>Relative Humidity</p> <p>Operating: 20% - 80%</p> <p>Non-Operating: 10% - 90%</p>
	Dimensions & Weight
	<p>M740TG/M748TG:</p> <p>336mm (w) * 250mm (d) * 24.8 - 35.7mm (h)</p> <p>2.3kg (with 6 Cell Battery & ODD)</p> <p>M765TG:</p> <p>359mm (w) * 268mm (d) * 24.8 - 37mm (h)</p> <p>Around 2.6 kg (with 6 Cell Battery & ODD)</p> <p>W765TG:</p> <p>374mm (w) * 256mm (d) * 25 - 37.9mm (h)</p> <p>2.6 kg (with 6 Cell Battery & ODD)</p>
	Optional
	<p>Super Multi Optical Device Drive</p> <p>802.11b/g Wireless LAN Mini-Card Module with USB Interface</p> <p>Intel® WiFi Link 1000 Series (802.11b/g/n) Wireless LAN PCIe interface Half Mini-Card Module</p> <p>Bluetooth 2.1 + EDR (Enhanced Data Rate) Module with USB Interface (Factory Option)</p> <p>1.3M Pixel PC Camera Module with USB interface (Factory Option)</p> <p>UMTS/HSPDA-based 3.75G Module with Mini-Card Interface (Factory Option)</p>
Power Management	
<p>Supports Wake on LAN</p> <p>Supports Wake on USB</p> <p>Supports Wake on Modem Ring</p>	
Power	
<p>Full Range AC/DC Adapter</p> <p>AC input 100 - 240V, 50 - 60Hz,</p> <p>DC Output 19V, 3.42A or 18.5V, 3.5A (65 Watts)</p> <p>6 Cell Smart Lithium-Ion Battery Pack, 3S2P, 4400mAH</p>	

Introduction

External Locator - Top View with LCD Panel Open

Figure 1
Top View

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



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

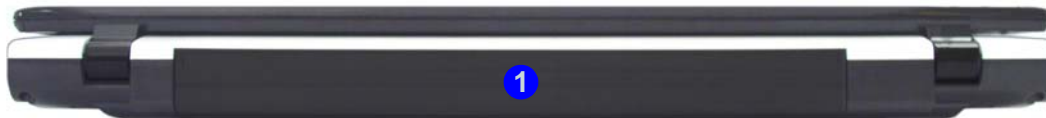
Figure 4
Left Side View

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

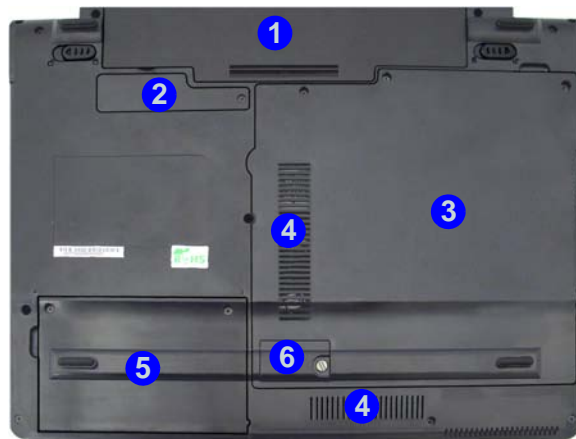


Figure 5
Rear View

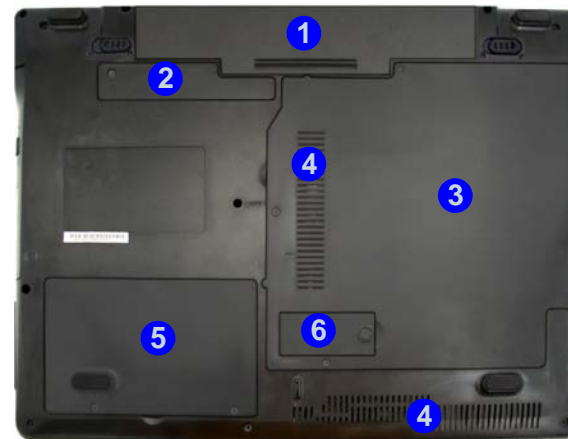
1. Battery



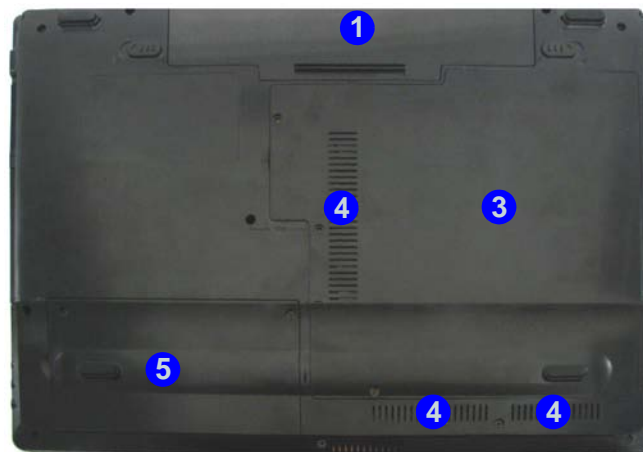
External Locator - Bottom View



M740TG/M748TG-C



M765TG



W765TG

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



Overheating

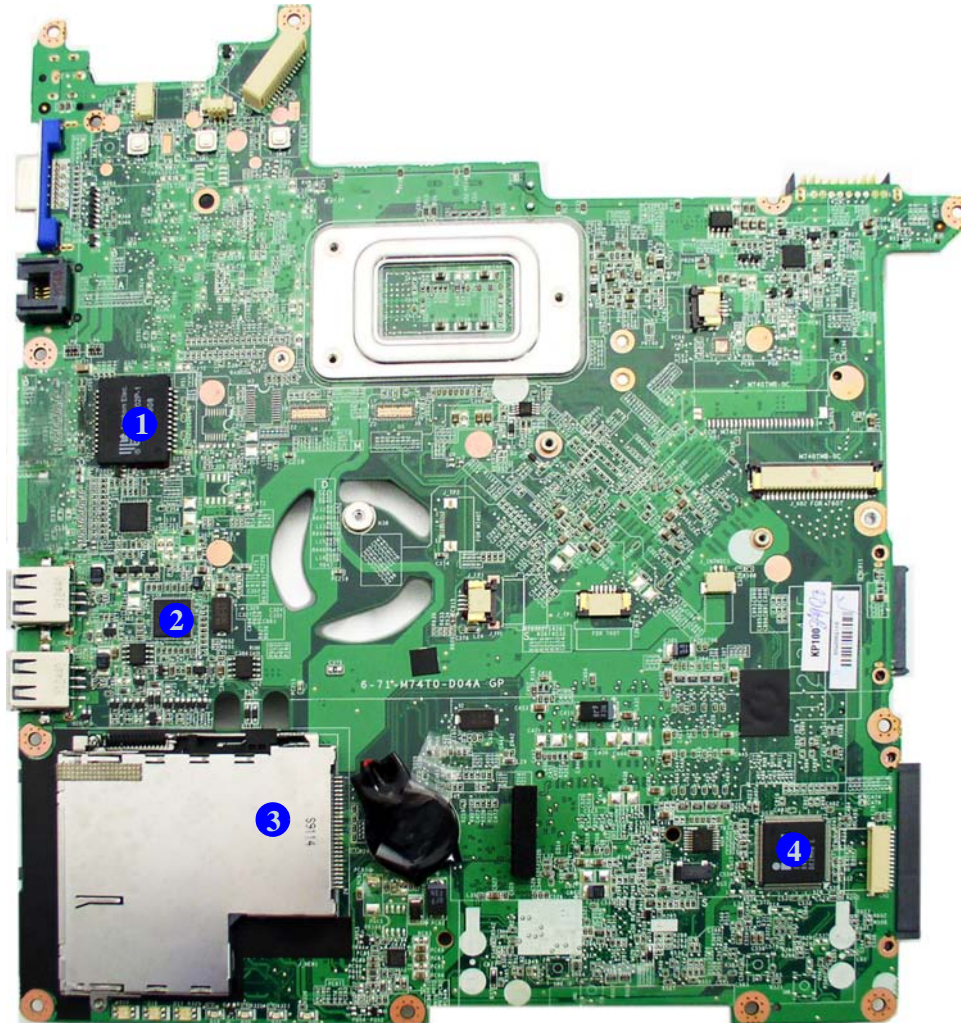
To prevent your computer from overheating make sure nothing blocks the vent/fan intakes while the computer is in use.

Introduction

Figure 7
**Mainboard Top
Key Parts**

1. Transformer
2. RTL8111C
3. ExpressCard
Connector
4. KBC ITE
IT8502E-J

Mainboard Overview - Top (Key Parts)



Mainboard Overview - Bottom (Key Parts)

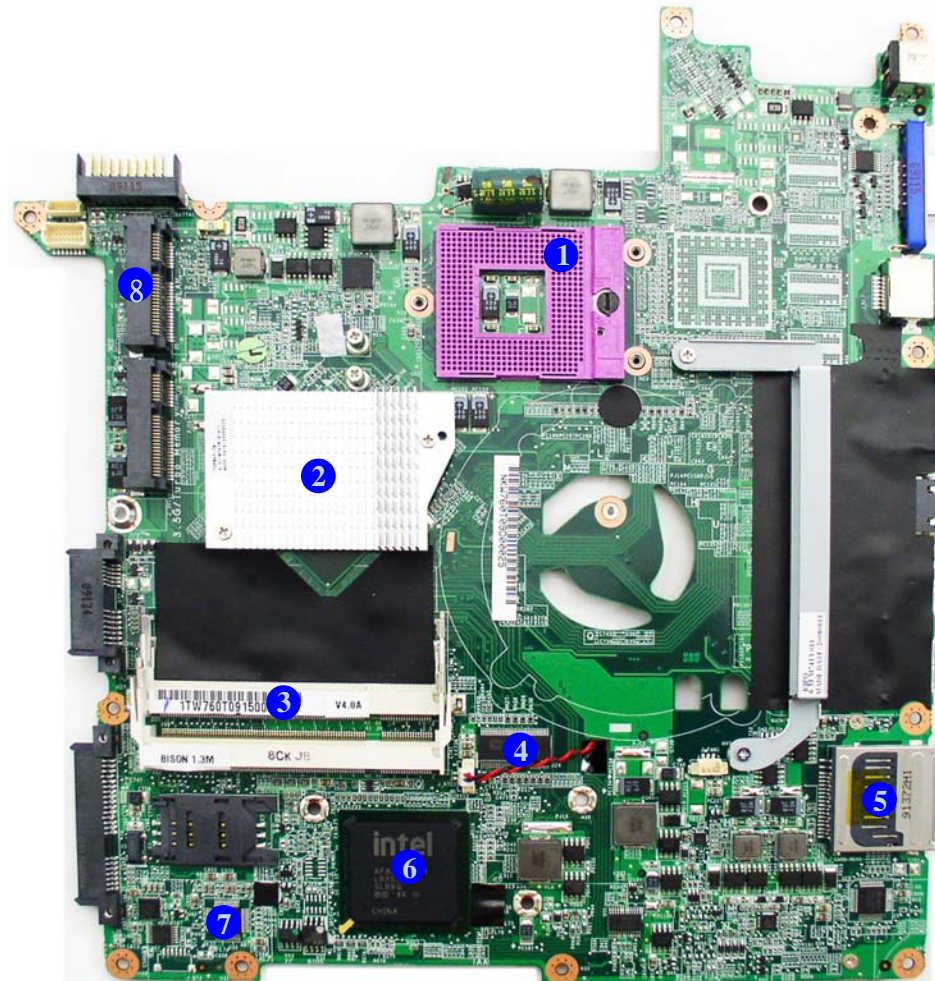


Figure 8
**Mainboard Bottom
Key Parts**

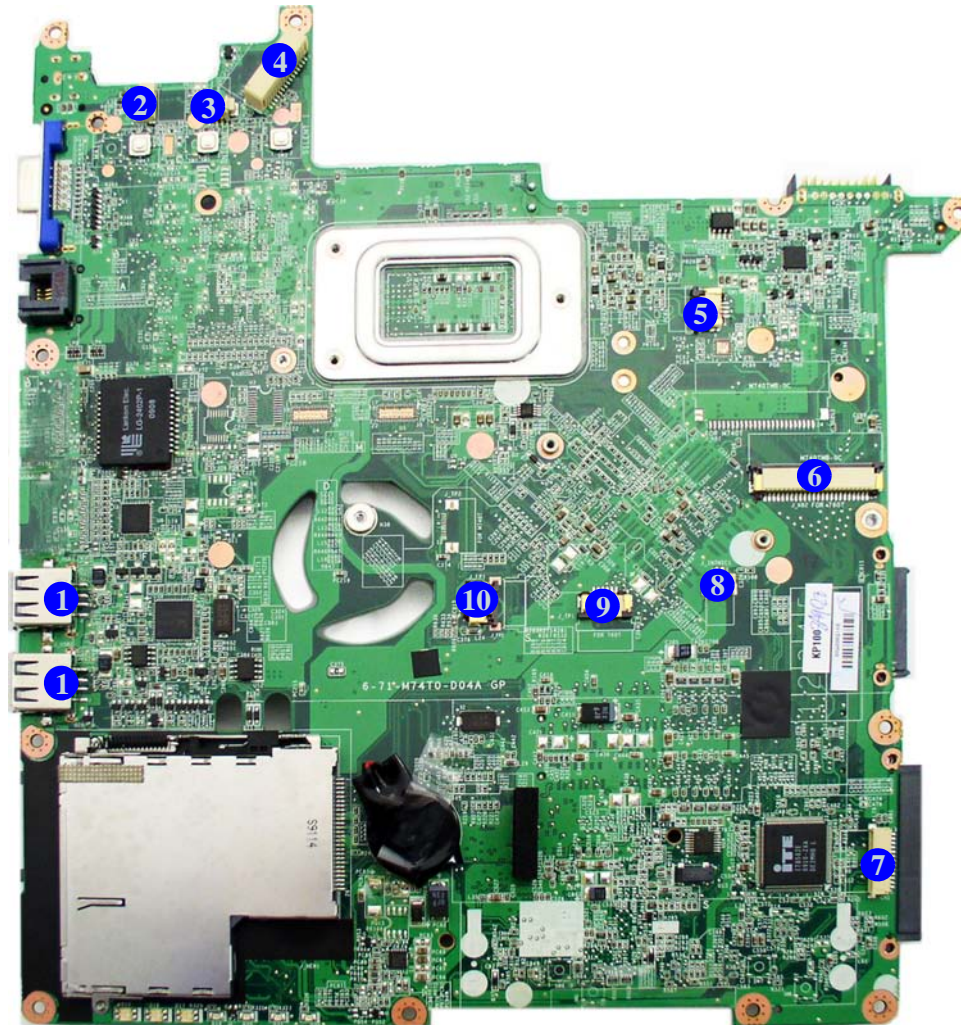
1. CPU Socket (no CPU installed)
2. North Bridge
3. Memory Slots
DDR2 SO-DIMM
4. ICS
9LPR363EGLF
5. Card Reader
Socket
6. South Bridge
7. Audio Codec
ALC662GR
8. Mini-Card
Connector (WLAN
Module)

Introduction

Figure 9
**Mainboard Top
Connectors**

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

Mainboard Overview - Top (Connectors)



Mainboard Overview - Bottom (Connectors)

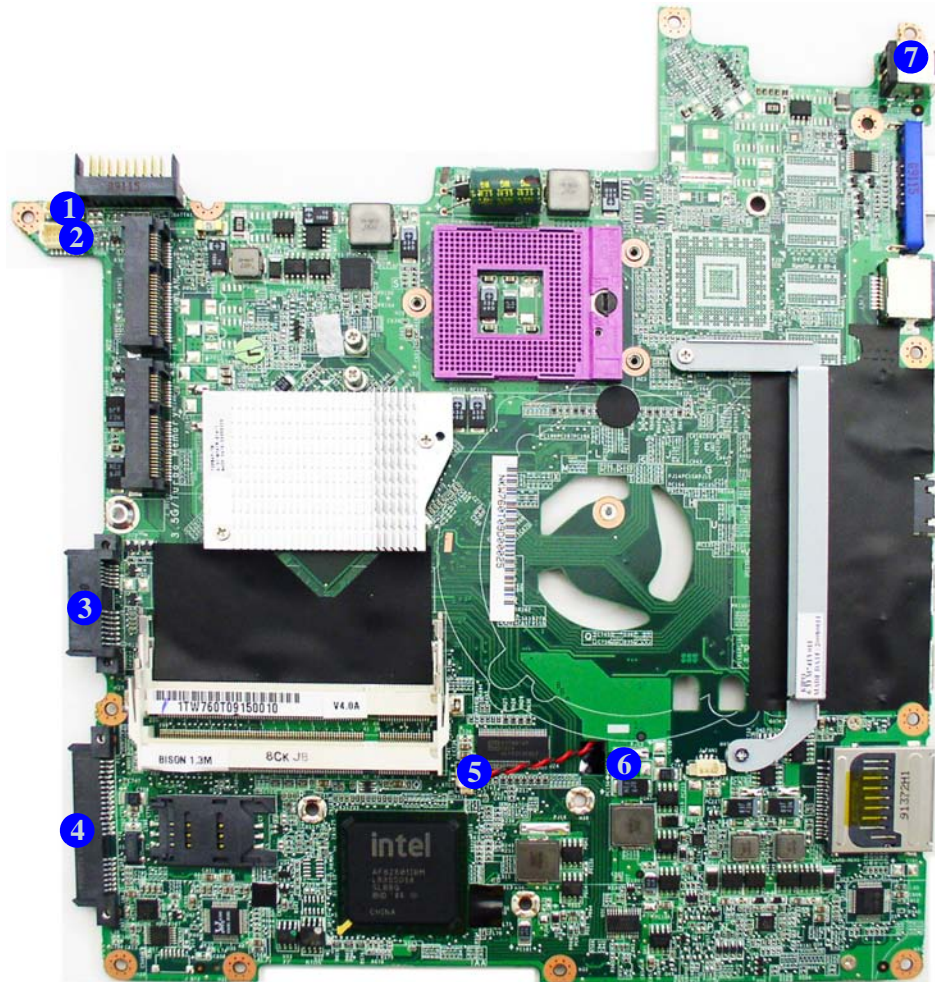


Figure 10
**Mainboard Bottom
Connectors**

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 *M740TG/M748TG-C/M765TG/W765TG* 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.

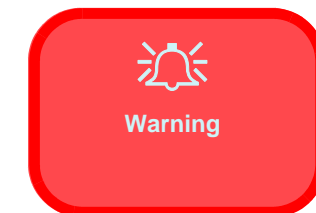
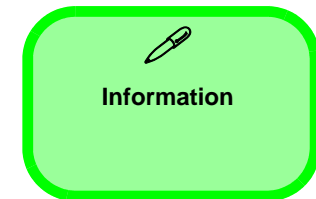
The overall design pictured in this manual may appear slightly different from your model design (these designs are subject to change and up-grade without notice), however the disassembly procedures illustrated should still be correct.

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-borne particulate matter is often attracted to charged surfaces, reducing performance.
10. **Keep track of the components.** When removing or replacing any part, be careful not to leave small parts, such as screws, loose inside the computer.

Cleaning

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

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



Power Safety Warning

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

Disassembly Steps

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

To remove the Battery:

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

To remove the HDD:

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

To remove the 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**.

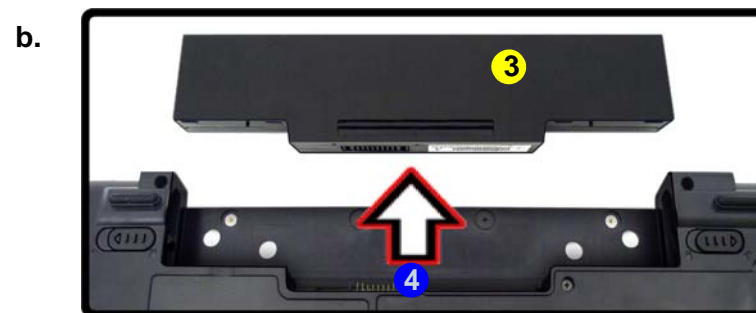
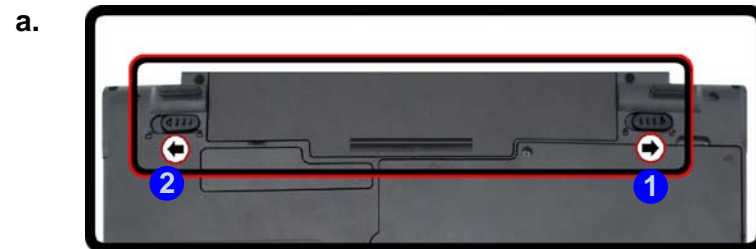
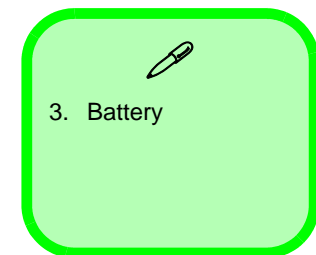


Figure 1
Battery Removal

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



Removing the Hard Disk Drive

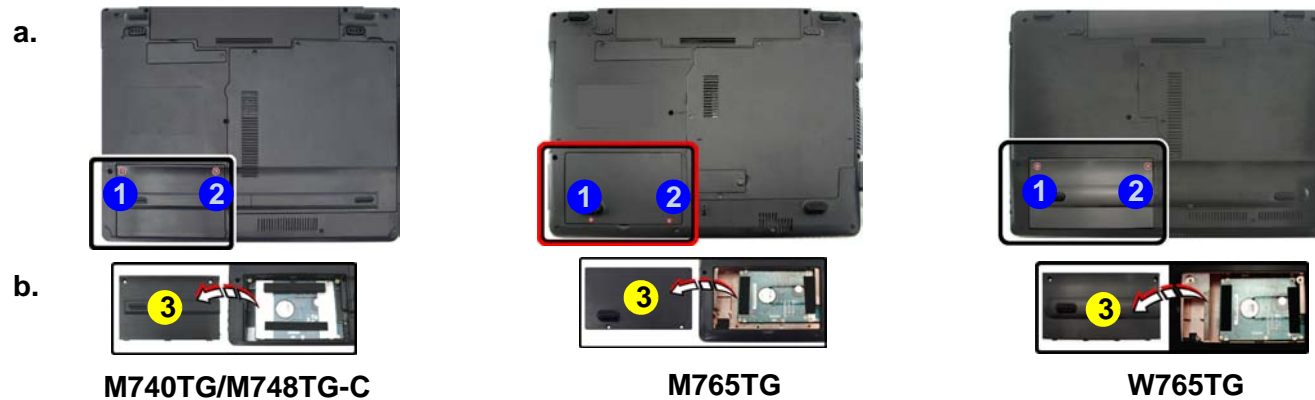
The hard disk drive can be taken out to accommodate other 2.5" serial (SATA) hard disk drives with a height of 9.5mm (h). Follow your operating system's installation instructions, and install all necessary drivers and utilities (as outlined in **Chapter 4 of the User's Manual**) when setting up a new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

Figure 2
HDD Assembly Removal

Hard Disk Upgrade Process

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

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



M740TG/M748TG-C

M765TG

W765TG



3. HDD Bay Cover

- 2 Screws



HDD System Warning

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

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

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

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

For M740TG/M748TG-C computers:

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).

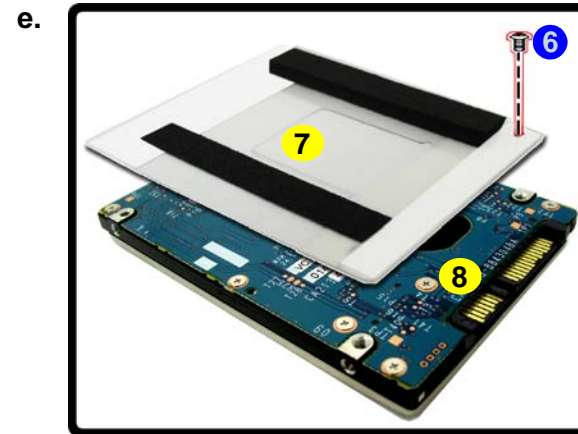
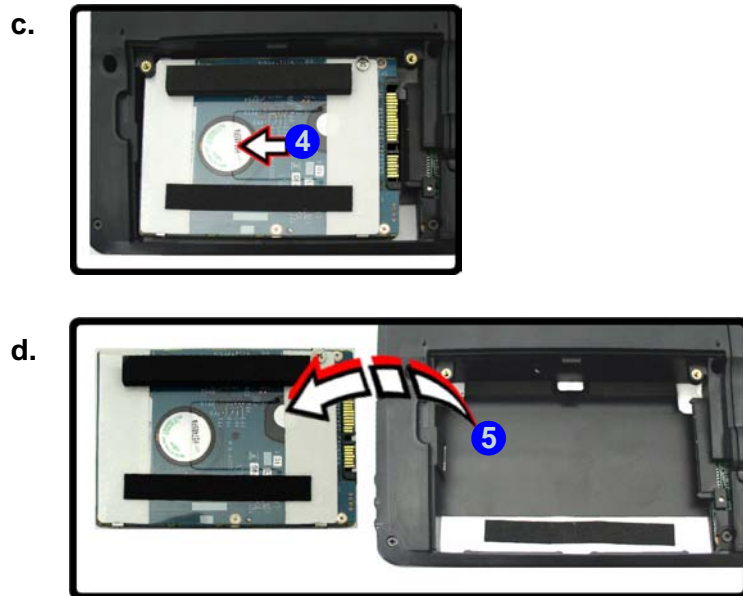
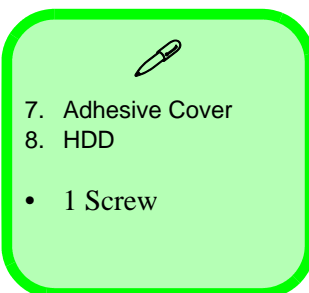


Figure 3
**HDD Assembly
Removal (cont'd.)**

- 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.



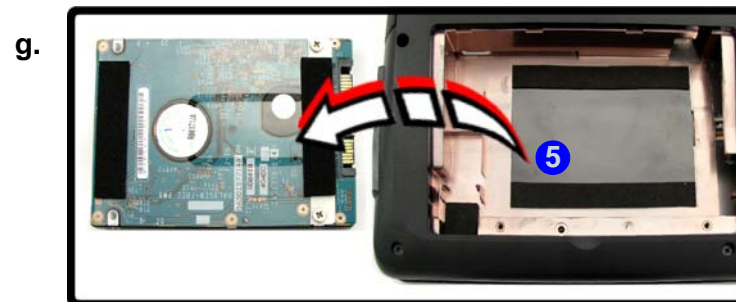
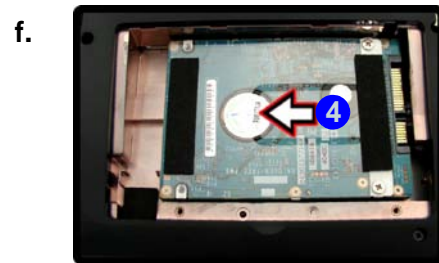
Disassembly

Figure 4 HDD Assembly Removal (cont'd.)

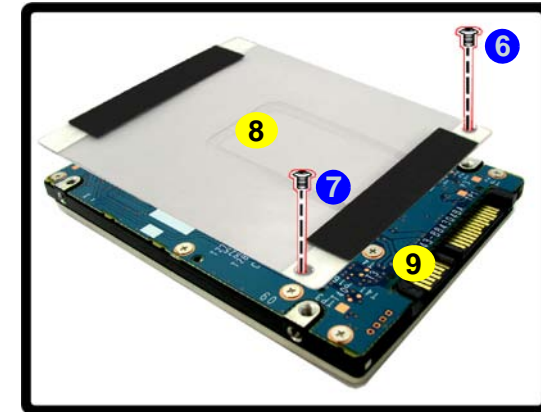
- g. Grip the tab and slide the HDD in the direction of the arrow.
- h. Lift the HDD assembly out of the bay.
- i. Remove the screw and adhesive cover.

For **M765TG/W765TG** computers:

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



h.



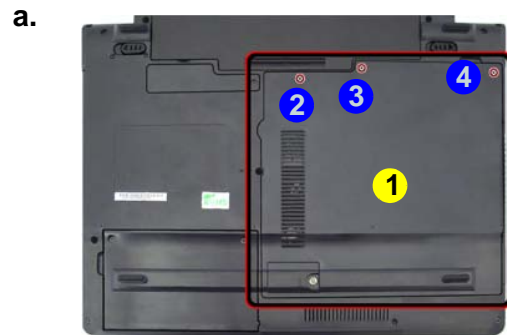
- 8. Adhesive Cover
- 9. HDD
- 2 Screws

Removing the Optical (CD/DVD) Device

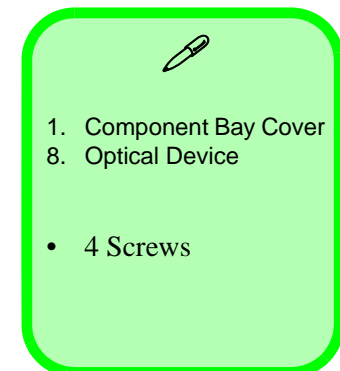
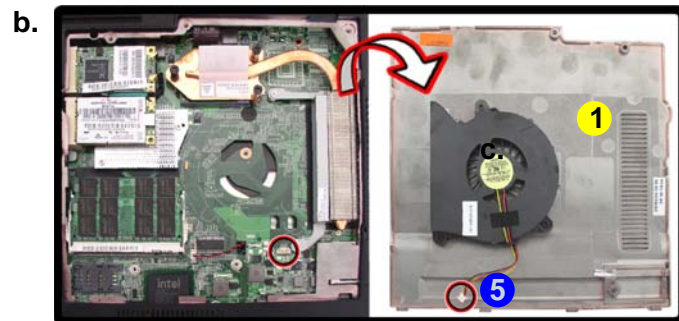
1. Turn **off** the computer, and remove the battery ([page 2 - 5](#)).
2. **M740TG/M748TG-C: (see over for M765TG/W765TG)** Locate the component bay cover **1** and remove screws **2** - **4**.
3. Carefully (**a fan and cable are attached to the under side of the cover**) lift up the bay cover.
4. Carefully 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.



M740TG/M748TG-C

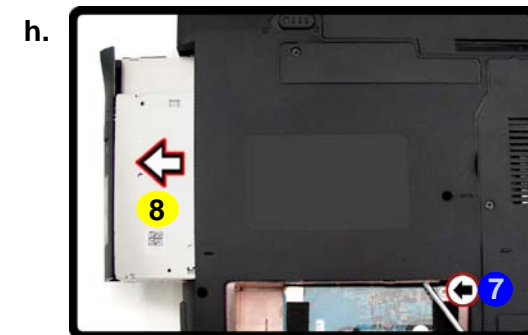
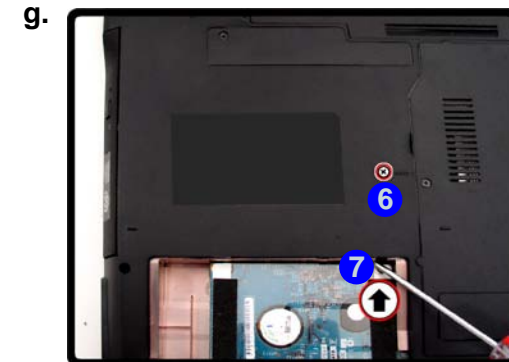
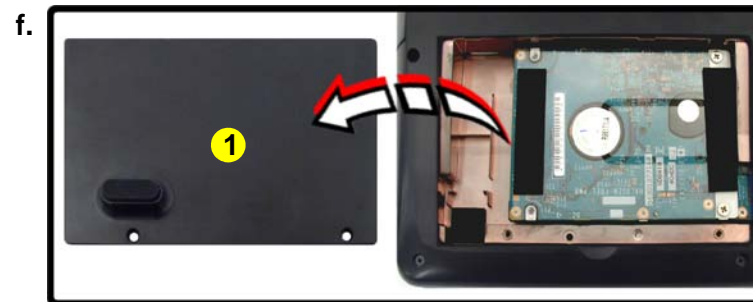


Disassembly

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. **M765TG/W765TG:** Locate the hard disk bay cover **1** and remove 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**.

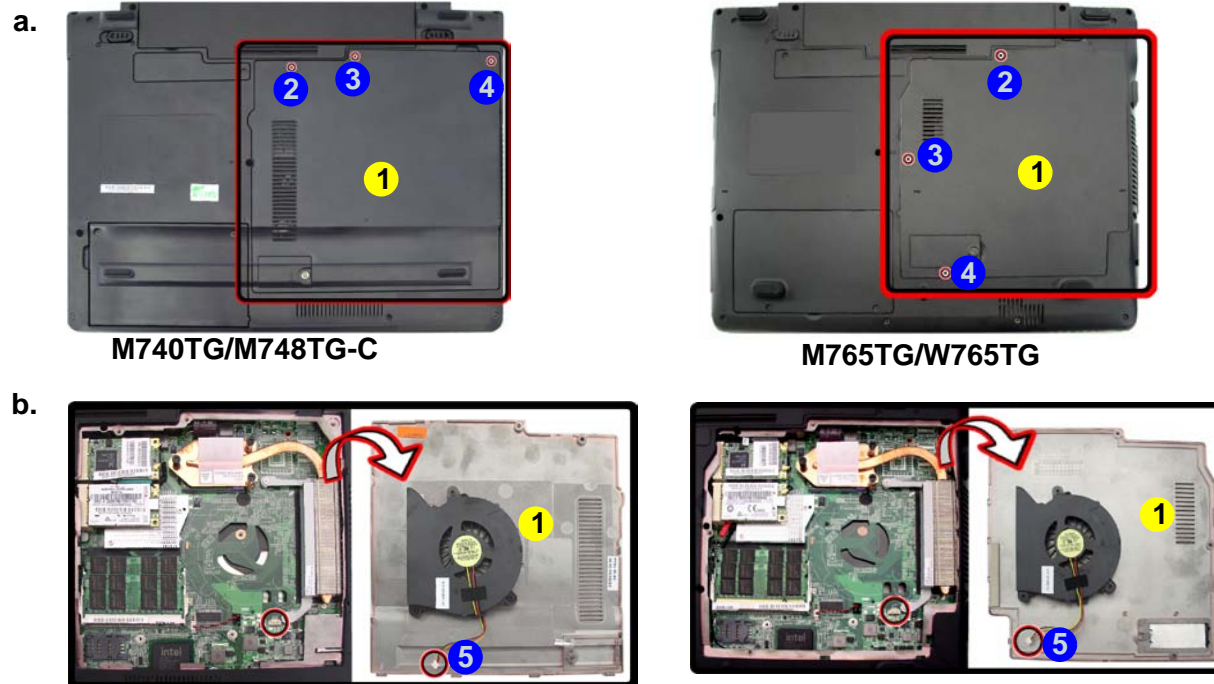


Figure 7
RAM Module
Removal

- 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.



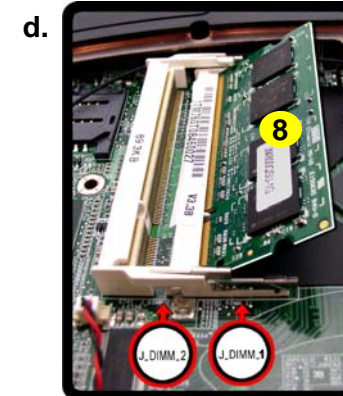
Single Memory Module Installation

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](#).



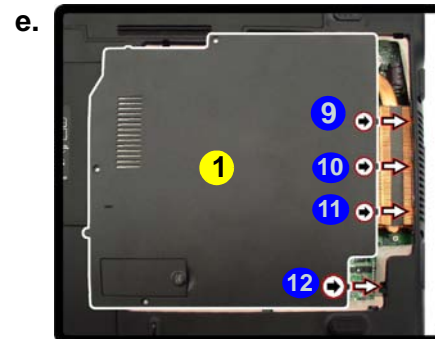
8. RAM Module(s)

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



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

Note for M765TG 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.



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

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.

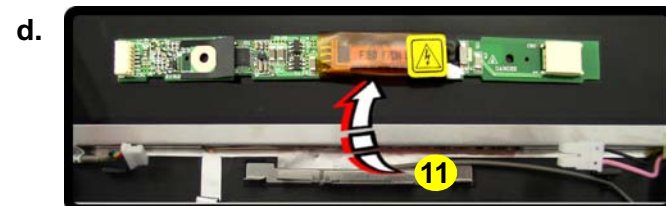
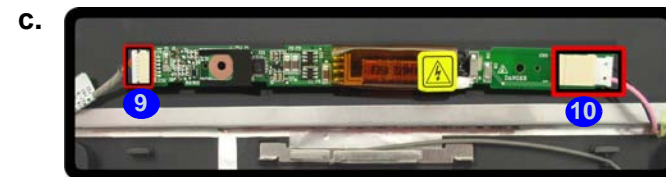
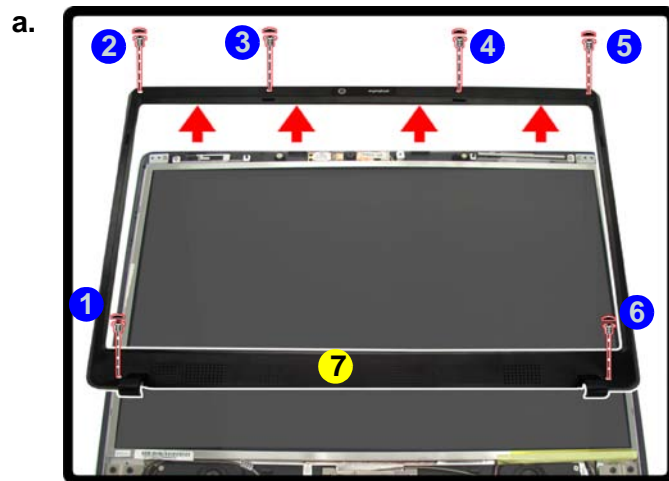




Figure 9
Inverter Board Removal

- 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.



Inverter Power Warning

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



7. LCD Front Panel
11. Inverter Board

- 6 Screws

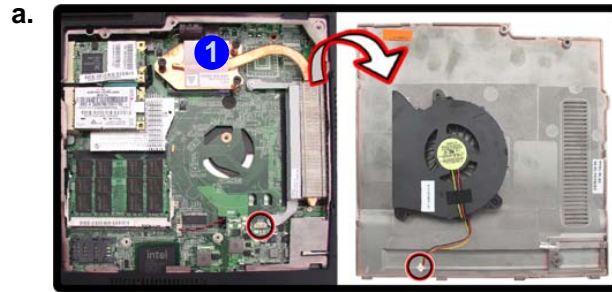
Removing and Installing the Processor

Processor Removal Procedure

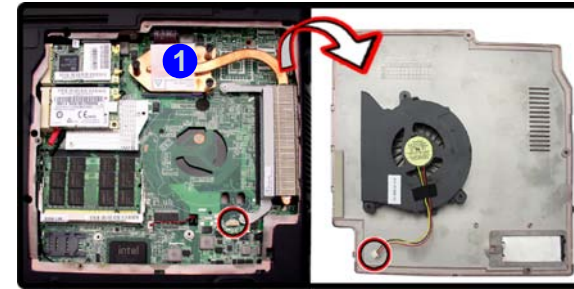
Figure 10
Processor Removal

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

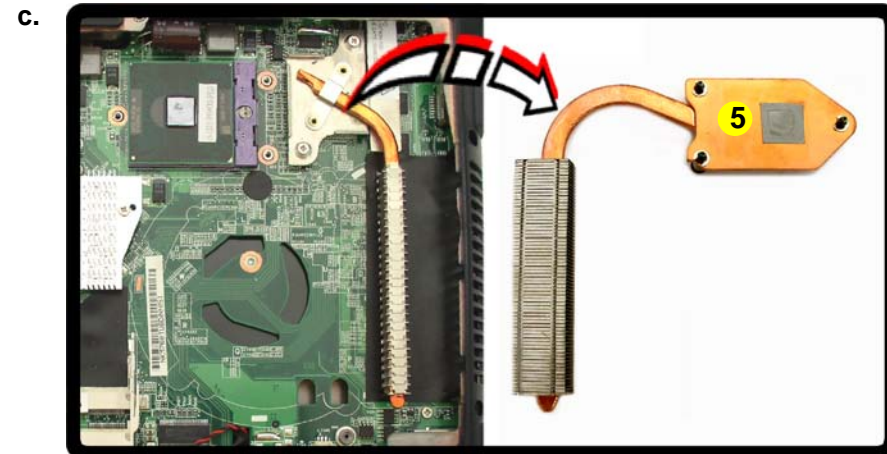
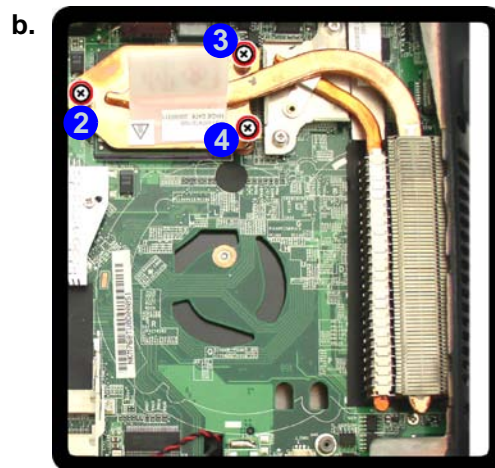
- Turn off the computer, remove the battery ([page 2 - 5](#)) and the component bay cover ([page 2 - 11](#)).
- The CPU heat sink will be visible at point 1 on the mainboard.
- Remove screws 2 - 4 ([Figure 10b](#)) from the heat sink in the order indicated.
- Carefully lift up the heat sink 5 ([Figure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



M740TG/M748TG-C



M765TG/W765TG



5. Heat Sink

- 3 Screws


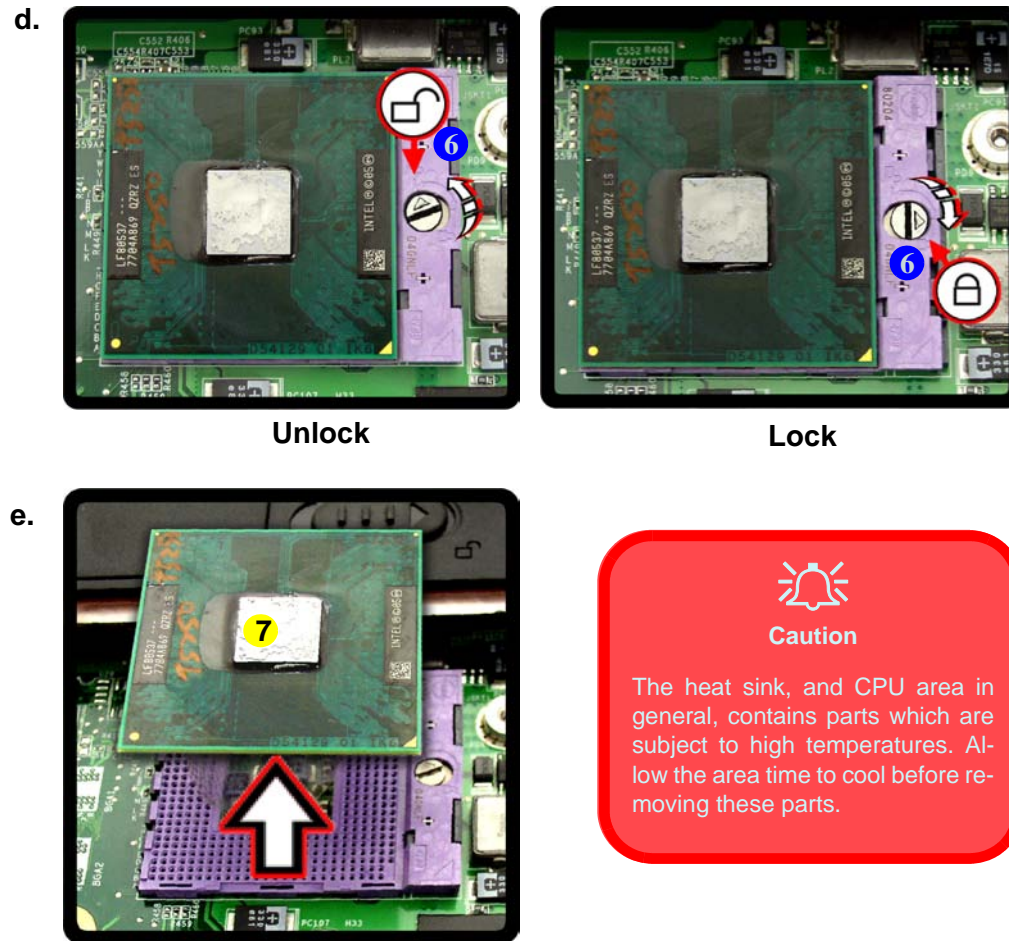
5. Turn the release latch **6** towards the unlock symbol , to release the CPU (*Figure 11a*).
6. Carefully (it may be hot) lift the CPU **7** up out of the socket (*Figure 11b*).
7. See [page 2 - 16](#) for information on inserting a new CPU.
8. When re-inserting the CPU, pay careful attention to the 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.




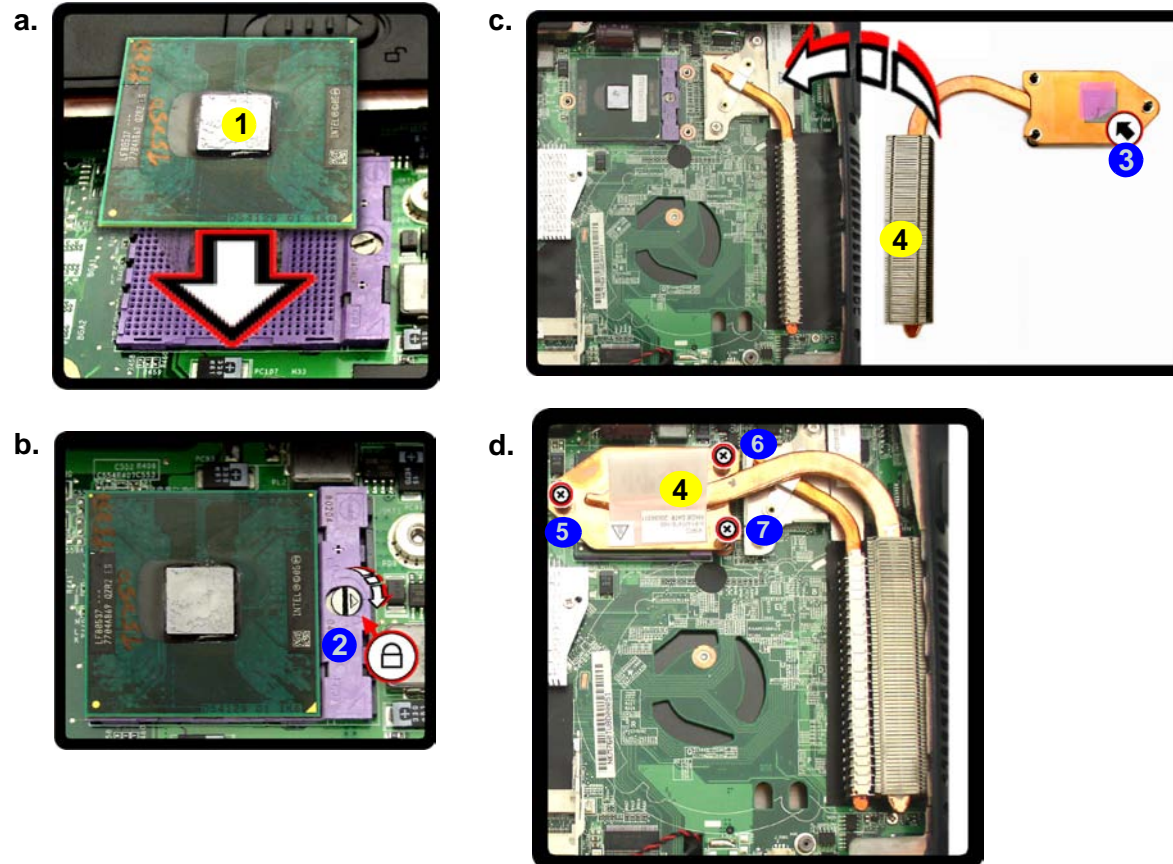
Disassembly



Figure 12
Processor Installation

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

Processor Installation Procedure

1. 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*).
2. **Remove the sticker **3**** (*Figure 12c*) from the heat sink.
3. Insert the heat sink **4** as indicated in *Figure 12c*.
4. Tighten screws **5** - **7** in the order indicated on the label.
5. Replace the component bay cover and tighten the screws (*page 2 - 14*).

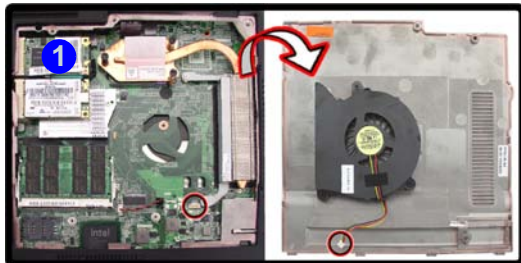


-  1. CPU
-  4. Heat Sink
- 3 Screws

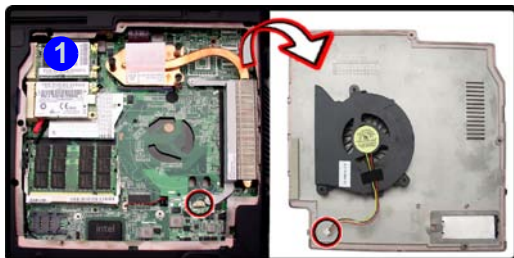
Removing the Wireless LAN Module

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. M740TG/M748TG-C



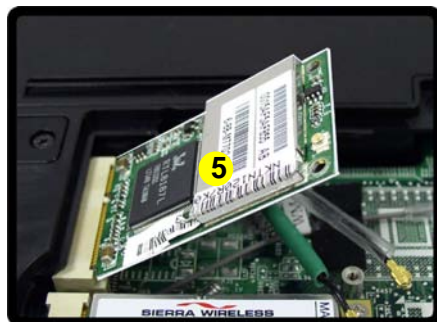
M765TG/W765TG



b.



c.



d.

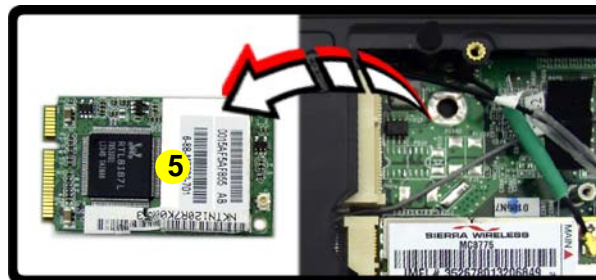



Figure 13
**Wireless LAN
Module Removal**

- 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

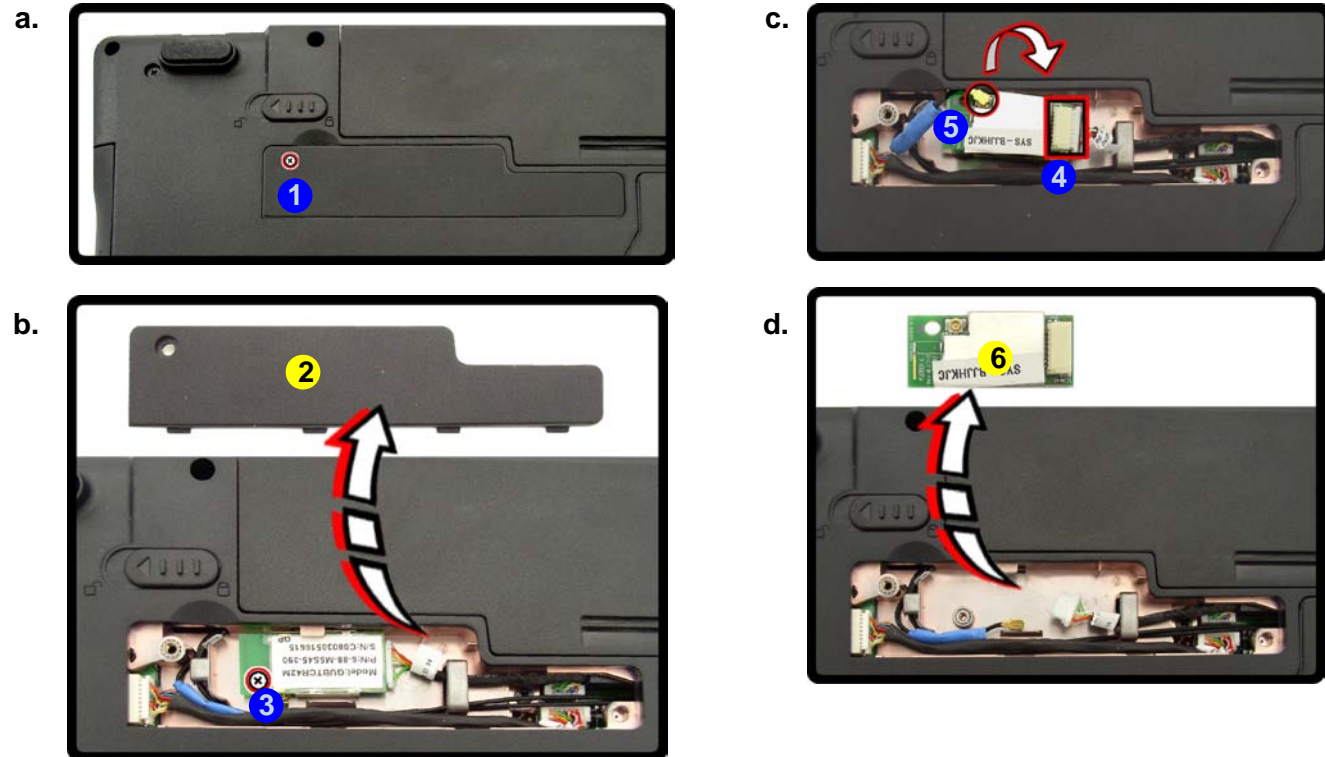
Disassembly

Figure 14
**Bluetooth Module
Removal**

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

Removing the Bluetooth Module

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

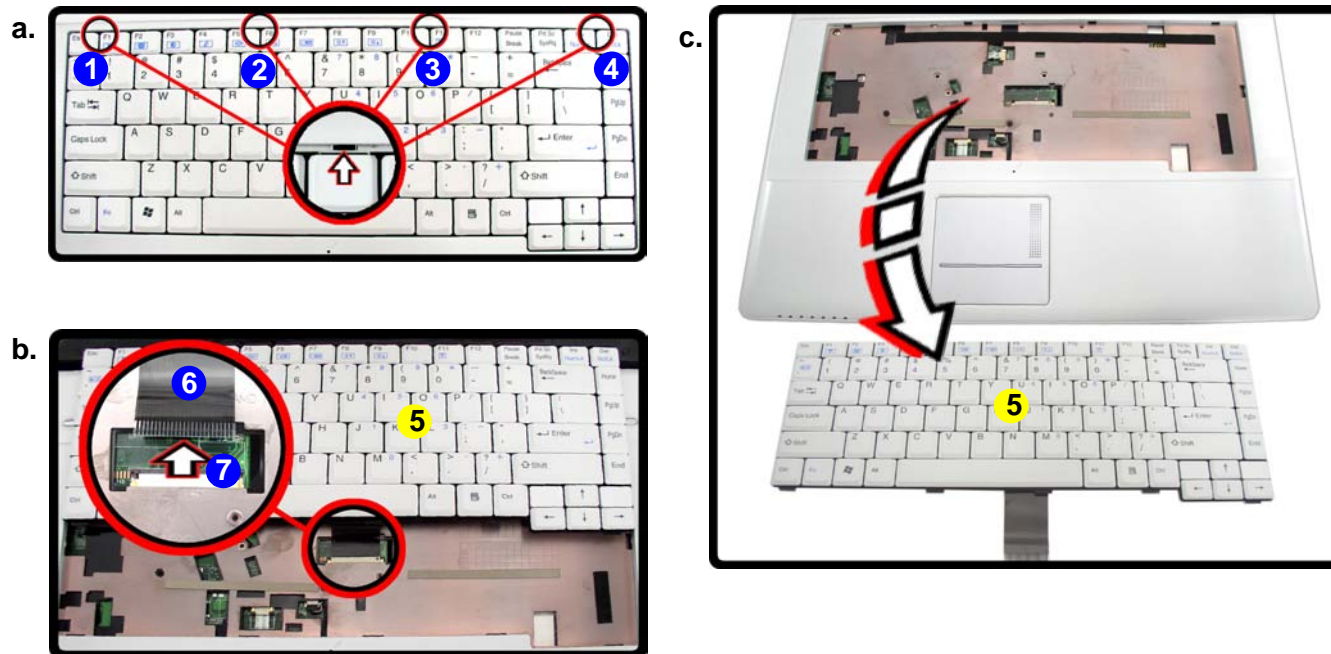


Figure 15
Keyboard Removal

- 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

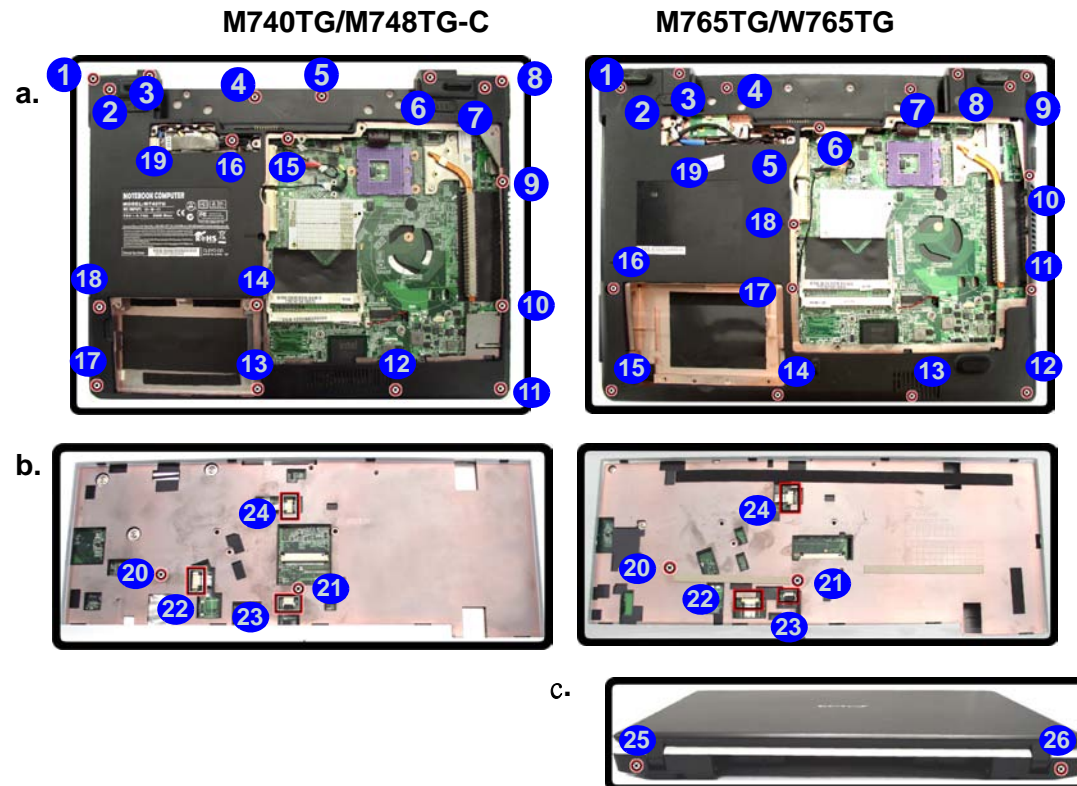
Figure 16

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 M765TG only** - remove screws **25** - **26** ([Figure 17c](#)) from the rear of the computer.



- 20 Screws (M740TG/M748TGC)/
22 Screws (M765TG/W765TG)

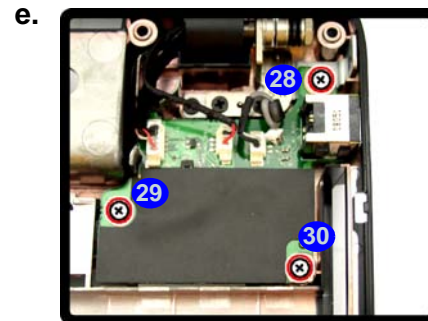
5. Carefully lift the top case **27** up and off the computer (*Figure 17d*).
6. Remove screws **28** - **30** (*Figure 17e*) from the computer.
7. Remove screws **31** - **32** (*Figure 17f*) from the modem module.
8. Lift the modem up and separate the modem from the connector **33**.
9. Lift the modem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

Figure 17
Modem Removal
(cont'd.)

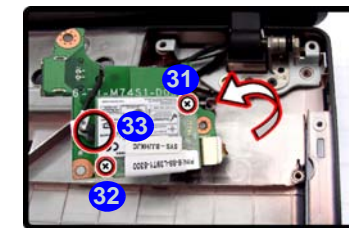
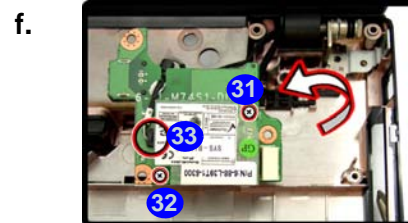
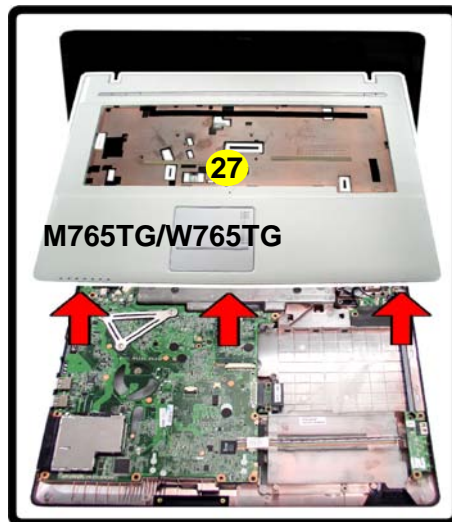
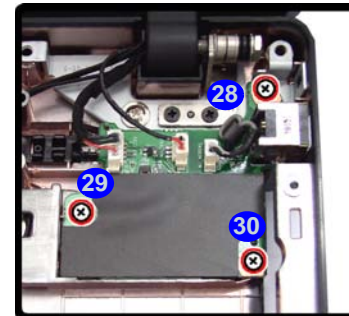
- d. Lift the cover off the computer.
- e. Remove the screws.
- f. Remove the screws and disconnect the connector.
- g. Lift the modem out.



M740TG/M748TG-C



M765TG/W765TG



27. Top Case
34. Modem

- 5 Screws

Appendix A: Part Lists

This appendix breaks down the *M740TG/M748TG-C/M765TG/W765TG* 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	M740TG	M748TG-C	M765TG	W765TG
Top without Fingerprint	<i>page A - 3</i>	<i>page A - 4</i>	<i>page A - 8</i>	<i>page A - 12</i>
Bottom	<i>page A - 5</i>		<i>page A - 9</i>	<i>page A - 13</i>
LCD	<i>page A - 6</i>		<i>page A - 10</i>	<i>page A - 14</i>
DVD-Dual Drive	<i>page A - 7</i>		<i>page A - 11</i>	<i>page A - 15</i>

Top without Fingerprint (M740TG)

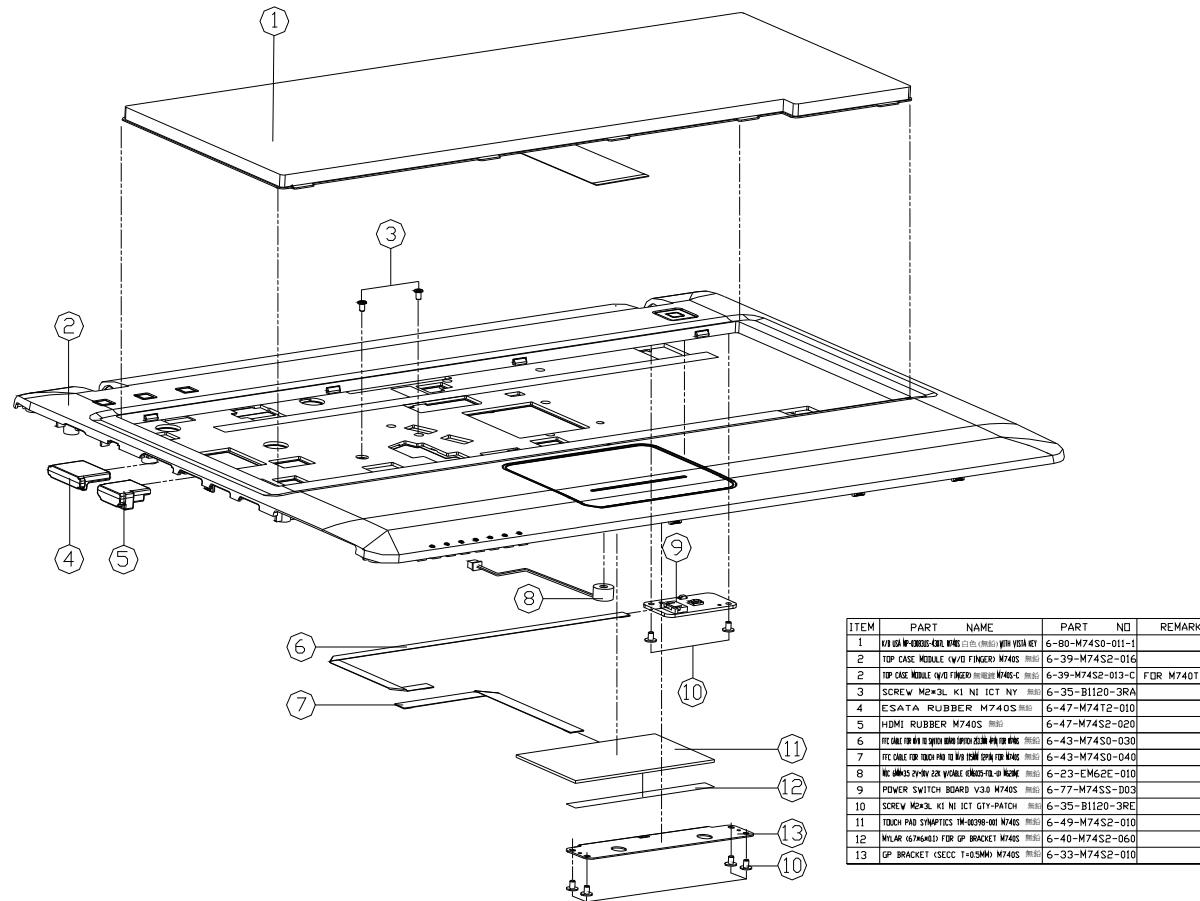
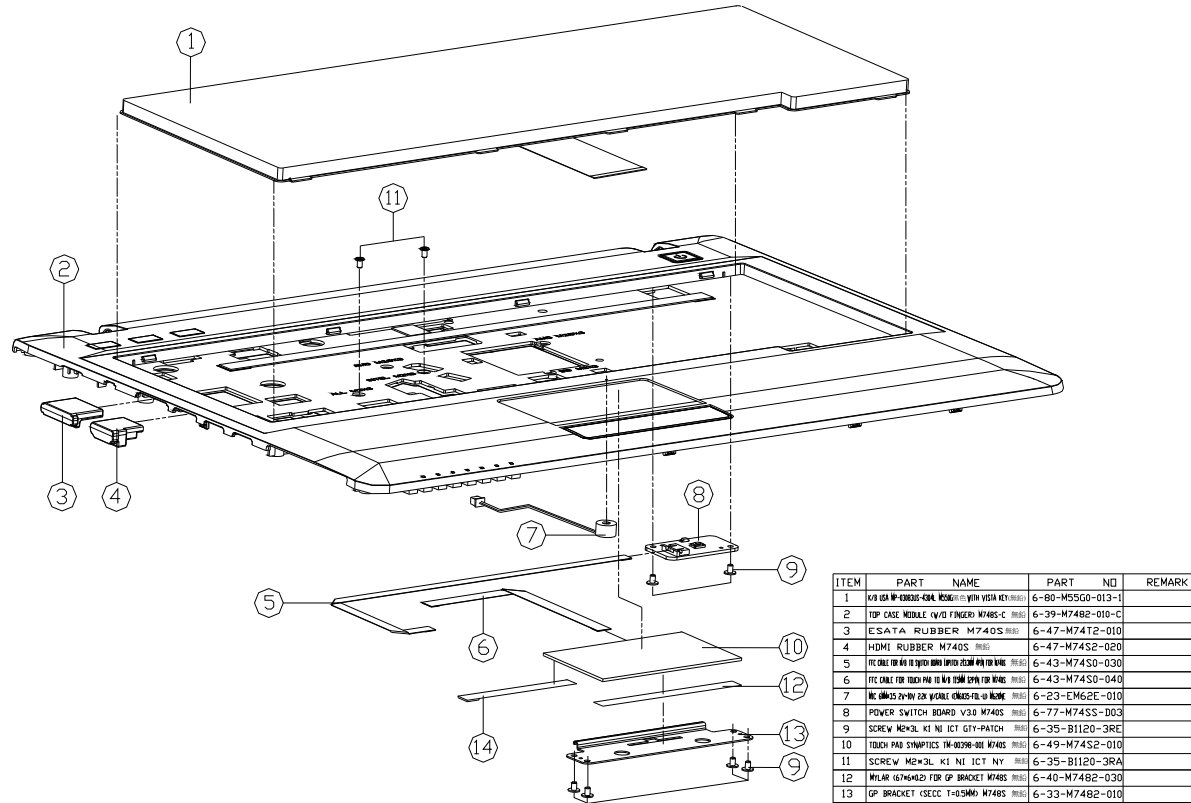


Figure A - 1
Top without
Fingerprint
(M740TG)

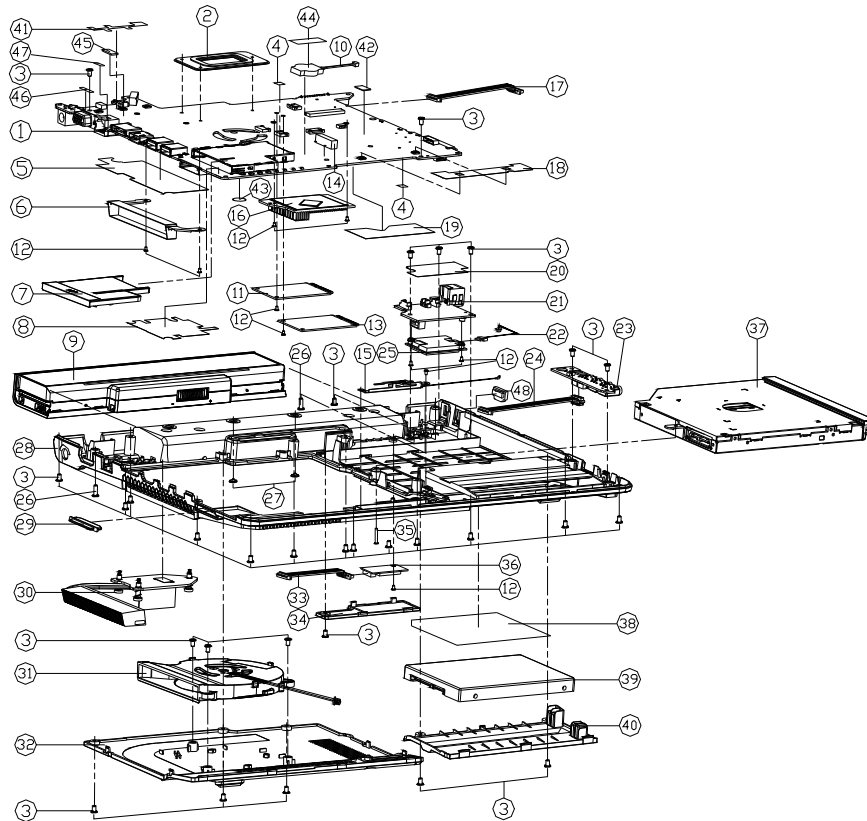
ITEM	PART NAME	PART NO	REMARK
1	TOP CASE MODULE (w/O FINGER) M740S	6-80-M7450-011-1	
2	TOP CASE MODULE (w/O FINGER) M740S	6-39-M7452-016	
3	TOP CASE MODULE (w/O FINGER) M740S	6-39-M7452-013-C	FOR M740T-C
4	ESATA RUBBER M740S	6-35-B1120-3RA	
5	HDMI RUBBER M740S	6-47-M74T2-010	
6	ITC CASE FOR OH TO OPEN WHEN OPENED WITH KEY	6-43-M7450-030	
7	ITC CASE FOR TOUCH PAD TO BE OPENED WITH KEY	6-43-M7450-040	
8	W/ 0.4x3.2mm 22K VISIBLE CONDUCTIVE FILM	6-23-EM62E-010	
9	POWER SWITCH BOARD V3.0 M740S	6-77-M745S-DO3	
10	SCREW M2x3L KI NI ICT GTY-PATCH	6-35-B1120-3RE	
11	TOUCH PAD SYMPTICS TM-80290-001 M740S	6-49-M7452-010	
12	NOLAR 16764M10 FTR GP BRACKET M740S	6-40-M7452-060	
13	GP BRACKET (SECC T+0.5MM) M740S	6-33-M7452-010	

Top without Fingerprint (M748TG-C)

Figure A - 2
Top without Fingerprint
(M748TG-C)



Bottom (M740TG/M748TG-C)



ITEM	PART NAME	PART NO	REMARK
1	MAIN BOARD V460W/3D M740TG	6-77-M74TG-004A	
1	MAIN BOARD V460W/3D M740TG	6-77-M74TG-004A-1	
2	GPU SUPPORT BRACKET SUS 43X30X10 M5041	6-33-M50NS-022	
3	SCREW M2.5X6 KI BK/Z ICT NY-TR	6-35-B6125-SRA	
4	PROTECT HB MYLAR FRB3 M740S	6-40-M74SS-020	
5	HEAT SINK MYLAR FRB3 120MM M740S	6-40-M74SN-013	
6	FAN AIR DUCT AL M740T	6-33-M74T3-011	
7	DUMMY NEW CARD PC-HBS INDRR	6-42-T12R3-011	
8	NEW CARD MYLAR FRB3 M740T	6-40-M74T3-010	
9	IMP 5 LI BATTERY 3200mAh 3.7V	6-87-M660S-4P4	(OPTION)
10	MAIN BOARD V460W/3D M740TG	6-23-22015-P2C	
11	MAIN BOARD V460W/3D M740TG	6-88-M5552-7000	(OPTION)
12	SCREW M2X3L KI ICT NY-TR	6-35-B1120-3RA	
13	WORM HORN HUB DATA MYLAR US3 375G	6-88-M810W-7900	(OPTION)
14	TOUCH PAD SPONGE 08X34X3 OR M740S	6-47-0019A-20A	
15	KEYPAD VIBRA ZAGU/36 PFA WR 27MM	6-23-M74T4-010	
16	MYLAR BRIDGE HEAT SINK AL 110X110X10	6-31-M747N-014-1	
17	HEAT SINK MYLAR BRIDGE	6-43-M74SD-011	
18	FINGER BOARD MYLAR FRB3 M740S	6-40-M74SS-011	
19	DDR RAM MYLAR FRB3 M740T	6-40-M74T5-010	
20	MIC MYLAR FRB3 110 5000M M740S	6-40-M74SU-011	
21	MULTI I/O BOARD V3.0 M740S	6-77-M74S1-D03	
22	GPU COOLING BRACKET FOR GPU	6-43-M74SU-011-1	
23	MOUSE JACK & USB BOARD 120M M740S	6-77-M74SS-003A	
24	GPU COOLING BRACKET FOR GPU	6-43-M74SD-021	
25	MAIN BOARD V460W/3D M740TG	6-88-L3911-5301	(OPTION)
26	SCREW M2.5X6 KI BK/Z ICT NY-TR	6-35-B6125-BR0	
27	SCREW M2X3L KI BK/Z ICT NY-TR	6-35-B6120-PRE	
28	BOTTOM CASE MODULE M740S	6-39-M74S3-010	FOR M740TG
29	BOTTOM CASE MODULE M740S-C	6-39-M74S3-010-C	FOR M748TG-C
29	MSDC CARD READER RUBBER	6-47-M5D0B-010	
30	GPU THERMAL MODULE AL M740S	6-31-M74T5-101-1	
31	FAN MODULE M740S	6-31-M74SS-102-1	
32	GPU COVER MODULE FOR GPU	6-42-M74SS-010-PI	
33	GPU COOLING BRACKET FOR GPU	6-43-M74S3-010	(OPTION)
34	ALUMINUM COVER PLATE/SHIELD	6-42-M74S3-010	FOR M740TG
34	ALUMINUM COVER PLATE/SHIELD	6-42-M74S3-010-C	FOR M748TG-C
35	SCREW M2X3L KI BK/Z ICT NY-TR	6-35-B6120-100	
36	ALUMINUM KEY BRACKET	6-88-M73T5-3900	(OPTION)
37	SLIM FINGER MULTI KEY BOARD M740S	6-79-M7401000-010	(OPTION)
38	PRODUCT LABEL FOR M740T	6-45-M74T3-001-1	FOR M740TG
38	PRODUCT LABEL M748T	6-45-M748T-010	FOR M748TG-C
39	W/D HDD ASSY M740S	6-79-M740S00-010	
40	HDD COVER MODULE M740S	6-42-M74S-J-103	FOR M740TG
40	HDD COVER MODULE M740S-C	6-42-M74S-J-101-C	FOR M748TG-C
41	MYLAR BRIDGE HEAT SINK 120MM M740S	6-40-M74TS-021	
42	MIC MYLAR BRIDGE M740S	6-40-M74SS-031	
43	MYLAR DIO FRB3 M740S	6-40-M7650-010	
44	TAPE MYLAR (40)MYLAR M550J	6-40-M55J2-010	
45	HB TOP RUBBER SILICONE M740T	6-47-M74T5-030	
46	HEAT SINK BRIDGE HEAT SINK M740S	6-47-M74T5-010	
47	MOUSE JACK & USB BOARD FOR WA M740T	6-47-M74T5-020	
48	RUBBER FOR KEYBOARD M740S	6-47-M66NU-010	

Figure A - 3
Bottom (M740TG/
M748TG-C)

A.Part Lists

LCD (M740TG/M748TG-C)

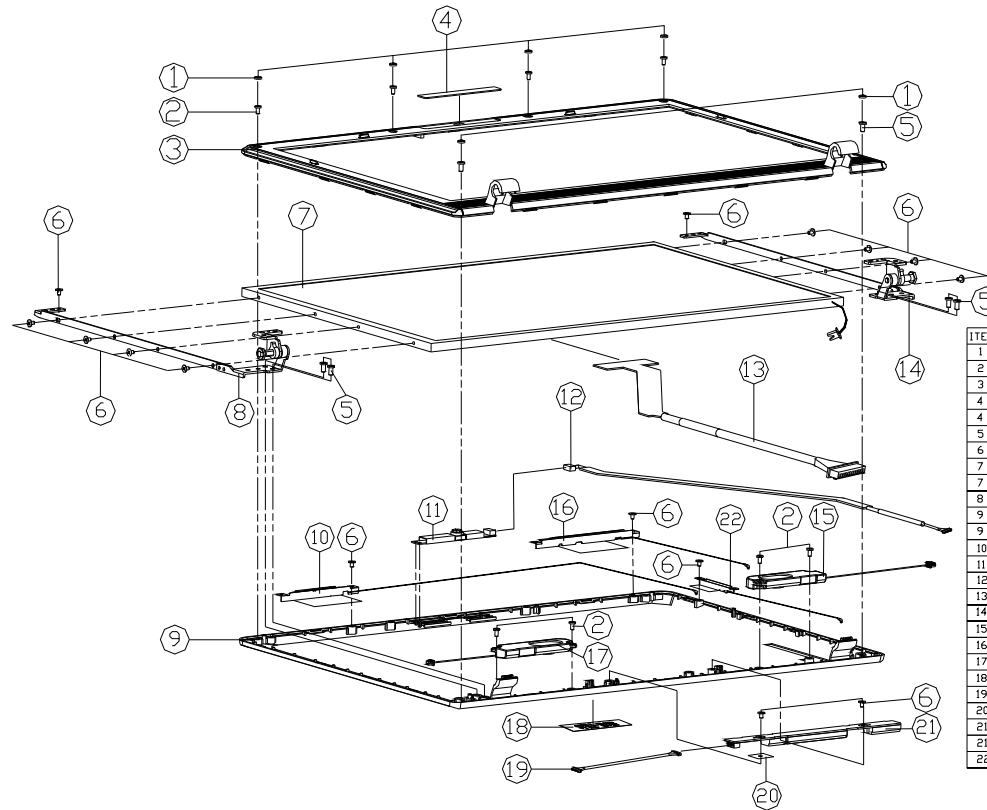


Figure A - 4
LCD (M740TG/
M748TG-C)

ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER SCREW HOLE RUBBER W/20S	6-47-M72SI-021	
2	SCREW W/SL 1.2X ICT 6TY-PATCH (1-88 0-60)	6-35-C6120-4RB	
3	LCD FRONT COVER MODULE M740S	6-39-M74SI-012-2	
4	CCD LINES (PMMA) M740S	6-42-M74SI-010	FOR CCD
4	CCD LINES (FR700) M740S	6-42-M74SI-020	FOR W/O CCD
5	SCREW M2.5XSL KI BK/2 ICT NY	6-35-B6125-3RA	
6	SCREW M2.5XSL KI NE ICT 6TY-PATCH	6-35-B1120-3RE	
7	LCD RT VISA OF CLAMPT/BSGLARE THD 3.5MM	6-50-J8255-X00	<OPTION>
7	LCD RT VISA OF CLAMPT/BSGLARE THD 3.5MM	6-50-J8255-C02	<OPTION>
8	LCD HINGE L (SECC+SK7) M740S	6-33-M74SI-022	
9	LCD BACK COVER MODULE M740S	6-39-M74SI-021	FOR M740TG
9	LCD BACK COVER MODULE M748S-C	6-39-M7481-020-C	FOR M748TG-C
10	ANTENNA W/SL 24G/25G PIFA W/ 25MM	6-23-7M74S-020	
11	UVIC CAMERA BRN FOR BRN/45T-030 1.5M	6-88-M810C-4900	<OPTION>
12	WIRE CABLE SPIN W/4 TO CCD 2742SM MODULE	6-43-M74ST-012	FOR CCD
13	WIRE CABLE SPIN W/4 TO LCD 2742SM	6-43-M74SI-012	
14	LCD HINGE R (SECC+SK7) M740S	6-33-M74SI-012	
15	SPK CABLE 7MM 1.5W BY 0720V/45M-D P-SIDE	6-23-5M74S-030	
16	ANTENNA W/SL 3G PIFA 45MM	6-23-7M74S-010	<OPTION>
17	SPK CABLE 7MM 1.5W BY 0720V/45M-D 1-FLX	6-23-5M74S-043	
18	STYLE-NOTE (1-15) LDCD W/LED BRN/45T-030	6-45-M74SI-012-1	
19	WIRE CABLE FOR W/4 TO INVERTER ES63M 6 PIN W/4S	6-43-M74SR-011	
20	INVERTER W/SLAR (FR83)W/10N (SOLD) W/4S	6-40-M76SI-010	
21	AUTOT HOLE IN SLIDE (1-4) 45MM/45MM-D 1-FLX	6-76-M66GR-010	<OPTION>
21	AUTOT HOLE IN SLIDE (1-4) 45MM/45MM-D 1-FLX	6-76-M66GR-011	<OPTION>
22	ANTENNA BLUE/25G 24G PIFA BY 25MM	6-23-7M74S-030	<OPTION>

DVD-Dual Drive (M740TG/M748TG-C)

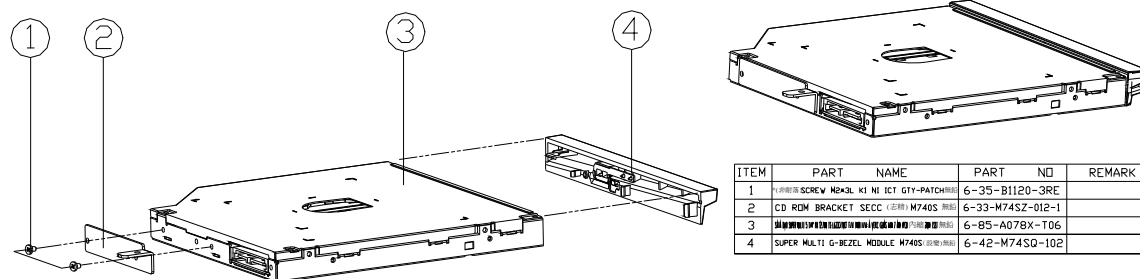
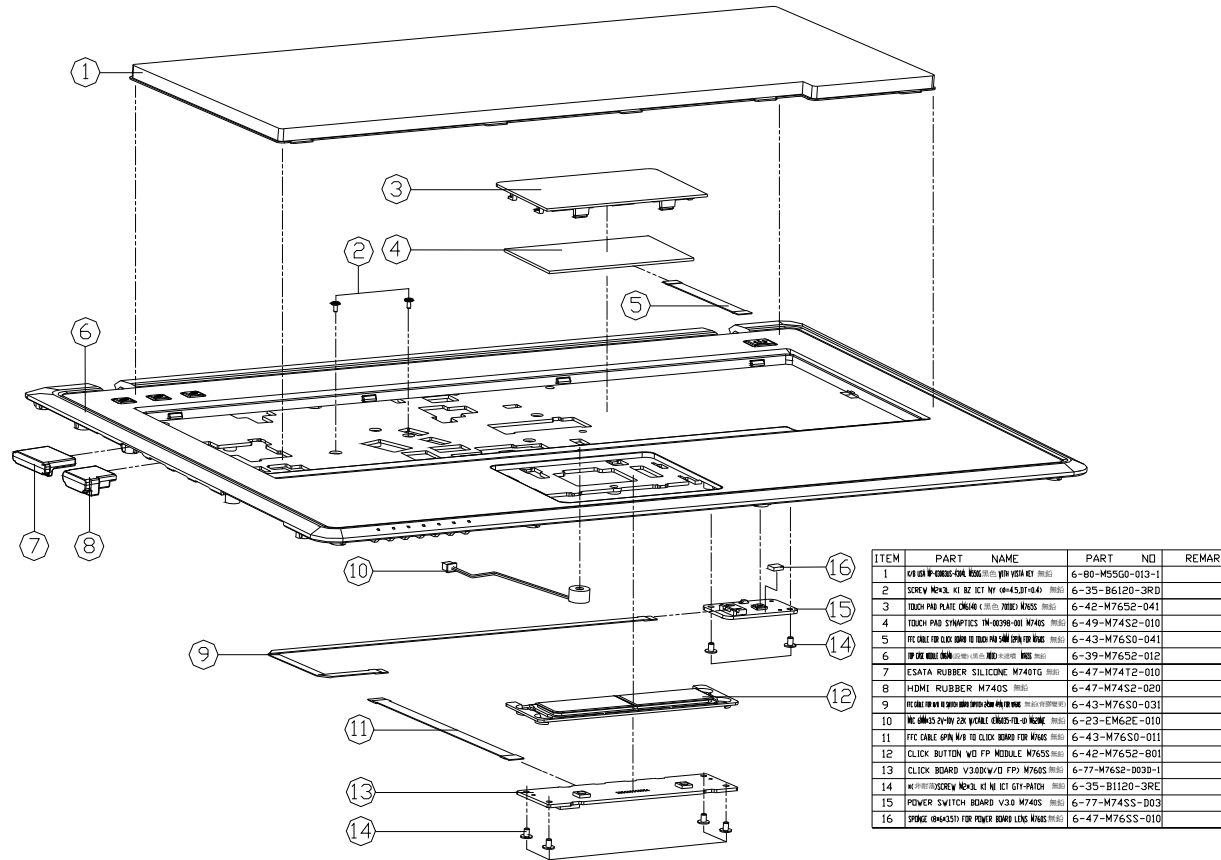


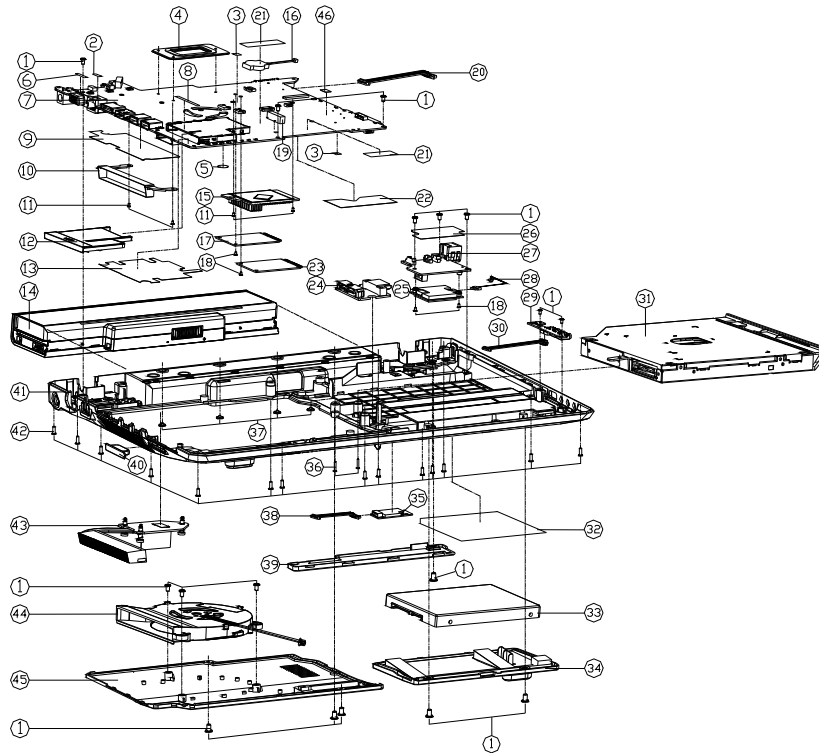
Figure A - 5
DVD-Dual Drive
(M740TG/
M748TG-C)

Top without Fingerprint (M765TG)

Figure A - 6
Top without Fingerprint
(M765TG)



Bottom (M765TG)



ITEM	PART NAME	PART NO	REMARK
1	SCREW M2.5X5, KI BRZ/ ICT NY	6-35-86125-3RA	
2	PROTECT MB MYLAR FR83 M7405	6-47-M74TS-020	
3	PROTECT MB MYLAR FR83 M7405	6-40-M74SS-020	
4	CPU SUPPORT BRACKET S/S 43X31/2 W/SH	6-33-M55NS-022	
5	MYLAR DIO FR83 M7605	6-40-M76SD-010	
6	SCREW M2.5X5, KI BRZ/ ICT NY	6-47-M74TS-010	
7	MAIN BOARD V4.0X3.0 V3.0 M760TG	6-77-M76TG-06A4	
8	MAIN BOARD V4.0X3.0 V3.0 M760TG	6-77-M76TG-06A4	
9	HEAT SINK MYLAR FR83 M7405	6-40-M74SN-013	
10	FAN AIR DUCT AL M740T	6-33-M74T3-011	
11	SCREW M2.5X5, KI NI ICT NY	6-35-B1120-3RA	
12	LANNY NEW CARD PC-CARS TNEOR	6-42-T12R3-011	
13	NEW CARD MYLAR FR83 M740T	6-40-M74T3-011	
14	W/D 3.5" HDD ASS'Y M7605	6-87-M66DS-4P4	(OPTION)
15	DDO BRIDGE BOARD V3.0 M760TG	6-31-M76TG-011	
16	DDO BRIDGE BOARD V3.0 M760TG	6-23-02015-P2C	
17	DDO BRIDGE BOARD V3.0 M760TG	6-88-M55S2-7000	(OPTION)
18	W/D 3.5" HDD ASS'Y M7605	6-35-B1120-3RD	
19	TIDEN P/B SPRING (20X45) CR M405	6-47-0019A-20A	
20	W/D 3.5" HDD ASS'Y M7605	6-43-M76SD-022	
21	TAPE MYLAR (40)MYLAR M050J	6-40-M55J2-010	
22	DDR RAM MYLAR FR83 M740T	6-40-M74TS-010	
23	W/D 3.5" HDD ASS'Y M7605	6-88-M66DS-7905	(OPTION)
24	DDO BRIDGE BOARD V3.0 M760TG	6-77-M76TN-003	
25	DDO BRIDGE BOARD V3.0 M760TG	6-88-L39T1-S301	(OPTION)
26	W/D 3.5" HDD ASS'Y M7605	6-40-M74SU-011	
27	MULTI I/O BOARD V3.0 M7405	6-77-M74SI-D03	
28	W/D 3.5" HDD ASS'Y M7605	6-43-M76SD-052	
29	PHONE JACK & USB BOARD V3.0A M7405	6-77-M74SA-D03A	
30	W/D 3.5" HDD ASS'Y M7605	6-43-M74SU-011	
31	W/D 3.5" HDD ASS'Y M7605	6-79-M76T500-010	(OPTION)
32	PRODUCT LABEL FOR M760T	6-45-M76T3-010	
32	PRODUCT LABEL FOR M551	6-45-M76S1-010-1	
33	W/D HDD ASS'Y M7605	6-79-M76SD00-010	
34	HDD COVER MODULE M7605	6-42-M76SJ-102	
35	W/D HDD ASS'Y M7605	6-88-M73TS-3900	(OPTION)
36	SCREW M2.5X5, KI BRZ/ ICT NY	6-35-86120-8RD	
37	SCREW M2.5X5, KI BRZ/ ICT NY	6-35-86120-2RC	
38	W/D 3.5" HDD ASS'Y M7605	6-43-M76SB-011	(OPTION)
39	BT COVER MODULE M7605	6-42-M76SB-102	
40	W/D 3.5" HDD ASS'Y M7605	6-47-M76SB-010	
41	BOTTOM CASE MODULE M7605	6-39-M76S3-013	
42	SCREW M2.5X5, KI BRZ/ ICT NY	6-35-86125-8RD	
43	CPU THE SHIELD MODULE M740T	6-31-M74TS-01-1	
44	FAN MODULE M7405	6-31-M74S-102-1	
45	CPU COVER MODULE M7605	6-42-M76SS-102	
46	MC MYLAR FR83 M7405	6-40-M74SS-031	

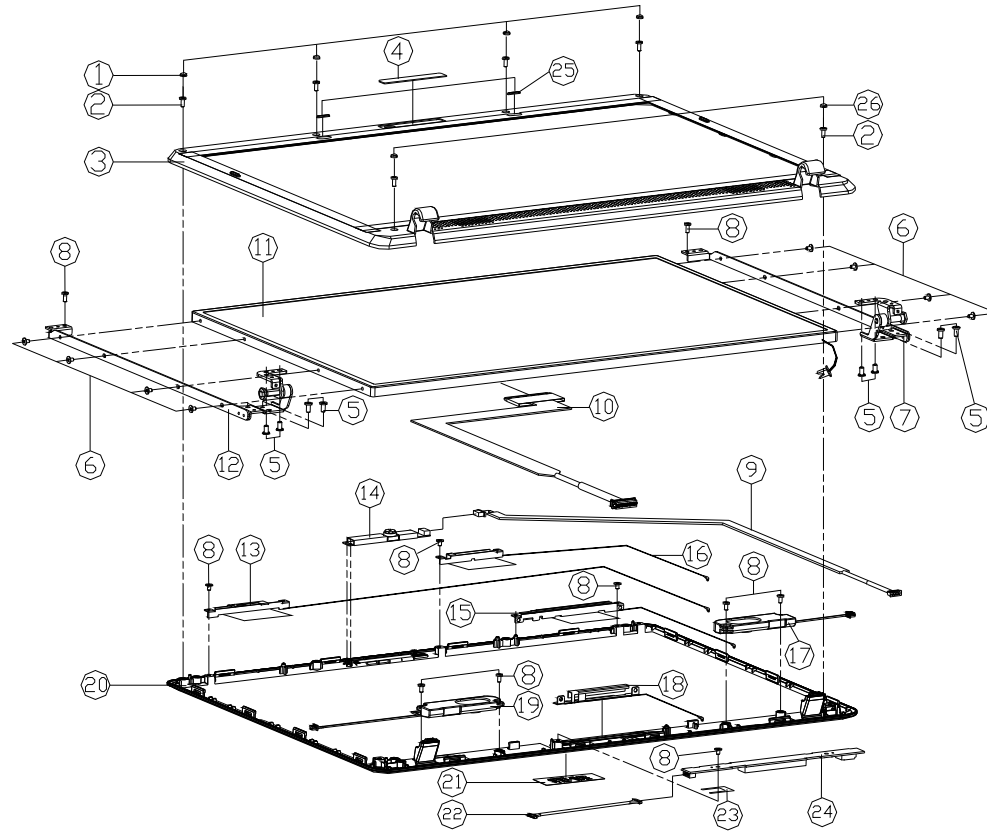
Figure A - 7
Bottom (M765TG)

A.Part Lists

Part Lists

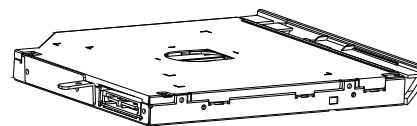
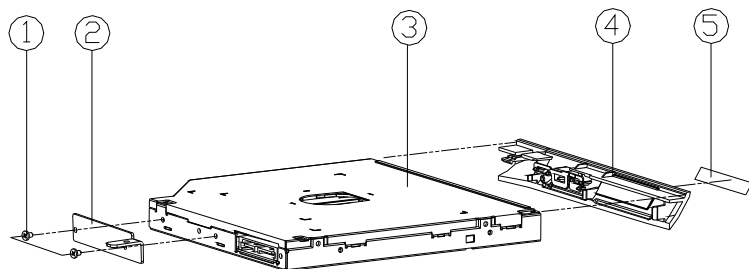
LCD (M765TG)

Figure A - 8
LCD (M765TG)



ITEM	PART NAME	PART NO	REMARK
1	LCD FRONT COVER RUBBER SILICON BUSH 1.5MM W/ING	6-47-M765SI-010	
2	SCREW NEXUS KIT168 D=4.0 BK/Z ICT NY	6-35-B6120-5R0	
3	LCD FRONT COVER MODULE M765S	6-39-M765SI-011-2	
4	LCD FRONT COVER MODULE M765S	6-39-M765SI-011-1	
4	CCD COSMETIC PANDA T=0.5MM M765S	6-42-M765SI-031	W/ CCD
4	W/D CCD COSMETIC QST PANDA M765S	6-42-M765SI-040	W/D CCD
5	SCREW M2.5X5L KI BK/Z ICT NY	6-35-B6125-5RA	
6	SCREW NEXUS KIT168 D=4.0 BK/Z ICT NY	6-35-B1120-3RE	
7	LCD HINGE-R SECC M765S	6-33-M765SI-011-1	
8	SCREW IN CT W/ING 2.0X1.5MM	6-35-C1120-4RB	
9	WIRE CABLE SPIN W/ TO CCD ZIGM MODULE FOR W/ING	6-43-M765SI-022	FOR CCD
10	WIRE CABLE SPIN W/ TO CCD ZIGM FOR W/ING	6-43-M765SI-011	
11	LCD T&W VIGRA SAMPLING LENS(5415)-M0	6-50-L8265-M01	
12	LCD HINGE-L SECC M765S	6-33-M765SI-021-1	
13	ANTENNA W/AN 2463236/PS PIFA W/AN (L&R)	6-23-7M765-010	
14	UVIC CAMERA BUSH FOR DISMOUNT-030 1.5MM W/ING	6-88-M810C-4900	
15	ANTENNA W/AN 2463236/PS PIFA W/AN	6-23-7M765-040	(OPTION)
16	ANTENNA W/AN 2463236/PS PIFA W/AN	6-23-7M765-051	(OPTION)
17	SPIN CABLE T&W 1.5W BY OPERING(040)-R-S W/ING	6-23-5M74S-030	
18	ANTENNA W/AN 2463236/PS PIFA W/AN	6-23-7M765-021	(OPTION)
19	SPIN CABLE T&W 1.5W BY OPERING(040)-L-T&W	6-23-5M74S-043	
20	LCD BACK COVER MODULE M765S	6-39-M765SI-021	
21	SCREW IN CT W/ING 2.0X1.5MM	6-45-M74SI-012-1	
22	WIRE CABLE FOR W/ TO INVERTER TRANS & P&W W/ING	6-43-M74SR-011	
23	INVERTER W/AN 40-160WATTEN 0300 M765S	6-40-M765SI-010	
24	INVERTER W/AN 40-160WATTEN 0300 M765S	6-76-M660R-011	(OPTION)
25	LCD RUBBER FOR FRONT COVER SILICONE BUSH W/ING	6-47-M67UI-030	
26	LCD FRONT COVER RUBBER SILICON BUSH 1.5MM W/ING	6-47-M765SI-030	

DVD-Dual Drive (M765TG)

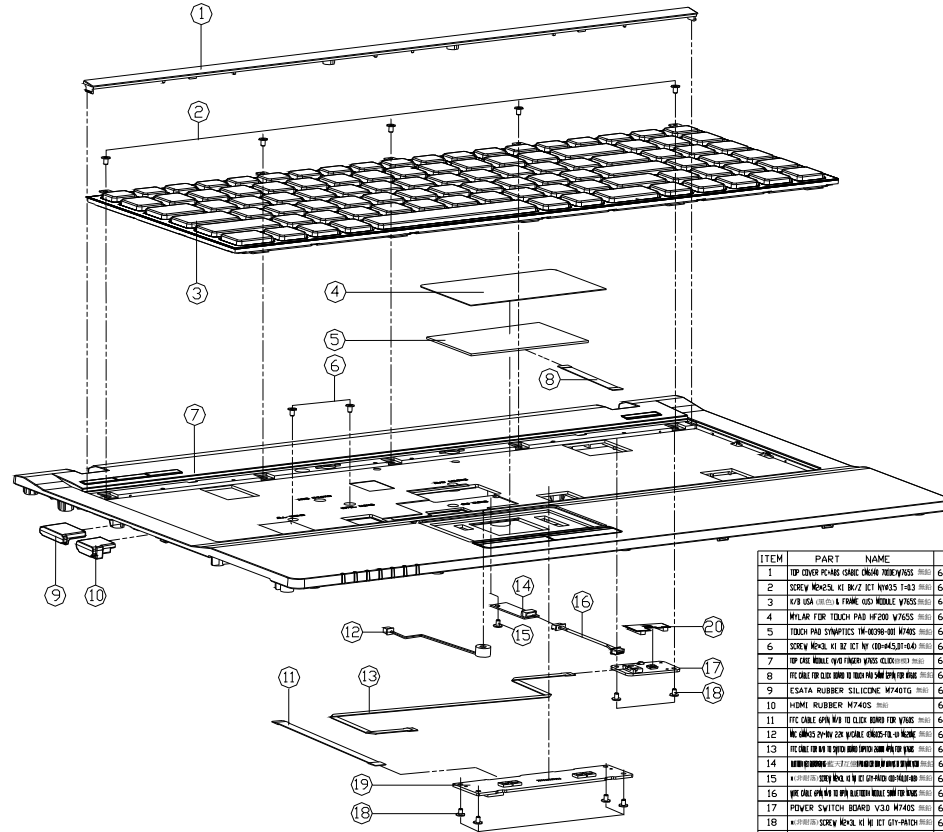


ITEM	PART NAME	PART NO	REMARK
1	ODD BEZEL LABEL SUPER MULTI M765S (178)(1)(100)	6-35-B1120-3RD	
2	CD ROM BRACKET SECC (218)(1) M740S (100)	6-33-M74SZ-012-1	
3	SATA DVD SUPER MULTI 5 1/4" BK 12.7MM 15.4 (100)	6-85-A078X-T06	
4	ODD BEZEL MODULE (100) M765S (107)(1)(100)	6-42-M76SZ-103	
5	ODD BEZEL LABEL SUPER MULTI M765S (107)(1)(100)	6-45-M76SZ-011-1	

Figure A - 9
DVD-Dual Drive
(M765TG)

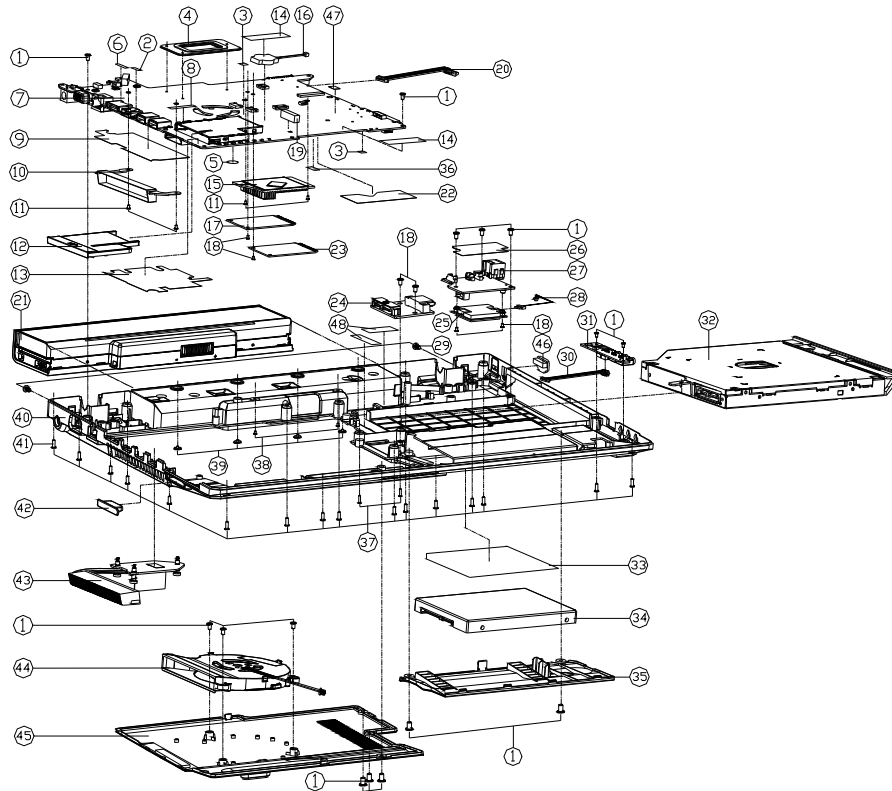
Top without Fingerprint (W765TG)

Figure A - 10
Top without
Fingerprint
(W765TG)



ITEM	PART NAME	PART NO	REMARK
1	TOP COVER PC-ME CASE CHAL THERM/PA66	6-42-W7652-080	
2	SCREW M02xL KI BK/2 ICT NY635 1x3	6-35-B6120-2RB	
3	K/B USA (CHAL) FRAME GSK MODLE W765S	6-79-W765500K-010	
4	MYLAR FOR TOUCH PAD HF200 W765S	6-40-W7652-021	
5	TOUCH PAD SYNAPTICS TM-0029B-001 W765S	6-49-W7452-010	
6	SCREW M0xL KI BK ICT NY 00-045,817-040	6-35-B6120-3RD	
7	TOP CASE MODLE QV0 FINGER PASS GLD00000	6-39-W7652-022	
8	PC CASE FOR CLICK BOARD KI THERM PA66 SPAL/TP PA66	6-43-W7650-041	
9	ESATA RUBBER SILICONE W740TG	6-47-W7412-010	
10	HOME RUBBER W740S	6-47-W7452-020	
11	PC CABLE SPIN W76 TO CLICK BOARD FOR W765S	6-43-W7650-020-1	
12	PC CABLE SPIN W76 TO CLICK BOARD FOR W765S	6-23-EM62E-010	
13	PC CASE FOR W76 TO CLICK BOARD FOR W765S	6-43-W7650-010-1	
14	MEMO BOARD FOR W76 TO CLICK BOARD FOR W765S	6-88-W7315-3900	(OPTION)
15	MEMO BOARD FOR W76 TO CLICK BOARD FOR W765S	6-35-B1120-3RD	
16	MEMO BOARD FOR W76 TO CLICK BOARD FOR W765S	6-43-W765B-011	(OPTION)
17	POWER SWITCH BOARD V30 W740S	6-77-W745S-003	
18	SCREW M0xL KI BK ICT GY-PALD0	6-35-B1120-3RE	
19	CLICK BOARD V300 QV0 FFP W765S	6-77-W7652-0030-1	
20	AL FOIL MYLAR FOR POWER W765S	6-40-W7652-050	

Bottom (W765TG)



ITEM	PART	NAME	PART	NO	REMARK
1	SCREW	M2x4.5, K1 BRZ ICT NY	6-35	B6125-SRA	
2	HOUSING	FOR W765TG	6-47	W7475-020	
3	PRODUCT LABEL	FOR W765TG	6-40	W7455-020	
4	DRY SOCKET BRACKET	FOR CPU/IC	6-33	M55NS-022	
5	MYLAR	DIO FR83 W765S	6-40	W7650-010	
6	ESD MAT	FOR W765TG	6-47	W7475-010	
7	MAIN BOARD	V46M/V30 W765TG	6-77	W761G-004A	
8	HEAT SINK	FOR CPU W765TG	6-47	W7475-010	
9	HEAT SINK MYLAR	FOR CPU W765TG	6-40	W745N-013	
10	FAN AIR DUCT	AL W740T	6-33	M7413-011	
11	SCREW	M2x4.5, K1 NI ICT NY	6-35	B1120-3RA	
12	DUMMY NEW CARD PC-RAS	INSTR	6-42	T12R3-011	
13	KEY CARD MYLAR	FOR CPU W765TG	6-40	W7473-011	
14	TAPE MYLAR	FOR CPU W765TG	6-40	M55J2-010	
15	HEAT SINK MYLAR	FOR CPU W765TG	6-31	M747N-014-1	
16	HEAT SINK MYLAR	FOR CPU W765TG	6-23	22015-P2C	
17	HEAT SINK MYLAR	FOR CPU W765TG	6-88	M55S2-7000	(OPTION)
18	KEY CARD MYLAR	FOR CPU W765TG	6-35	B1120-3RD	
19	HEAT SINK MYLAR	FOR CPU W765TG	6-47	D019A-20A	
20	HEAT SINK MYLAR	FOR CPU W765TG	6-43	M7700-020	
21	HEAT SINK MYLAR	FOR CPU W765TG	6-87	M660S-4P4	(OPTION)
22	DIO BRIDGE	FR83 W740T	6-40	W7475-010	
23	MYLAR	FOR CPU W765TG	6-88	M810V-7900	(OPTION)
24	DIO BRIDGE	FR83 W740T	6-77	W760N-D01	(OPTION)
25	HEAT SINK MYLAR	FOR CPU W765TG	6-88	L3911-520	(OPTION)
26	HEAT SINK MYLAR	FOR CPU W765TG	6-40	W745J-011	
27	HEAT SINK MYLAR	FOR CPU W765TG	6-77	W7451-D03	
28	HEAT SINK MYLAR	FOR CPU W765TG	6-43	M745J-011-1	
29	SCREW	M2x4.5, K1 BRZ ICT NY	6-35	B6120-4RA	
30	HEAT SINK MYLAR	FOR CPU W765TG	6-43	W7650-020	
31	HEAT SINK MYLAR	FOR CPU W765TG	6-77	W745A-004A	
32	HEAT SINK MYLAR	FOR CPU W765TG	6-79	W7600-010	
33	PRODUCT LABEL	W765TG	6-45	W765T03-000	
34	W/O HDD ASS'Y	W765S	6-79	W76500J-000	
35	HDD COVER MODULE	FOR W765S	6-42	W765J-100	
36	HEAT SINK MYLAR	FOR CPU W765TG	6-40	W745J-010	
37	SCREW	M2x4.5, K1 BRZ ICT NY	6-35	B6120-BRD	
38	HEAT SINK MYLAR	FOR CPU W765TG	6-35	B6120-3RD	
39	SCREW	M2x4.5, K1 BRZ ICT NY	6-35	B6120-2RE	
40	HEAT SINK MYLAR	FOR CPU W765TG	6-39	W7653-013	
41	SCREW	M2x4.5, K1 BRZ ICT NY	6-35	B6125-BRD	
42	HEAT SINK MYLAR	FOR CPU W765TG	6-47	W7475-010	
43	HEAT SINK MYLAR	FOR CPU W765TG	6-31	M7475-101-1	
44	FAN MODULE	FOR W765S	6-31	W745S-102-1	
45	HEAT SINK MYLAR	FOR CPU W765TG	6-42	W765S-104	
46	HEAT SINK MYLAR	FOR CPU W765TG	6-47	M55J2-010	
47	HEAT SINK MYLAR	FOR CPU W765TG	6-40	W745S-031	
48	TAPE MYLAR	FOR CPU W765TG	6-40	M55J2-030	

Figure A - 11
Bottom (W765TG)

A.Part Lists

Part Lists

LCD (W765TG)

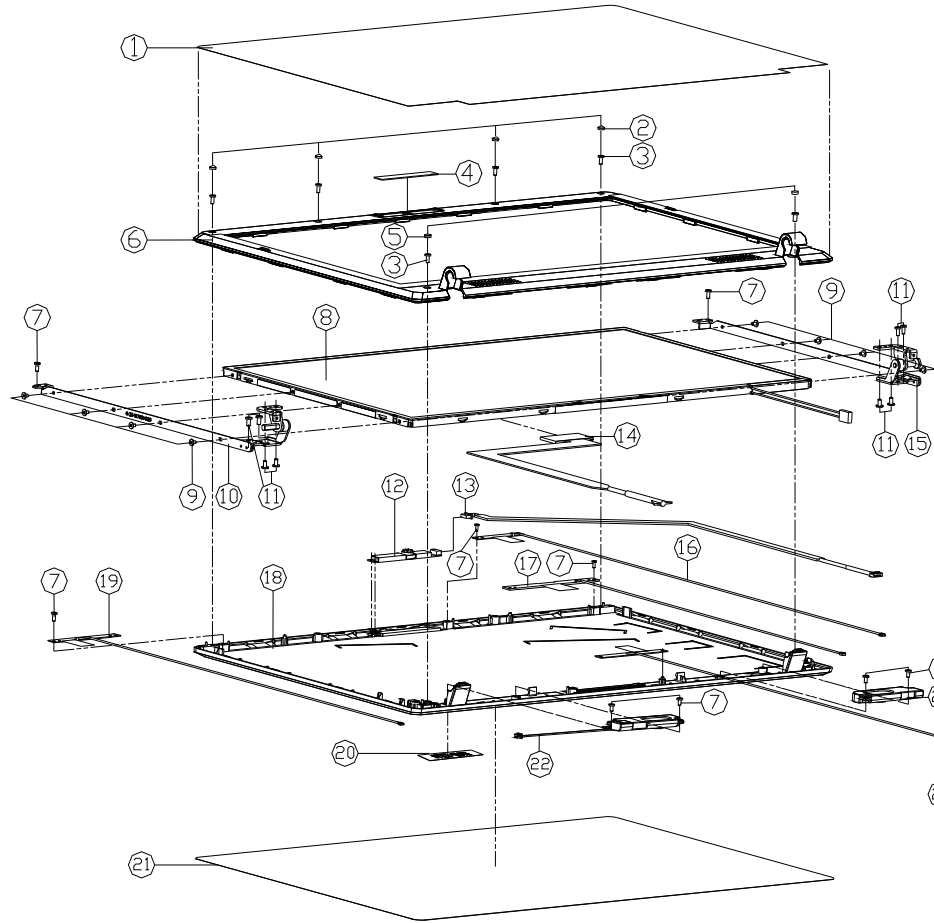
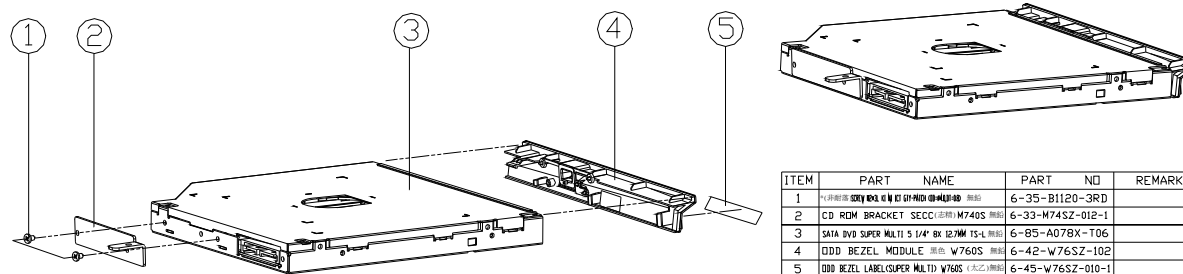


Figure A - 12
LCD (W765TG)

ITEM	PART NAME	PART NO	REMARK
1	LCD PROTECT FILM (PAPER) (300X5) W/MS	6-40-W765SI-041	
2	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-47-W765SI-050	
3	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-35-B6120-5R0	
4	CCD LINES (PMMA) (W/CCD) W765S	6-42-W765T-011	W/ CCD
5	CCD LINES (PMMA) (W/D CCD) W765S	6-42-W765T-020	W/D CCD
6	LCD FRONT COVER MODULE W/MS	6-47-W765SI-030	
7	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-39-W765SI-012	
8	LCD ISH NO INK/OLU BT565WH V1 GLAR	6-35-C1120-4R8	
9	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-50-L8155-V01	
10	LCD FRAME COVER RUBBER Gasket (1.5) (1.5) (1.5)	6-35-B1120-3RE	
11	LCD FRAME COVER RUBBER Gasket (1.5) (1.5) (1.5)	6-33-W7601-030-1	
12	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-35-B6125-5RA	
13	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-88-H810C-4900	
14	LCD FRAME COVER RUBBER Gasket (1.5) (1.5) (1.5)	6-43-W765T-022	
15	LCD FRAME COVER RUBBER Gasket (1.5) (1.5) (1.5)	6-33-W7601-010-1	
16	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-23-W765-021	(OPTION)
17	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-23-W765-011	(OPTION)
18	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-39-W7651-022	FOR W765S/SUN
19	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-23-W760-011	(OPTION)
20	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-45-M741S-020	
21	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-40-W7651-052	FOR W765/S/SUN
22	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-23-5W765-011	
23	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-43-M741S-011	
24	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-23-5M74S-030	
25	SCREW HEAD 3.0X3.5 (4.0) (1.5) (1.5)	6-23-W760-021	(OPTION)

A.Part Lists

DVD-Dual Drive (W765TG)



ITEM	PART NAME	PART NO	REMARK
1	CD ROM BRACKET	6-35-B1120-3RD	
2	CD ROM BRACKET SECC	6-33-W74SZ-012-1	
3	SATA DVD SUPER MULTI 5 1/4" BK 12.7MM TS-L	6-B5-A078X-T06	
4	DDD BEZEL MODULE	6-42-W76SZ-102	
5	DDD BEZEL LABEL(SUPER MULTI)	6-45-W76SZ-010-1	

Figure A - 13
DVD-Dual Drive
(W765TG)

Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the *M740TG/M748TG-C/M765TG/W765TG* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

Diagram - Page	Diagram - Page	Diagram - Page
<i>System Block Diagram - Page B - 2</i>	<i>VGA NI0M-GE1-5 - Page B - 20</i>	<i>Power 1.5VS/1.05VS - Page B - 38</i>
<i>Clock Generator - Page B - 3</i>	<i>VGA NI0M-GE1-6 - Page B - 21</i>	<i>Power 1.8V/0.9V - Page B - 39</i>
<i>Penryn (Socket-P) CPU 1/2 - Page B - 4</i>	<i>VGA NI0M-GE1-7 - Page B - 22</i>	<i>Power GPU/NVDD - Page B - 40</i>
<i>Penryn (Socket-P) CPU 2/2 - Page B - 5</i>	<i>ICH9M 1/4, SATA - Page B - 23</i>	<i>AC-IN, Charger - Page B - 41</i>
<i>CANTIGA 1/7, Host - Page B - 6</i>	<i>ICH9M 2/4, PCI, USB - Page B - 24</i>	<i>VCORE - Page B - 42</i>
<i>CANTIGA 2/7, Graphics - Page B - 7</i>	<i>ICH9M 3/4 - Page B - 25</i>	<i>NVDD - Page B - 43</i>
<i>CANTIGA 3/7 - Page B - 8</i>	<i>ICH9M 4/4 - Page B - 26</i>	<i>External ODD Board for M76 - Page B - 44</i>
<i>CANTIGA 4/7 - Page B - 9</i>	<i>New Card, Mini PCIE - Page B - 27</i>	<i>Click & Finger Board for M76 - Page B - 45</i>
<i>CANTIGA 5/7 - Page B - 10</i>	<i>3G, Powergood - Page B - 28</i>	<i>Multi Function Board - Page B - 46</i>
<i>CANTIGA 6/7 - Page B - 11</i>	<i>USB, Fan, TP, FP, Multi CON - Page B - 29</i>	<i>Audio Board - Page B - 47</i>
<i>CANTIGA 7/7 - Page B - 12</i>	<i>Card Reader - Page B - 30</i>	<i>Finger Sensor Board for M76 - Page B - 48</i>
<i>DDRII SO-DIMM - 0 - Page B - 13</i>	<i>SATA ODD, LED, Hotkey, LID SW - Page B - 31</i>	<i>Power Switch Board for M74 - Page B - 49</i>
<i>DDRII SO-DIMM - 1 - Page B - 14</i>	<i>PCI-E LAN RTL8111C - Page B - 32</i>	<i>FingerPrint Board for M74 - Page B - 50</i>
<i>Panel, Inverter, CRT - Page B - 15</i>	<i>Audio Codec ALC662 - Page B - 33</i>	<i>Power Switch Board for M76 - Page B - 51</i>
<i>VGA NI0M-GE1-1 - Page B - 16</i>	<i>Audio AMP - Page B - 34</i>	<i>External ODD Board for W76 - Page B - 52</i>
<i>VGA NI0M-GE1-2 - Page B - 17</i>	<i>KBC-ITE IT8512E - Page B - 35</i>	
<i>VGA NI0M-GE1-3 - Page B - 18</i>	<i>5V, 3.3V, 5VS, 3.3VS, 1.05VS - Page B - 36</i>	
<i>VGA NI0M-GE1-4 - Page B - 19</i>	<i>Power 3.3V/5V - Page B - 37</i>	

Table B - 1
**Schematic
Diagrams**

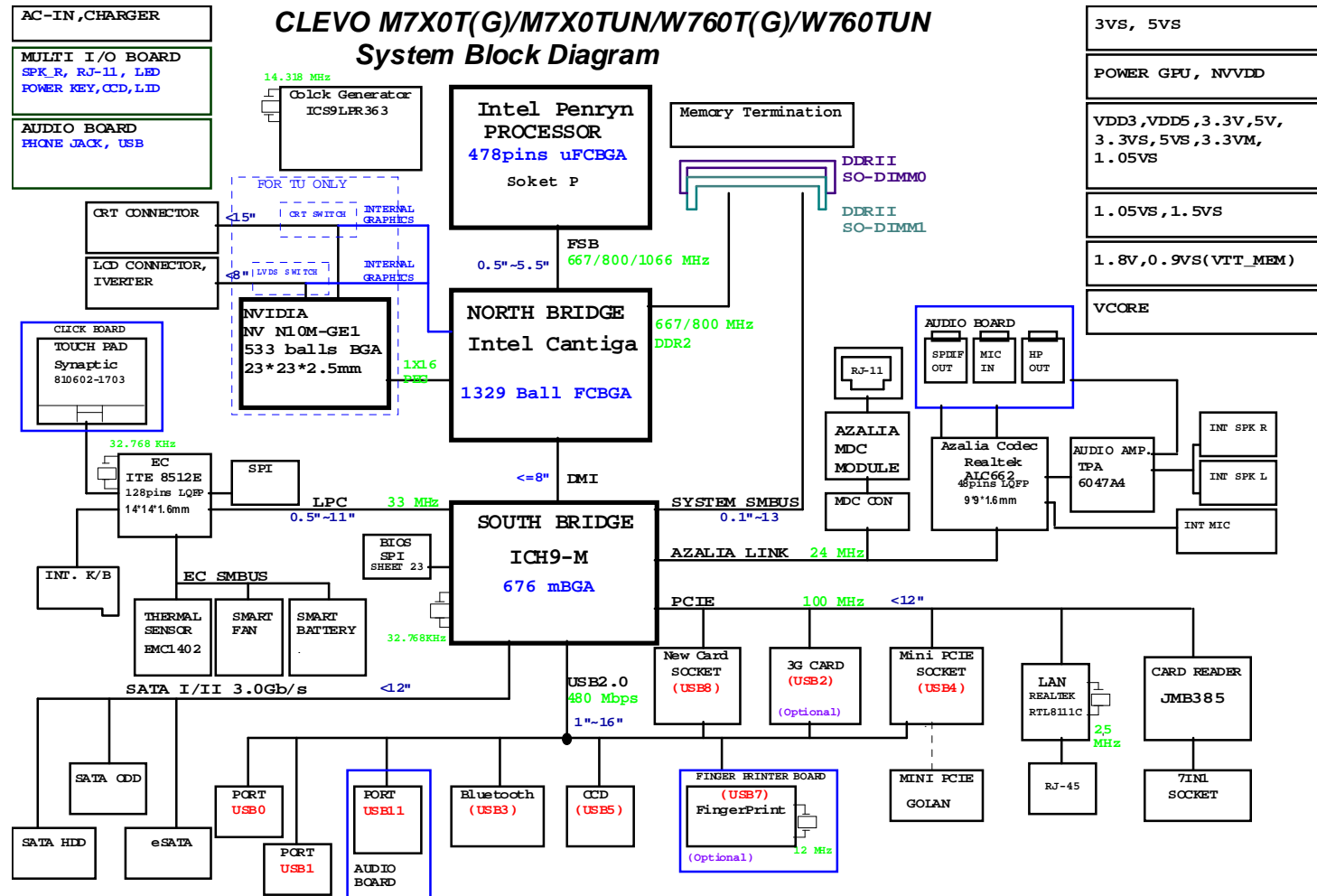


Version Note

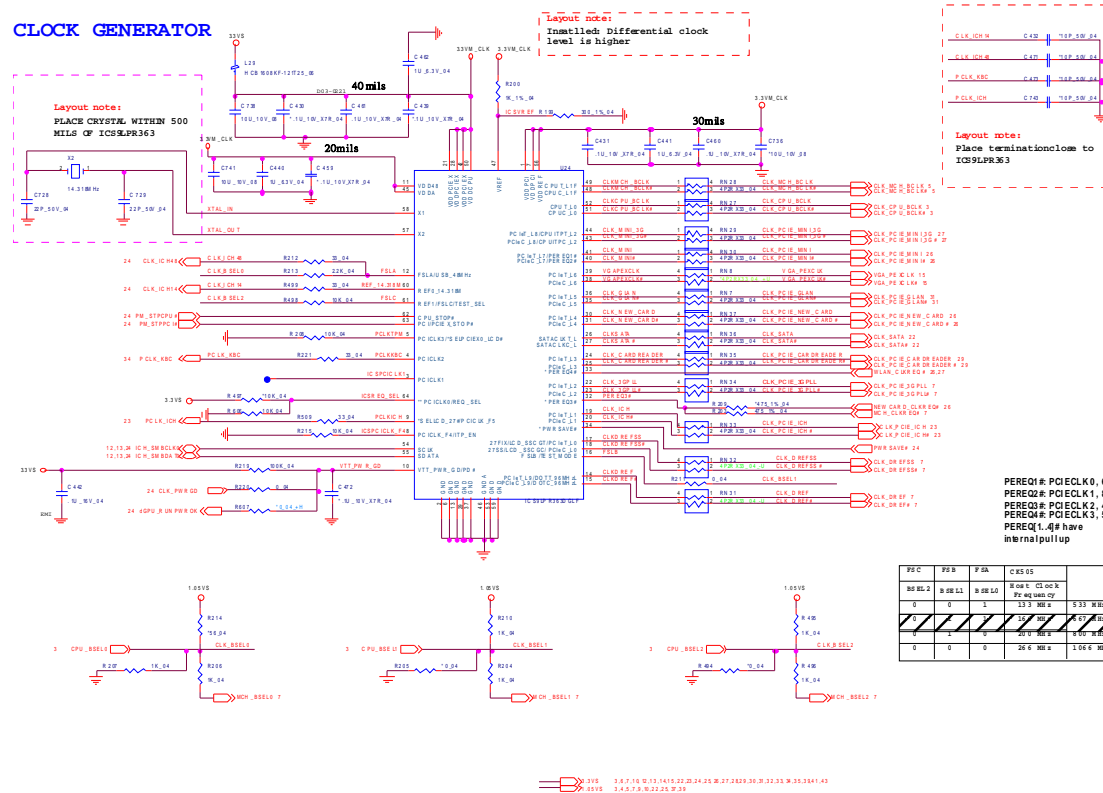
The schematic diagrams in this chapter are based upon version 6-7P-M74TA-003. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

System Block Diagram

Sheet 1 of 51
System Block
Diagram



Clock Generator

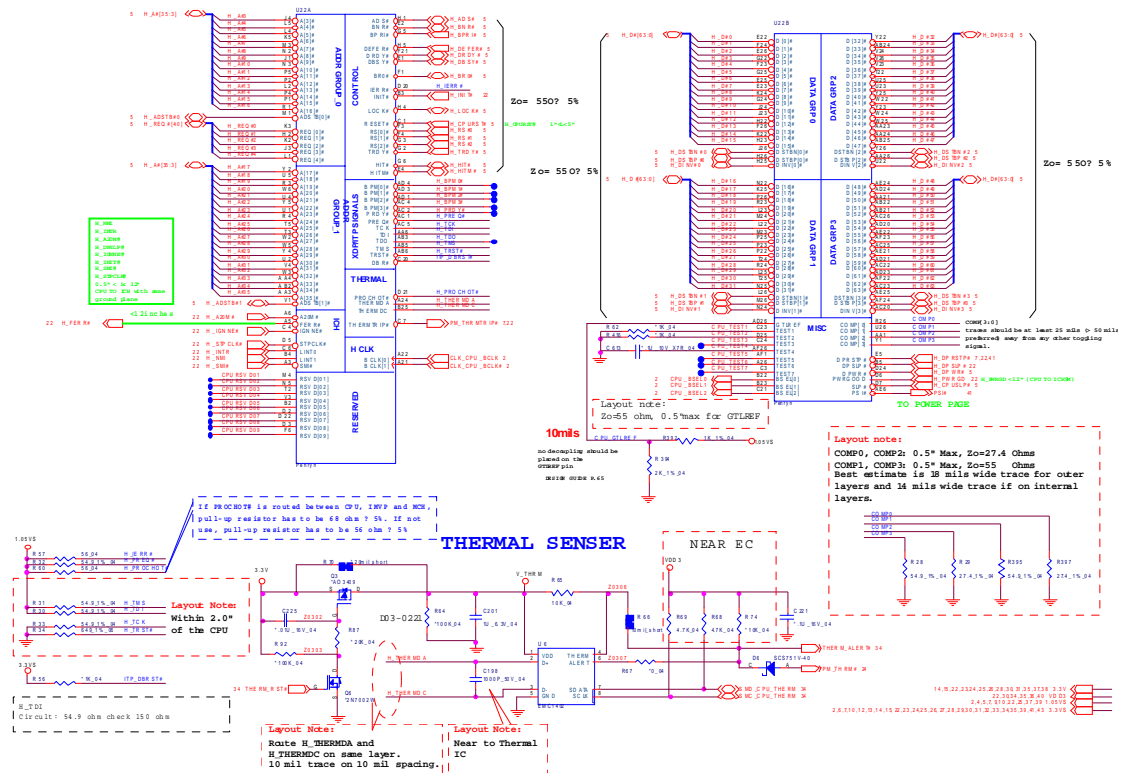


Sheet 2 of 51
Clock Generator

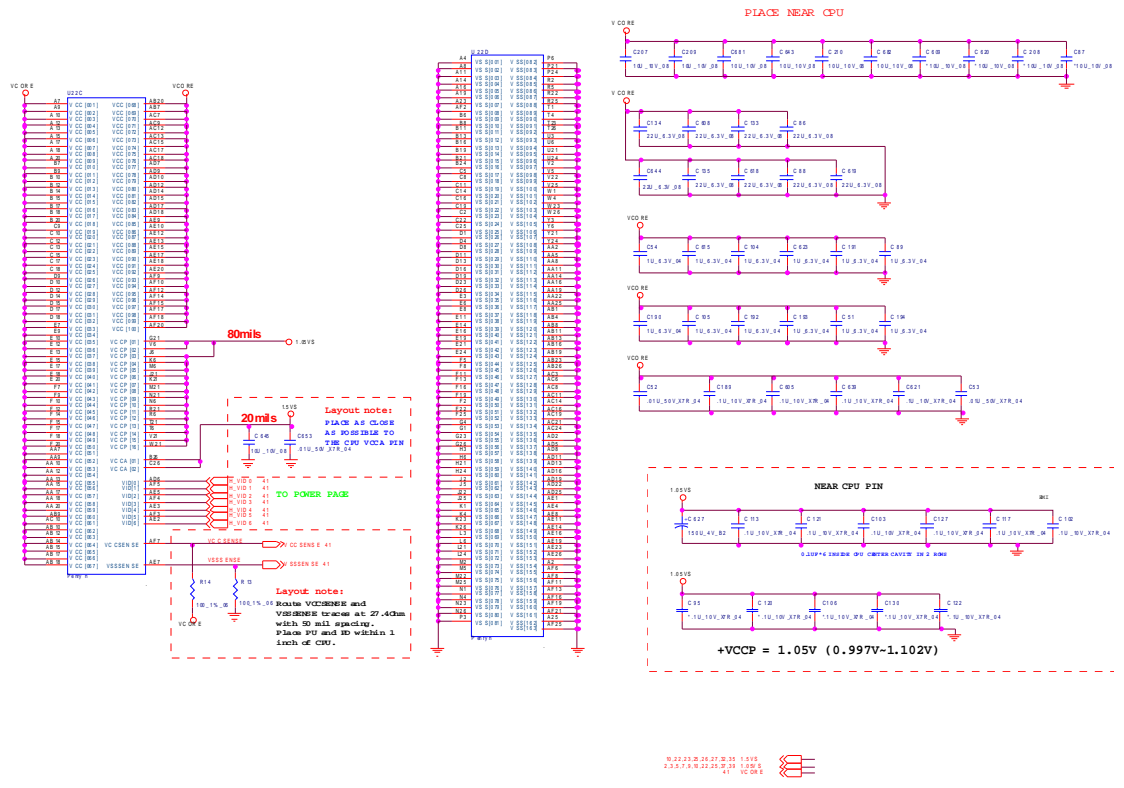
B.Schematic Diagrams

Penryn (Socket-P) CPU 1/2

Sheet 3 of 51
Penryn (Socket-P)
CPU 1/2



Penryn (Socket-P) CPU 2/2

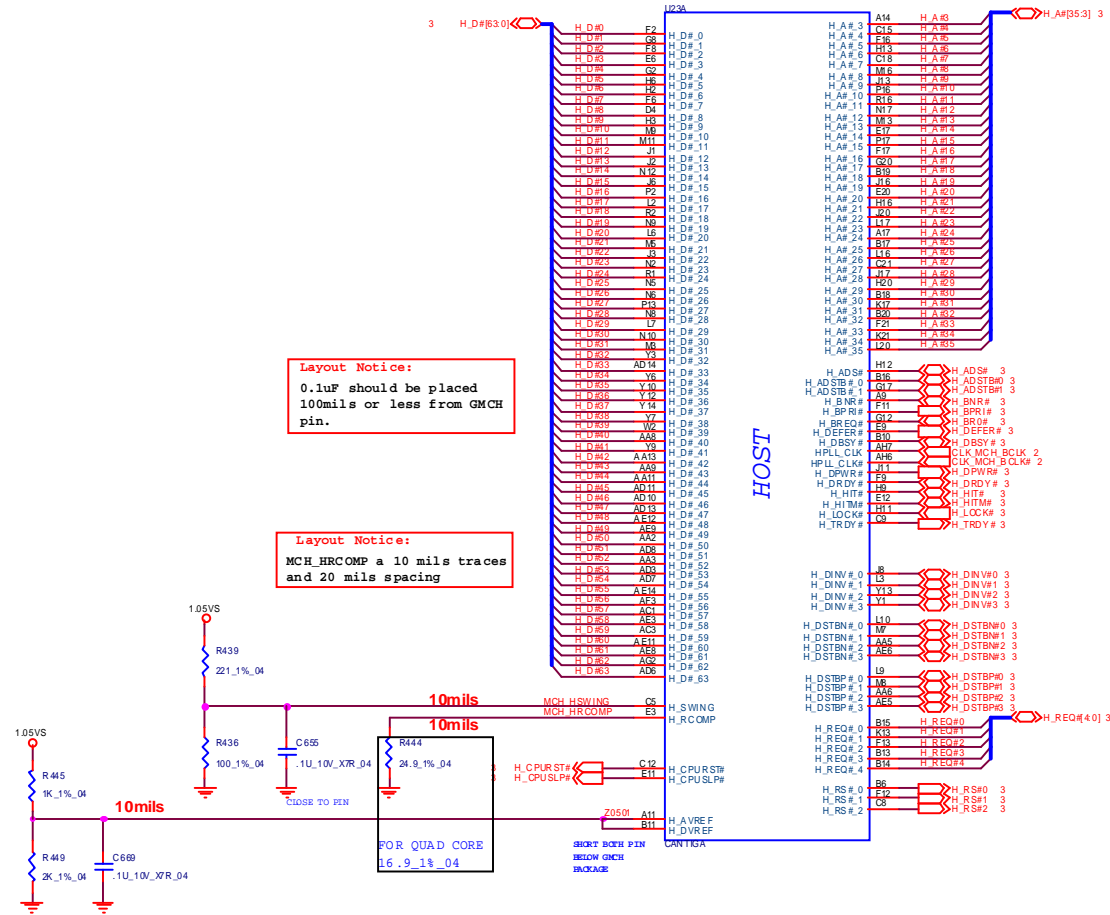


B. Schematic Diagrams

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

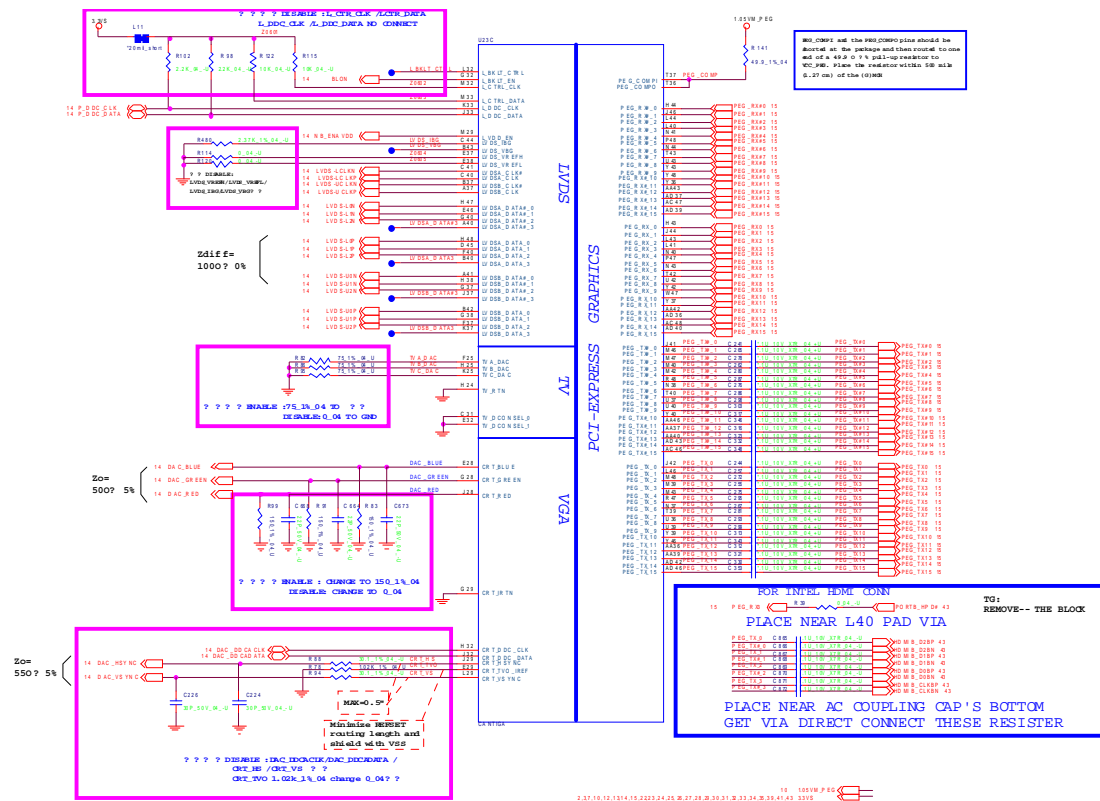
CANTIGA 1/7, Host

Sheet 5 of 51
CANTIGA 1/7, Host



2,3,4,7,9,10,22,25,37,39 1.05VS

CANTIGA 2/7, Graphics

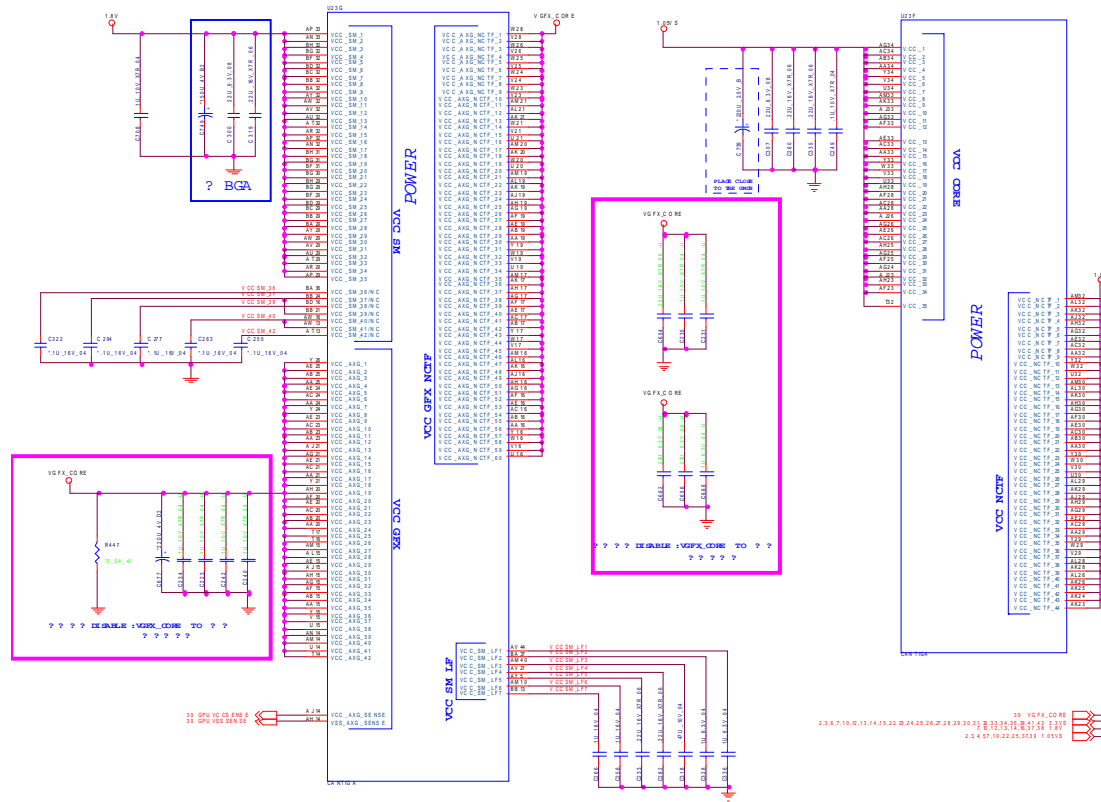


B.Schematic Diagrams

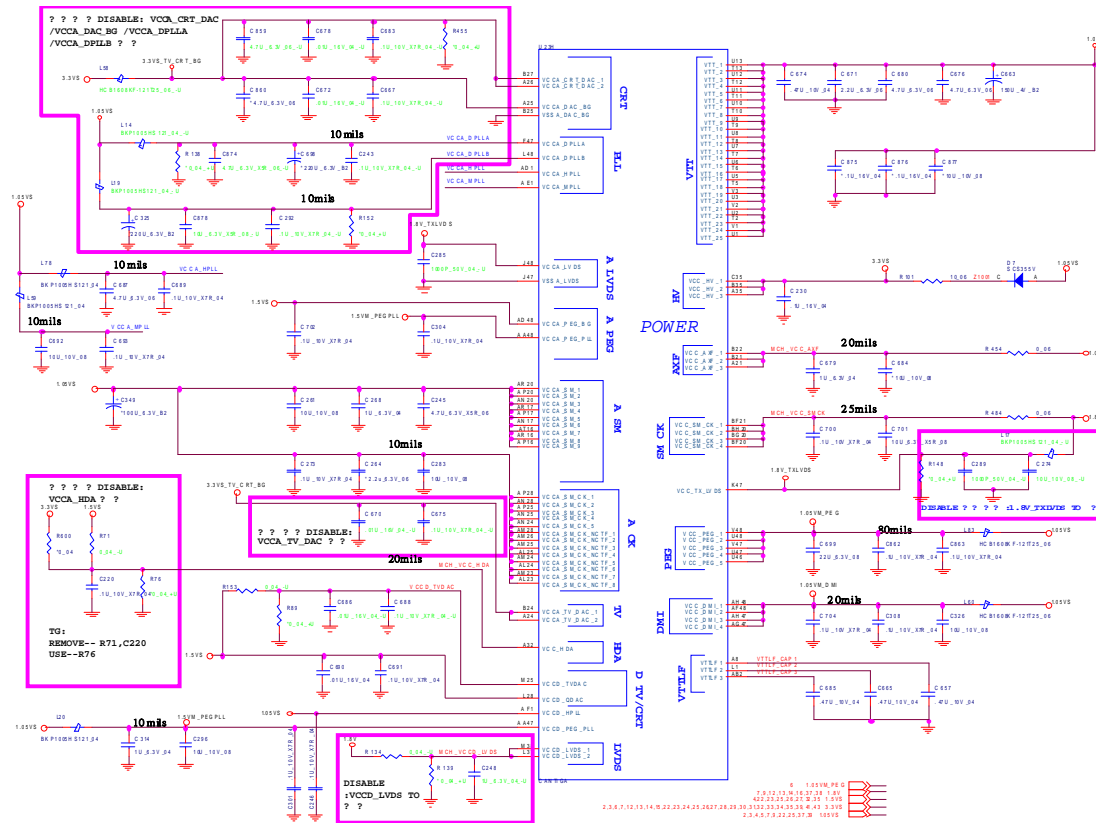
Sheet 6 of 51
CANTIGA 2/7,
Graphics

CANTIGA 5/7

Sheet 9 of 51
CANTIGA 5/7



CANTIGA 6/7

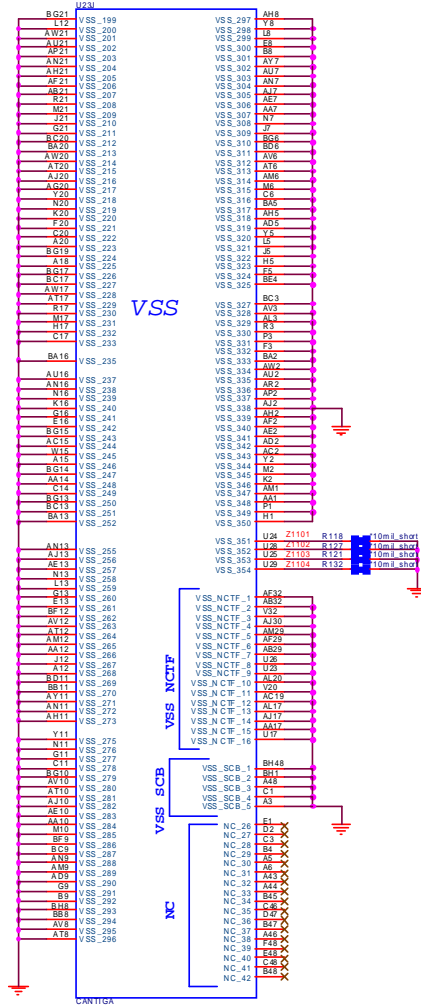
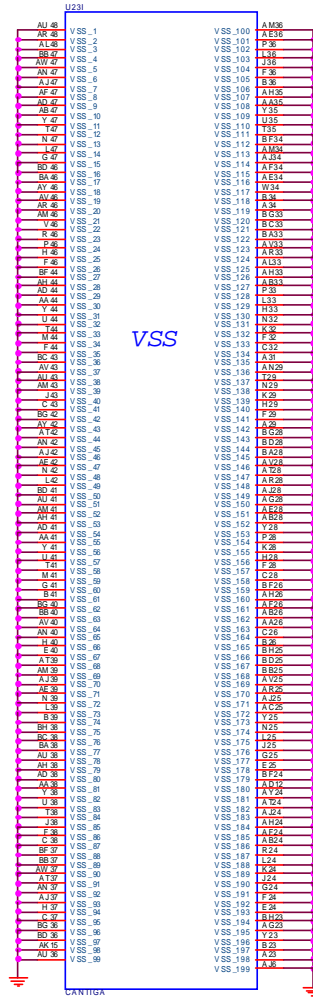


Sheet 10 of 51
CANTIGA 6/7

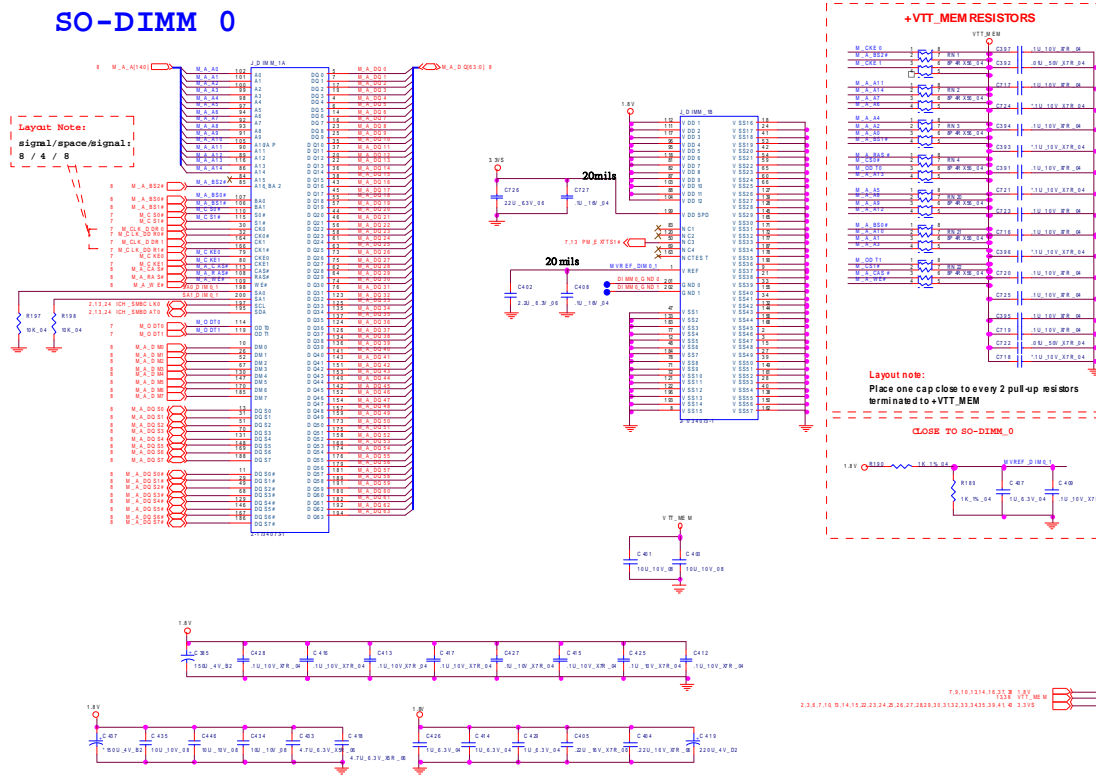
B. Schematic Diagrams

CANTIGA 7/7

Sheet 11 of 51
CANTIGA 7/7



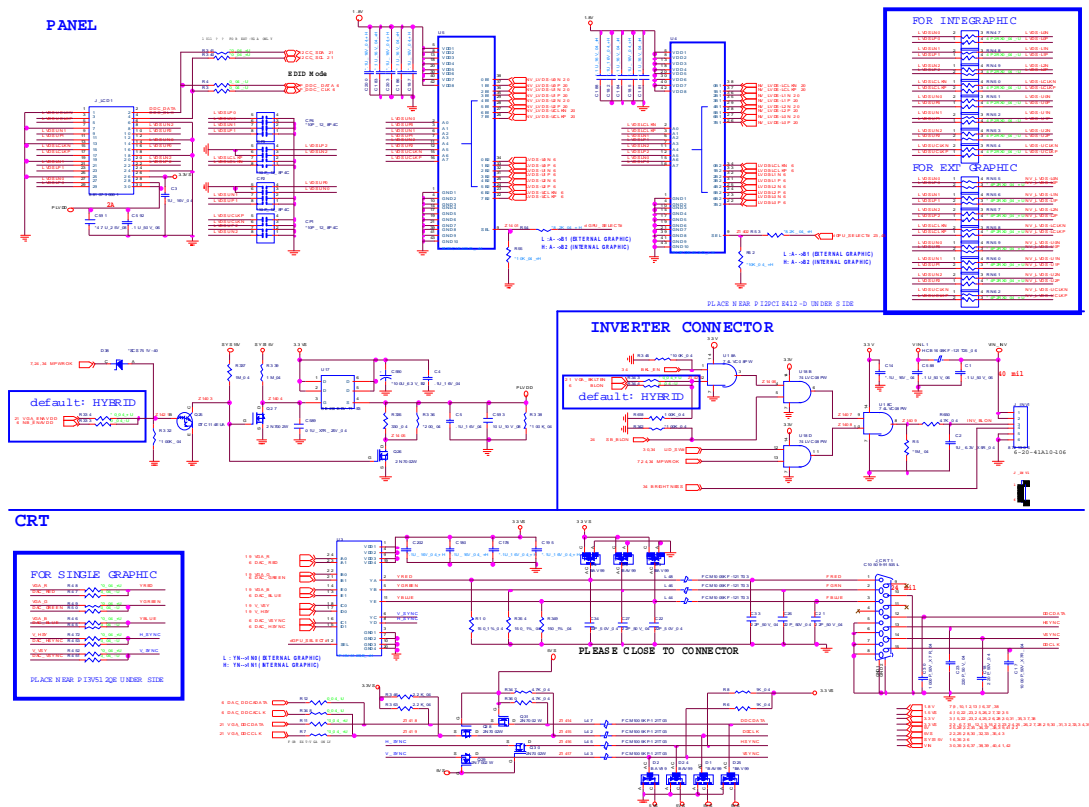
DDRII SO-DIMM - 0



Sheet 12 of 51
DDRII SO-DIMM - 0

B.Schematic Diagrams

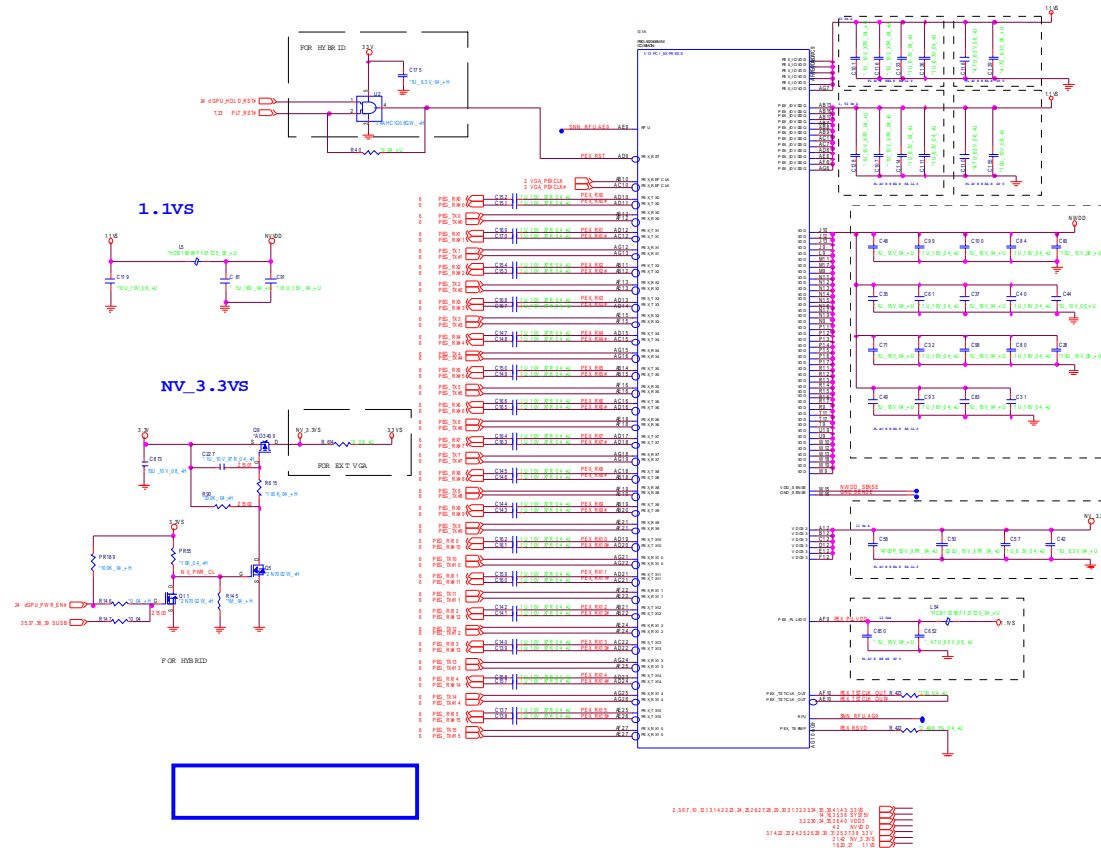
Panel, Inverter, CRT



Sheet 14 of 51
Panel, Inverter,
CRT

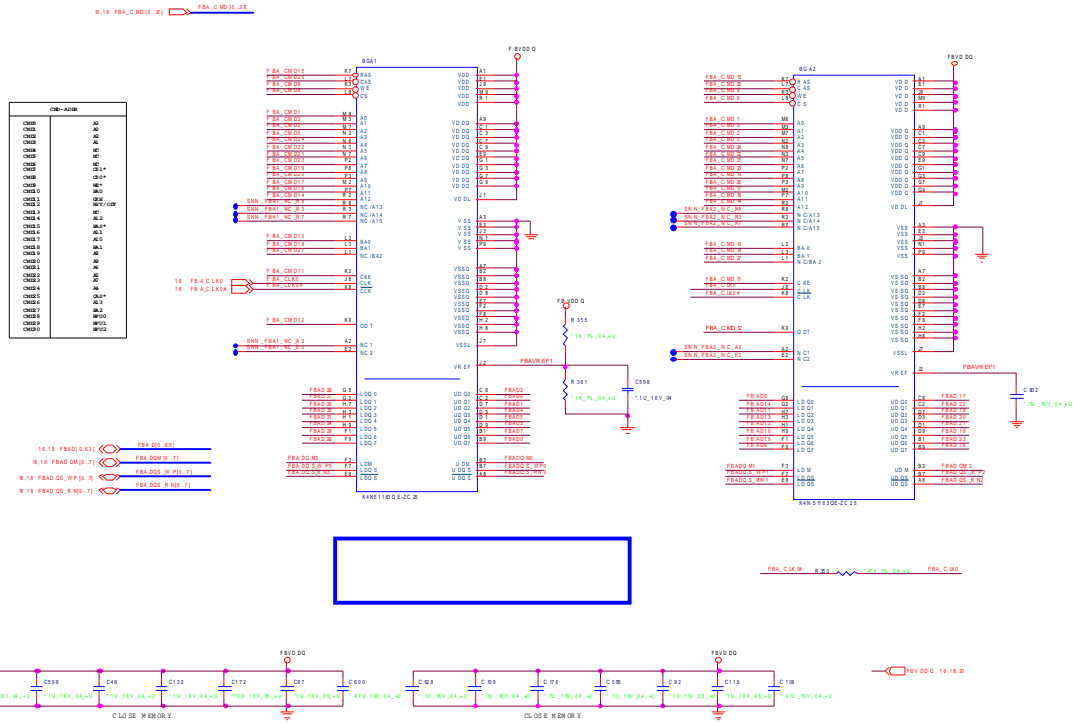
VGA N10M-GE1-1

Sheet 15 of 51
VGA N10M-GE1-1



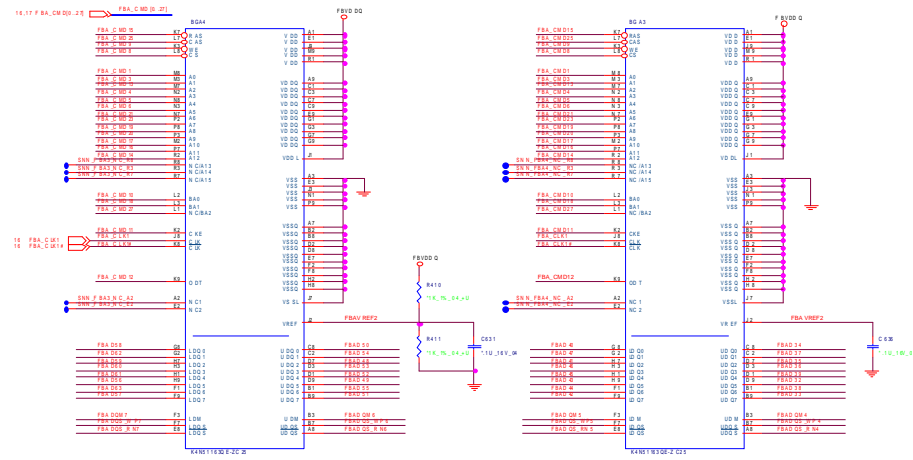
VGA N10M-GE1-3

Sheet 17 of 51
VGA N10M-GE1-3

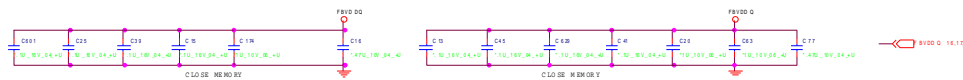


VGA N10M-GE1-4

Symbol	Value
0000	NC
0001	A0
0002	NC
0003	A1
0004	A2
0005	NC
0006	A3
0007	NC
0008	CS*
0009	WE*
0010	RD*
0011	CS*
0012	WE*
0013	A0
0014	A1
0015	A2
0016	A3
0017	A4
0018	A5
0019	A6
0020	A7
0021	NC
0022	NC
0023	A7
0024	NC
0025	A0
0026	RD*
0027	WE*
0028	RD*
0029	WE*
0030	RD*
0031	WE*



- 16.17 FBA_D 0-31
- 16.17 FBA_D 0-31
- 16.17 FBA_D 0-31
- 16.17 FBA_D 0-31



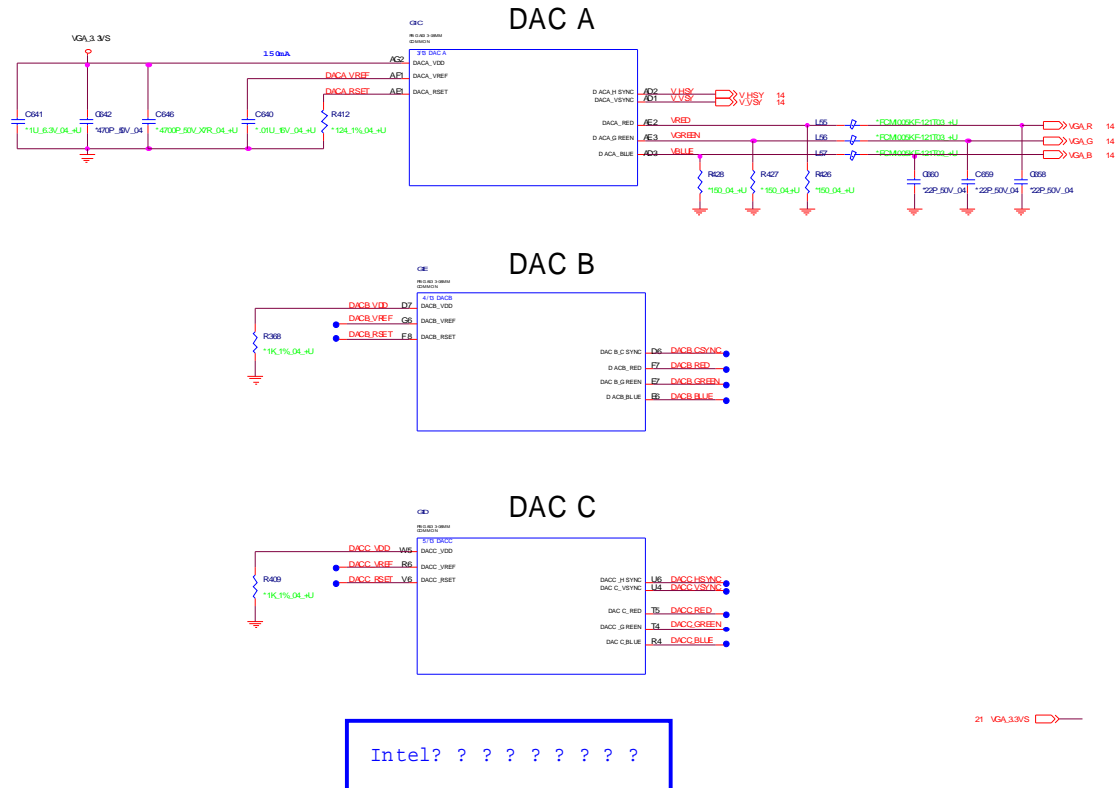
Sheet 18 of 51
VGA N10M-GE1-4

B. Schematic Diagrams

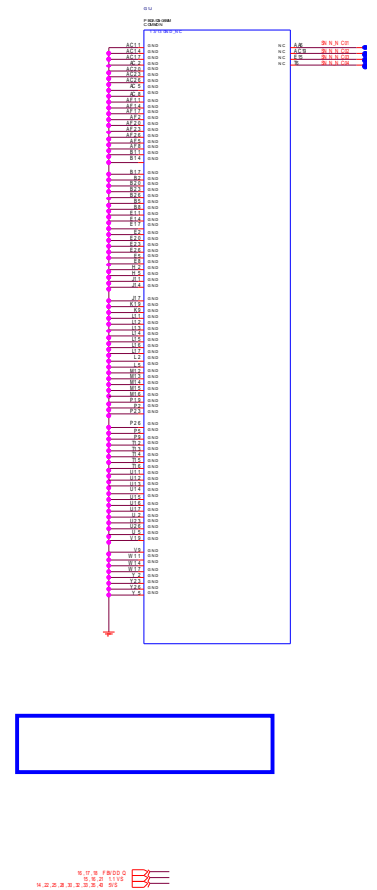
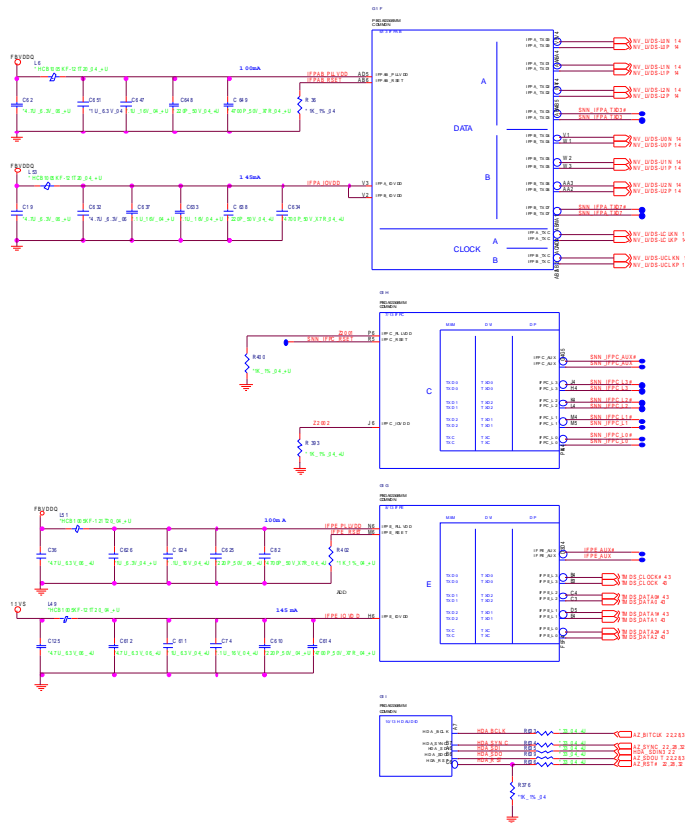
Schematic Diagrams

VGA N10M-GE1-5

Sheet 19 of 51
VGA N10M-GE1-5



VGA N10M-GE1-6

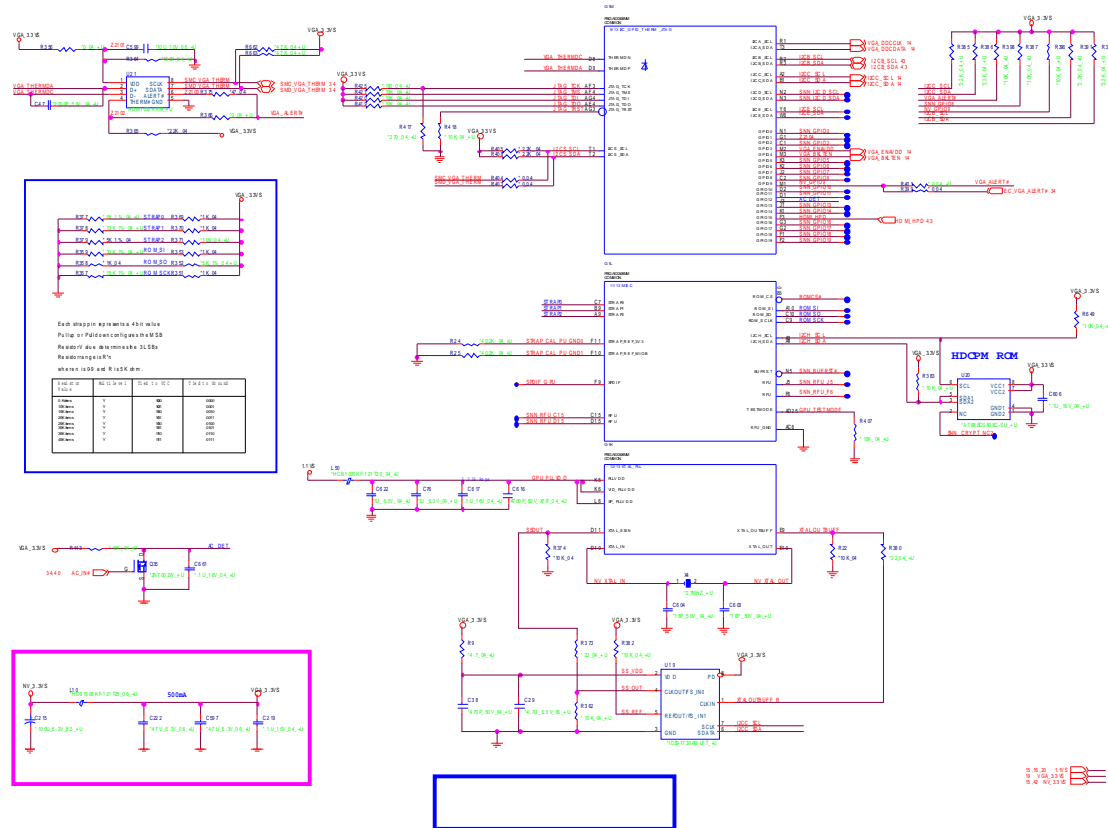


Sheet 20 of 51
VGA N10M-GE1-6

B. Schematic Diagrams

VGA N10M-GE1-7

Sheet 21 of 51
VGA N10M-GE1-7

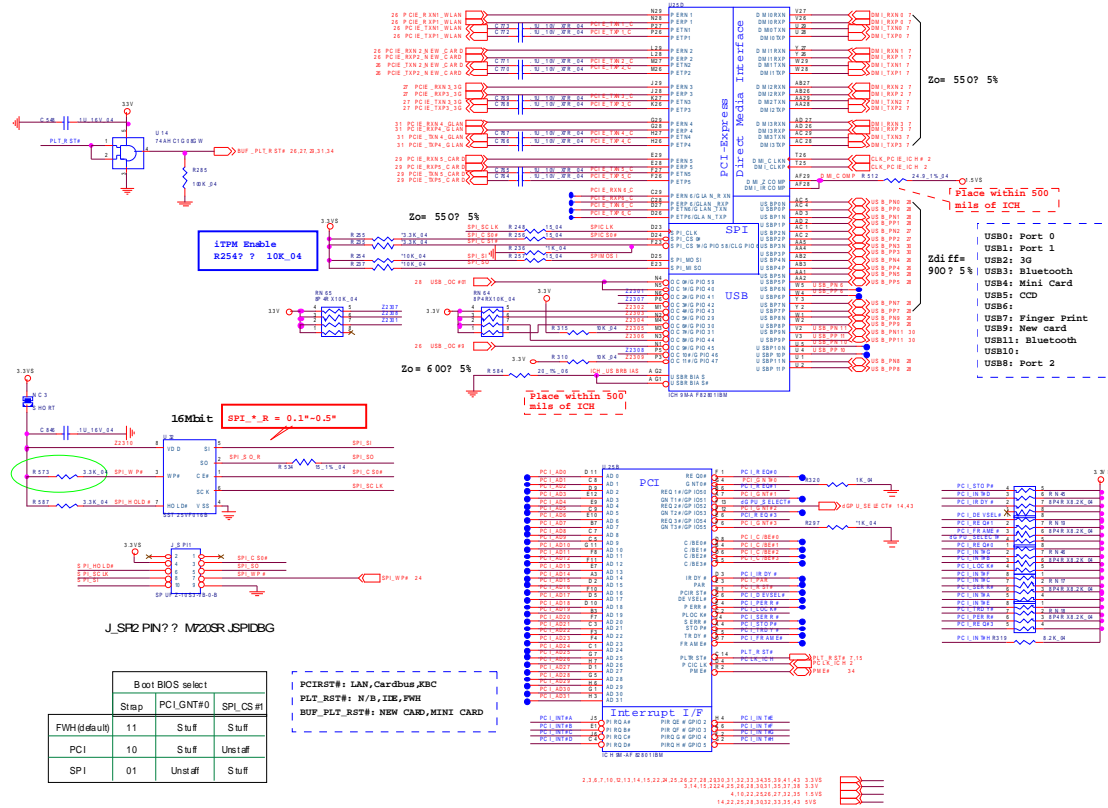


Schematic Diagrams

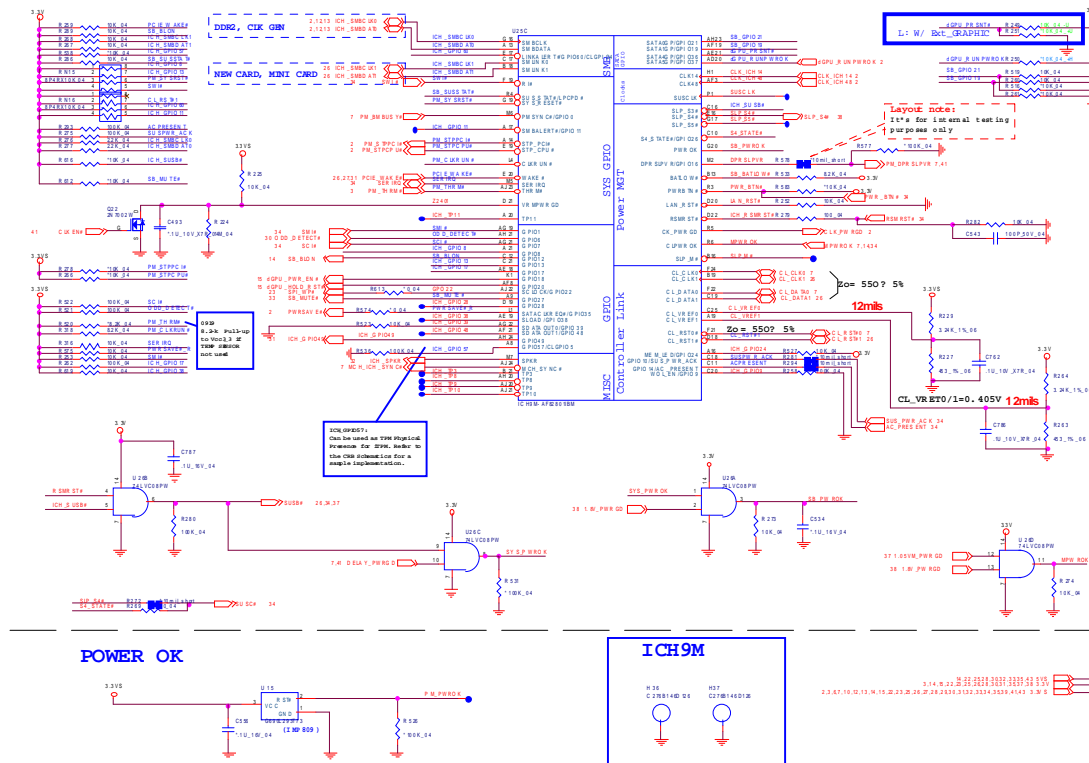
ICH9M 2/4, PCI, USB

B.Schematic Diagrams

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



ICH9M 3/4



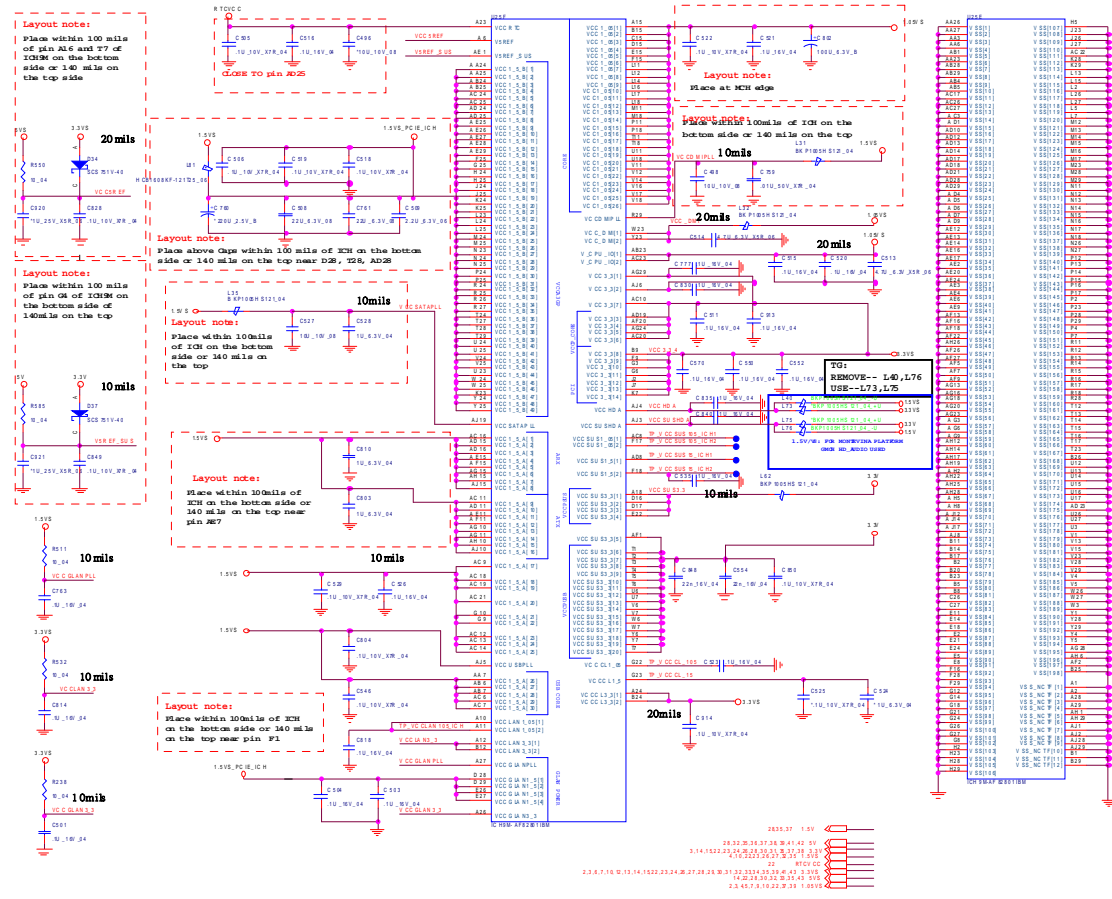
Sheet 24 of 51
ICH9M 3/4

B. Schematic Diagrams

ICH9M 4/4

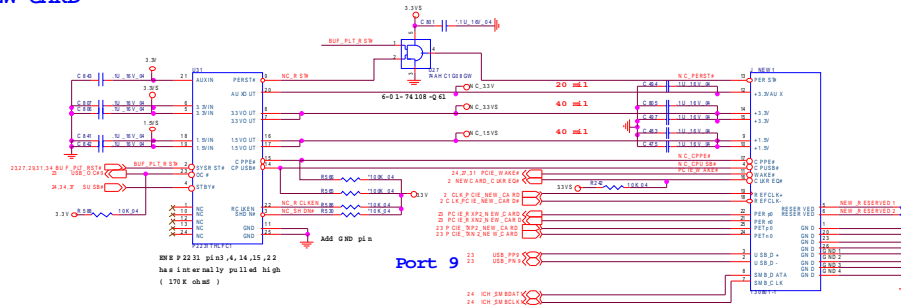
B.Schematic Diagrams

Sheet 25 of 51
ICH9M 4/4

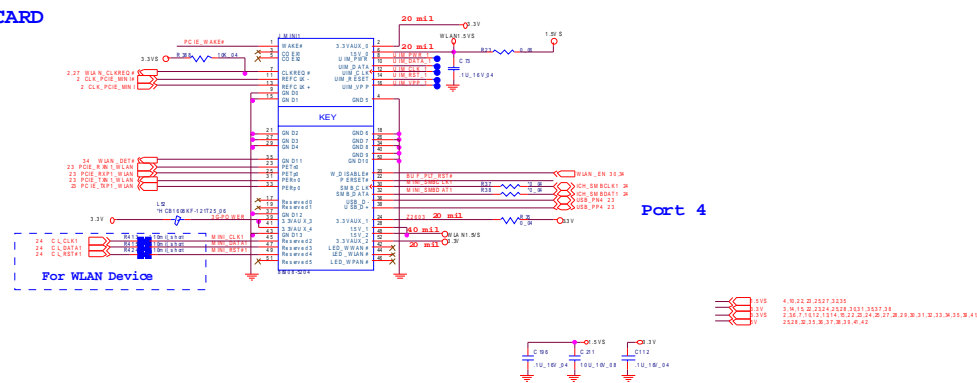


New Card, Mini PCIE

NEW CARD



MINI CARD



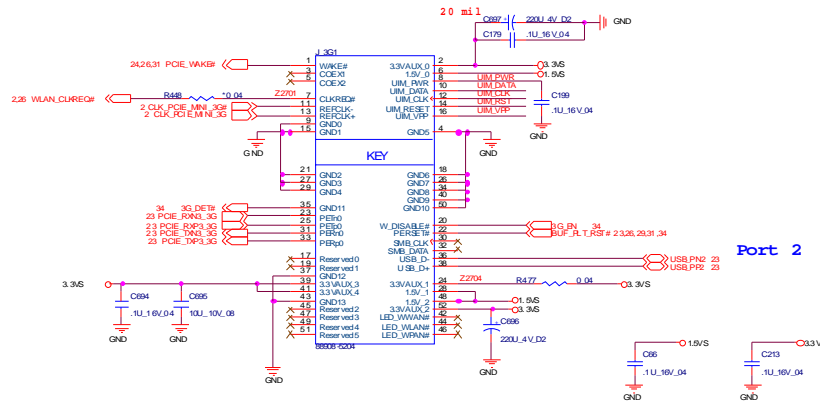
Sheet 26 of 51
New Card,
Mini PCIE

B. Schematic Diagrams

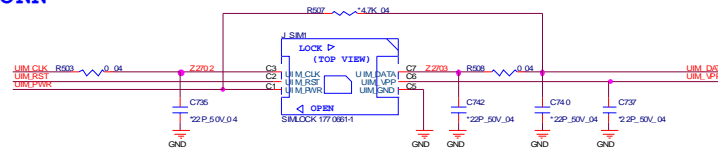
3G, Powergood

Sheet 27 of 51
3G, Powergood

3G



SIM CONN

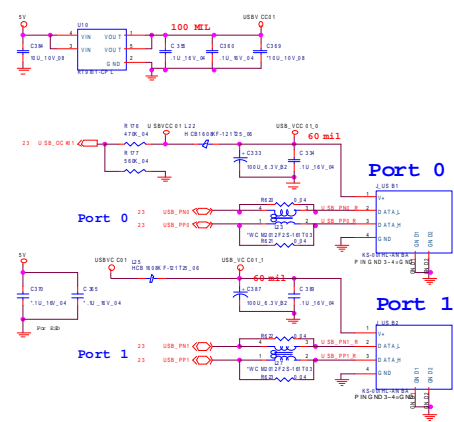


Layout?
 1. SIM? ? ? ? ? ? (10mil)
 2. ? ? ? ? ? ? GND
 3. SIM hold ? ? ? ? GND? ?
 4. SIM CONN ? ? MINI CARD
 CONN

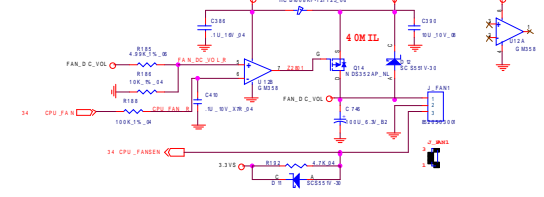
- 1.5V5 4 10,22,23,25,26,32,35
- 1.9V 3 14,15,22,23,24,25,26,28,30,31,35,37,38
- 3.3V 2 18,17,19,12,13,14,15,22,23,24,25,26,28,30,31,32,33,34,35,38,41,43
- 1.5V 14 22,25,28,30,32,33,35,43

USB, Fan, TP, FP, Multi CON

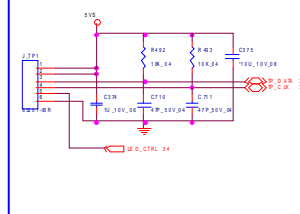
USB PORT*2



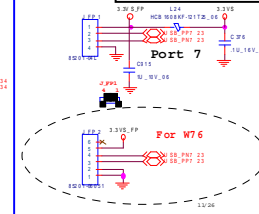
FAN CONTROL



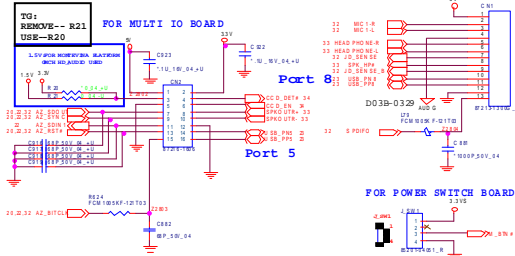
CLICK CONN FOR M760T



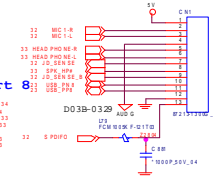
FP CONN



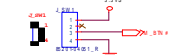
MULTI I/O CONN



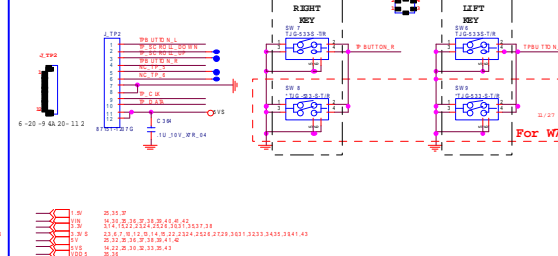
FOR PHONE JACK BOARD



FOR POWER SWITCH BOARD



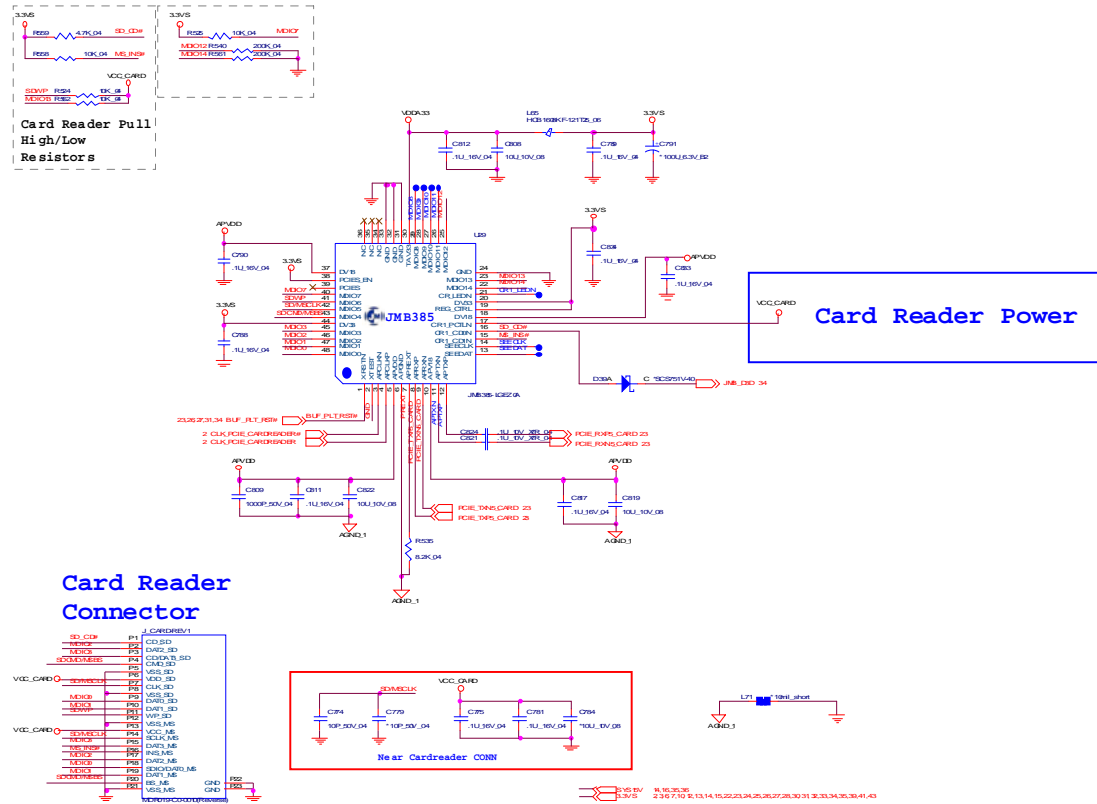
CLICK CONN FOR M740T



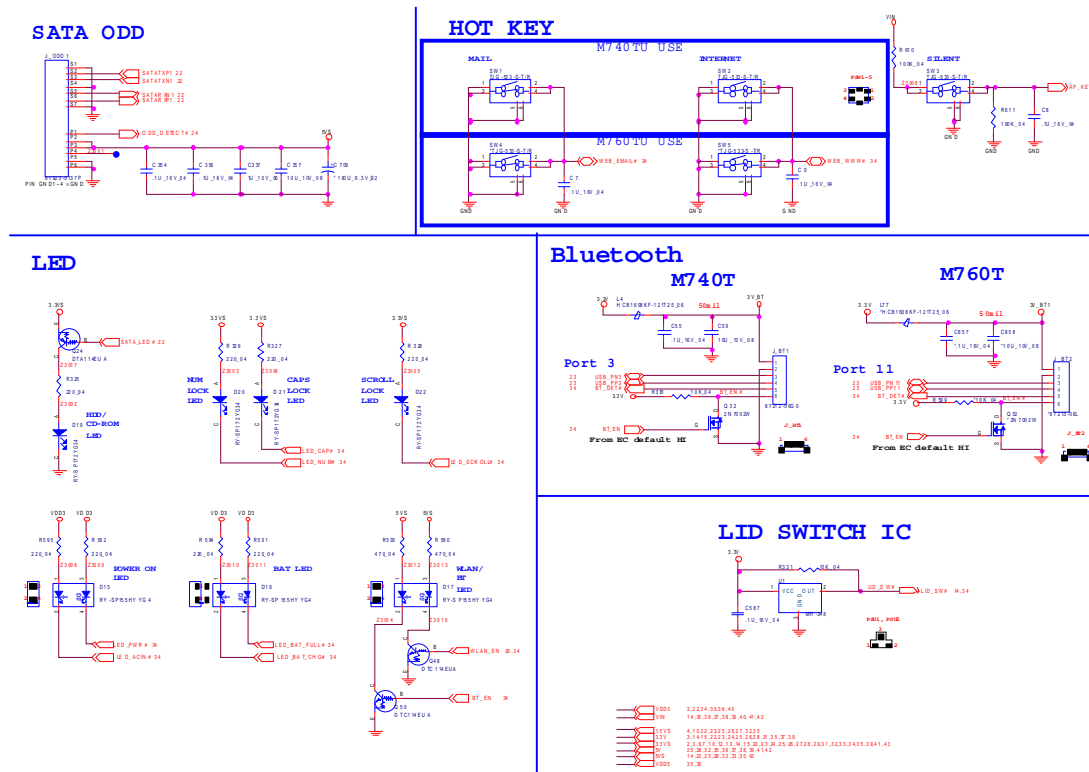
Sheet 28 of 51
USB, Fan, TP, FP,
Multi CON

Card Reader

Sheet 29 of 51
Card Reader



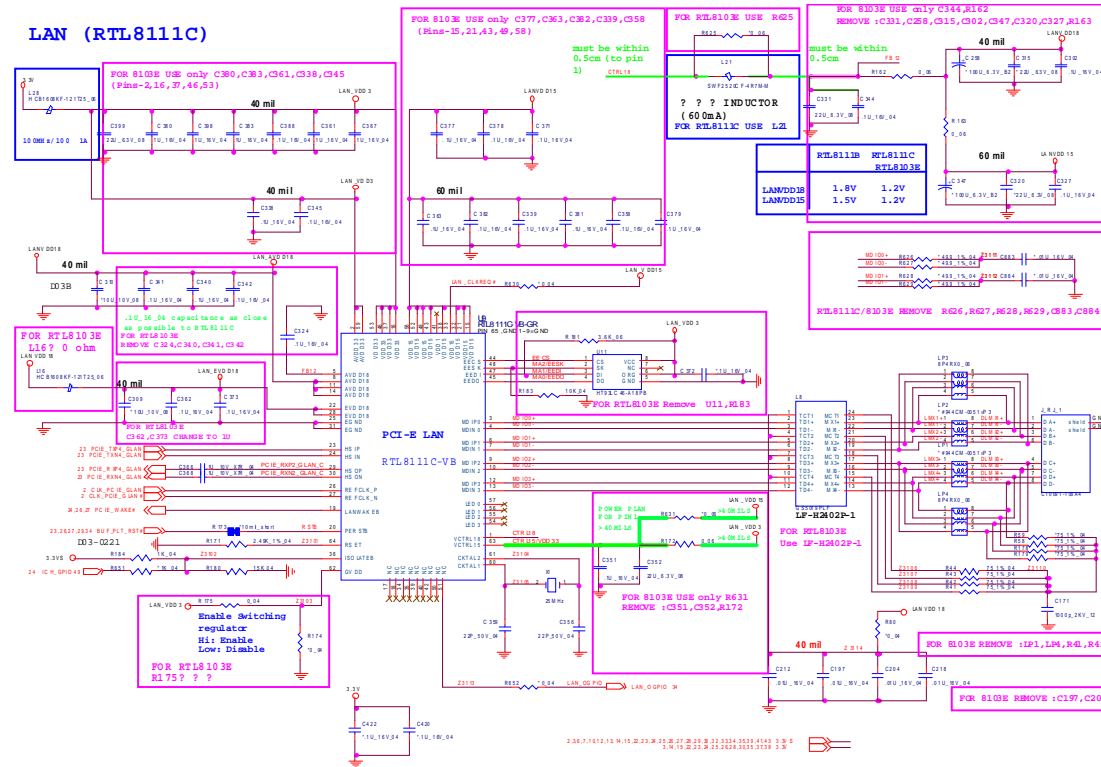
SATA ODD, LED, Hotkey, LID SW



Sheet 30 of 51
SATA ODD, LED,
Hotkey, LID SW

PCI-E LAN RTL8111C

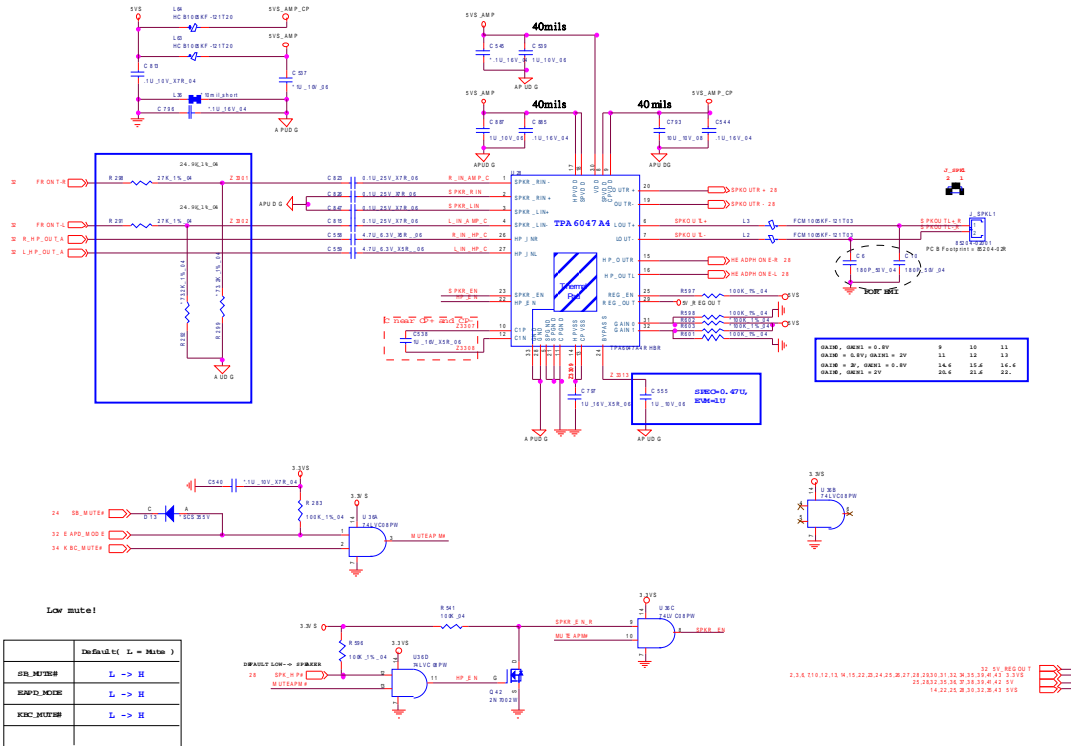
Sheet 31 of 51
PCI-E LAN
RTL8111C



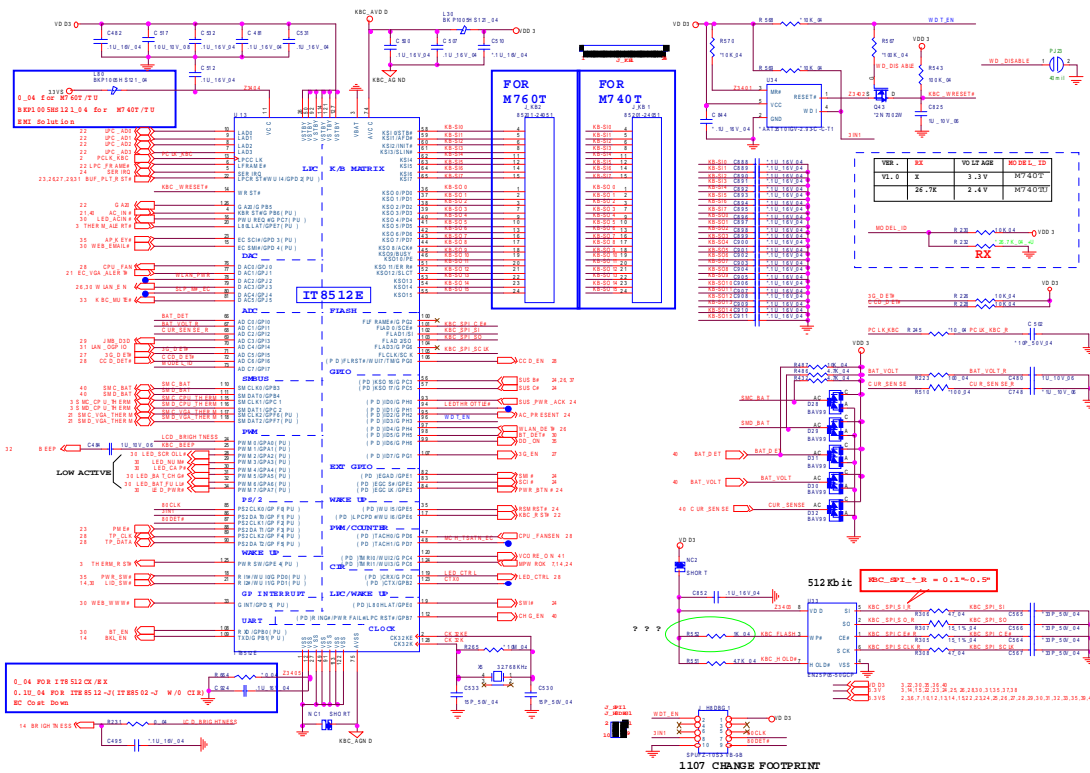
Audio AMP

Sheet 33 of 51
Audio AMP

AUDIO AMP



KBC-ITE IT8512E

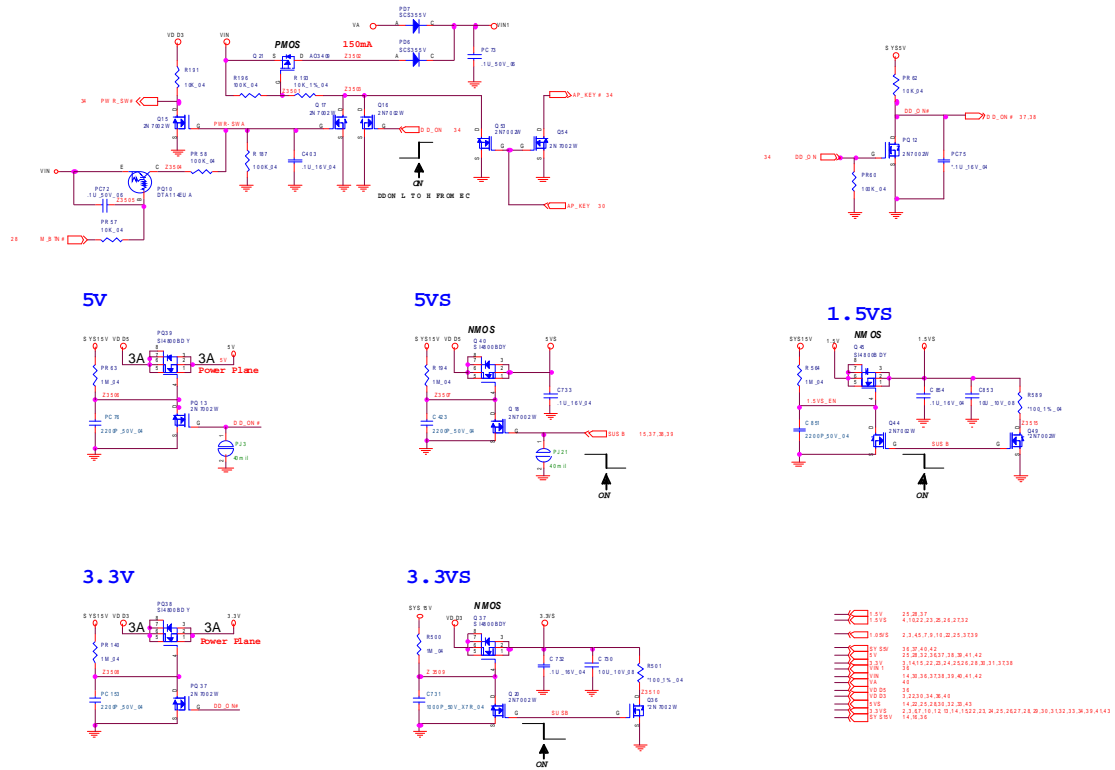


Sheet 34 of 51
KBC-ITE IT8512E

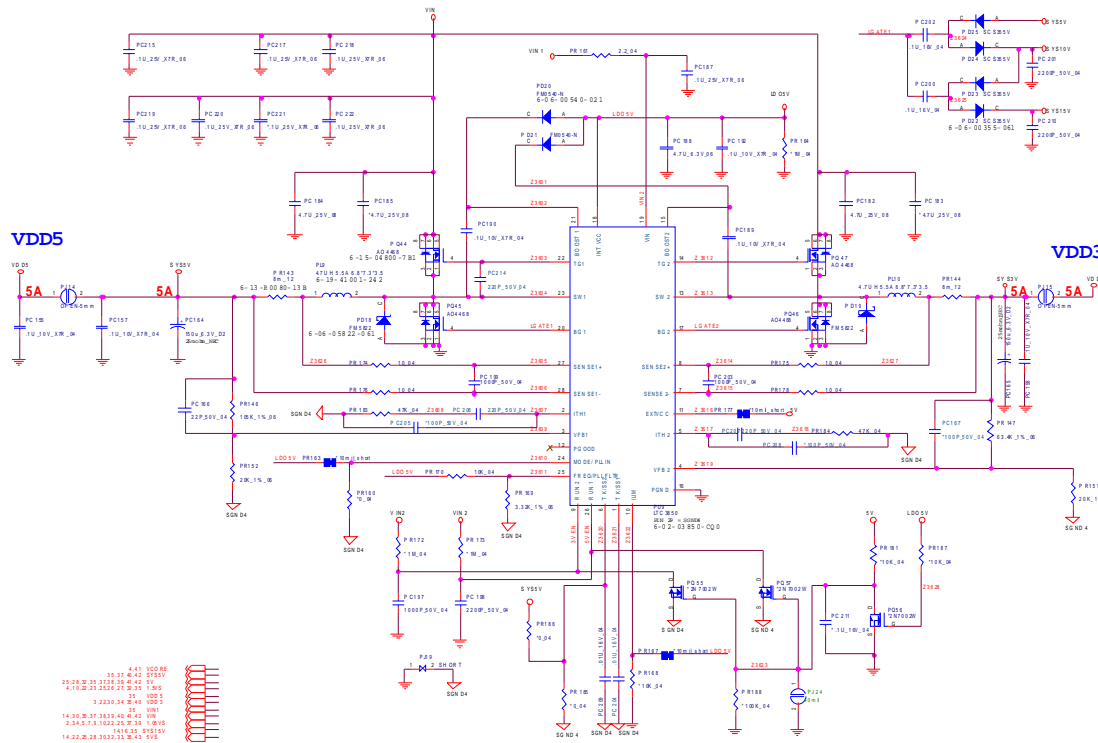
Schematic Diagrams

5V, 3.3V, 5VS, 3.3VS, 1.05VS

Sheet 35 of 51
5VS, 3.3V, 5VS,
3.3VS, 1.05VS



Power 3.3V/5V



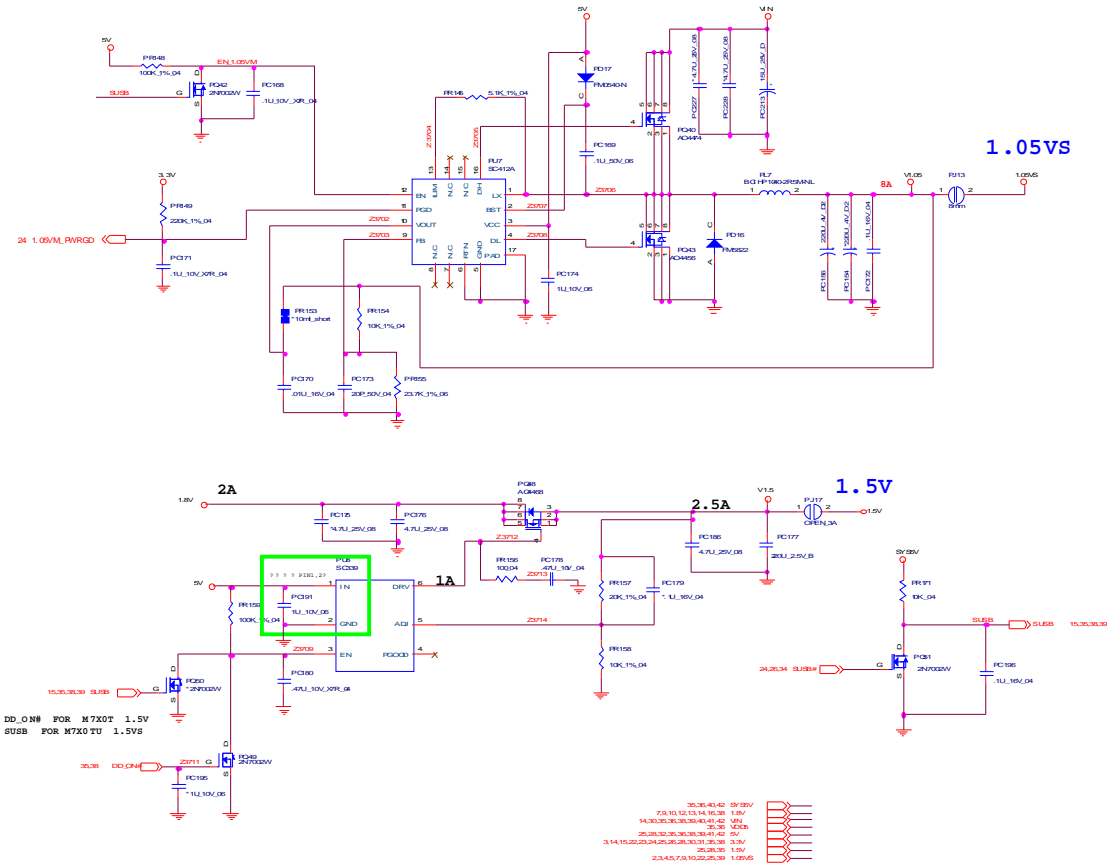
Sheet 36 of 51
Power 3.3V/5V

Schematic Diagrams

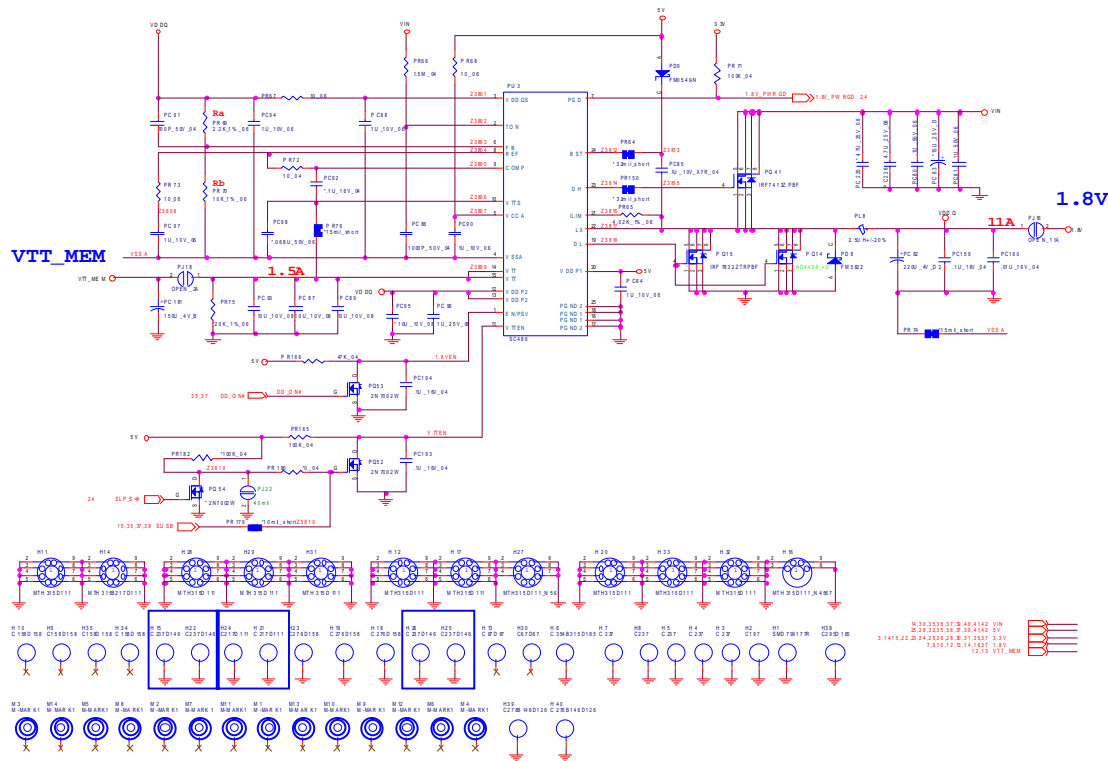
Power 1.5VS/1.05VS

B.Schematic Diagrams

Sheet 37 of 51
Power 1.5VS/
1.05VS

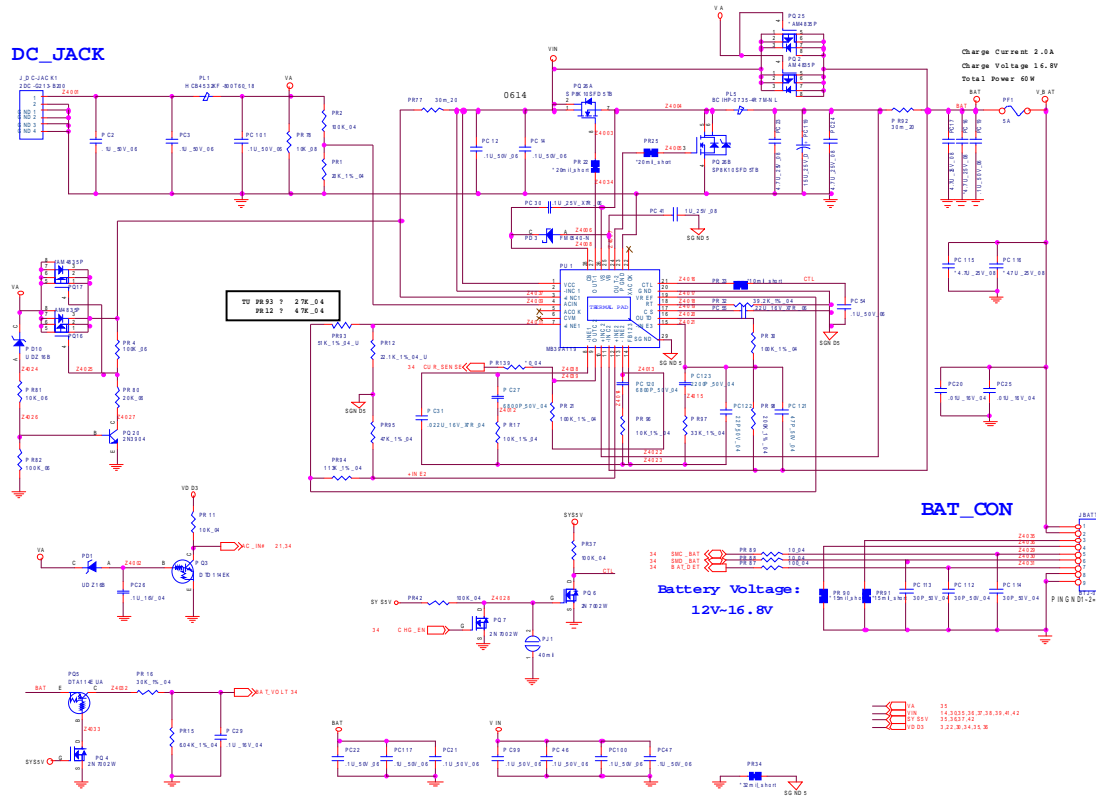


Power 1.8V/0.9V



Sheet 38 of 51
Power 1.8V/0.9V

AC-IN, Charger

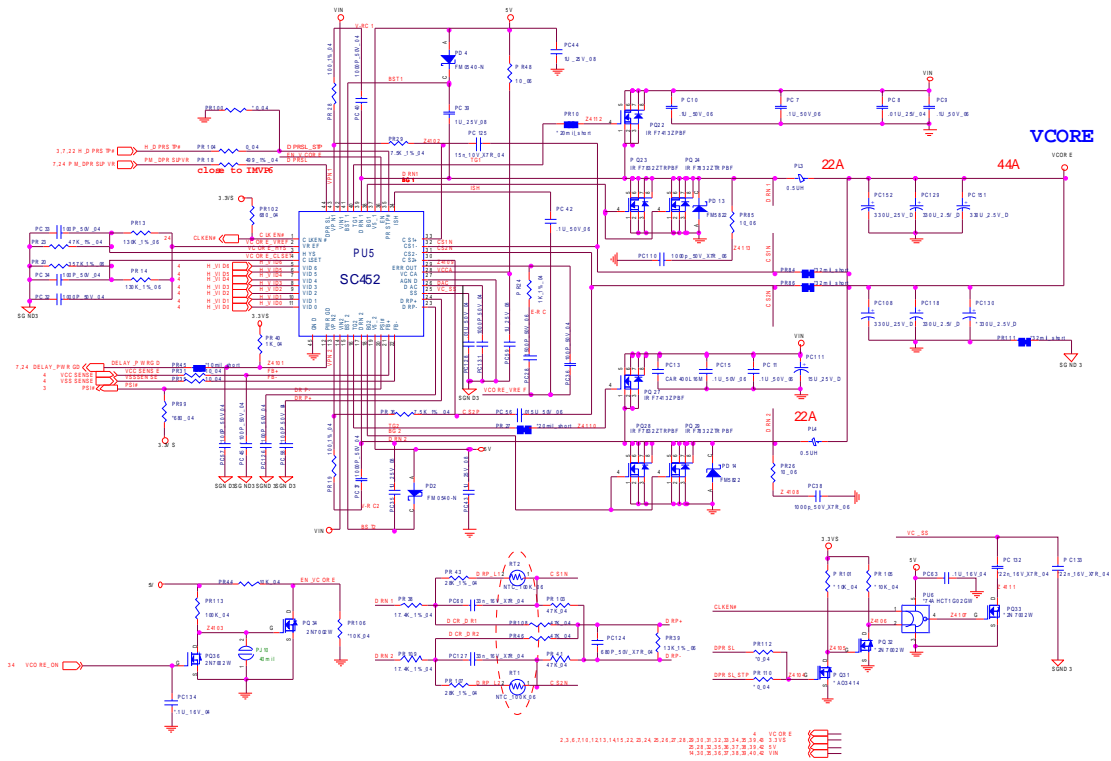


Sheet 40 of 51
AC-IN, Charger

B.Schematic Diagrams

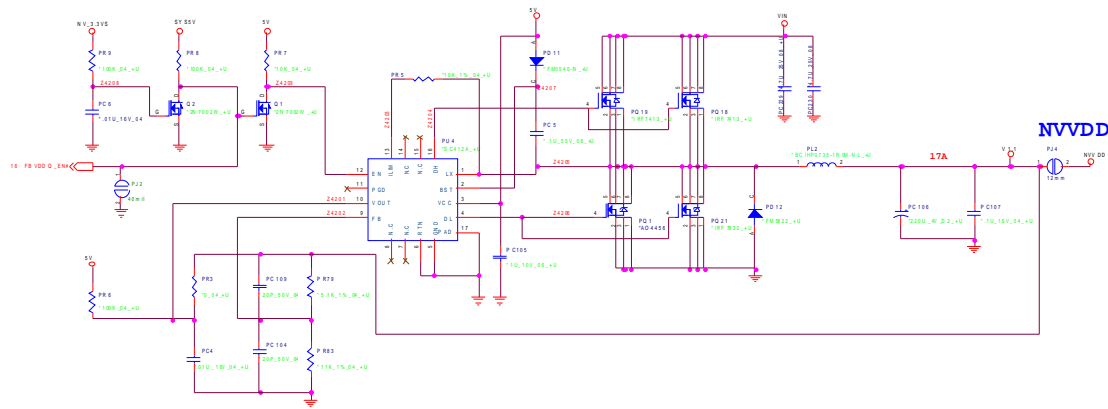
VCORE

Sheet 41 of 51
VCORE



NVVDD

FOR NV VGA

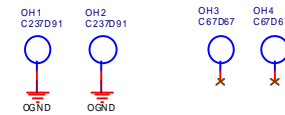
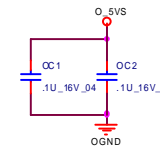
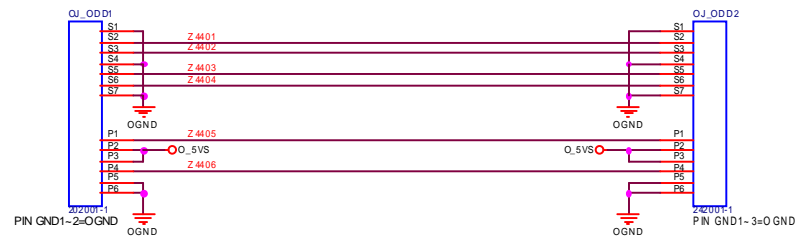


Sheet 42 of 51
NVVDD

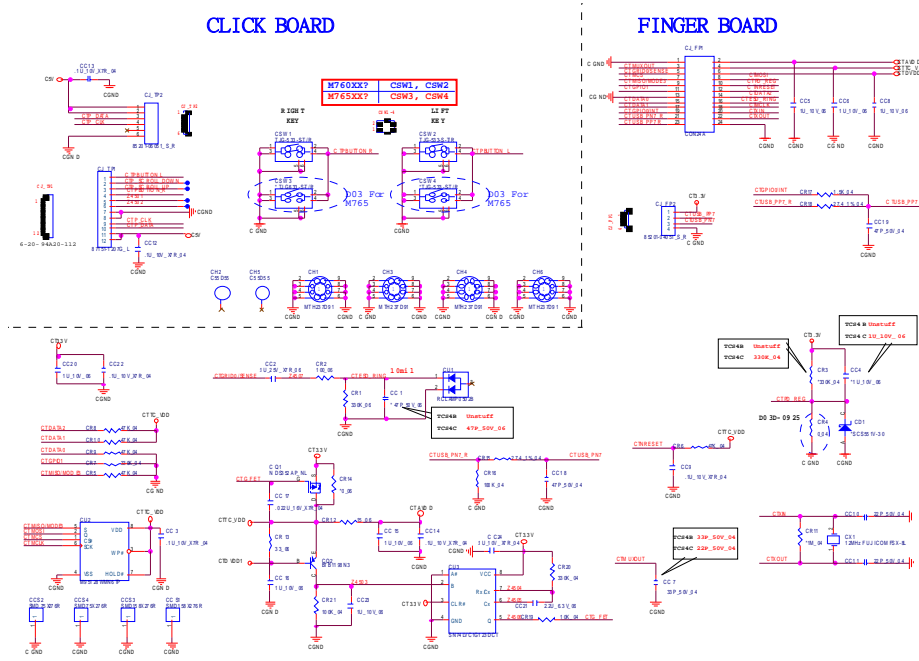
External ODD Board for M76

ODD BOARD

Sheet 43 of 51
External ODD
Board for M76



Click & Finger Board for M76



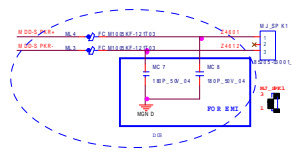
Sheet 44 of 51
Click Finger Board
for M76

CLEVO CO. 聯天電腦

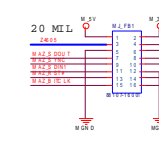
Multi Function Board

Sheet 45 of 51
Multi Function
Board

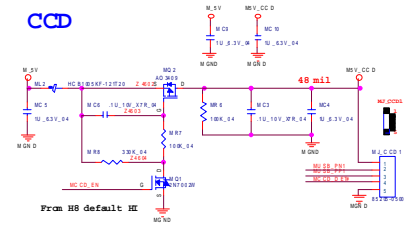
SPEAKER CONNECTOR



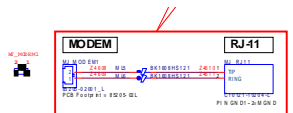
MULTI I/O CONN



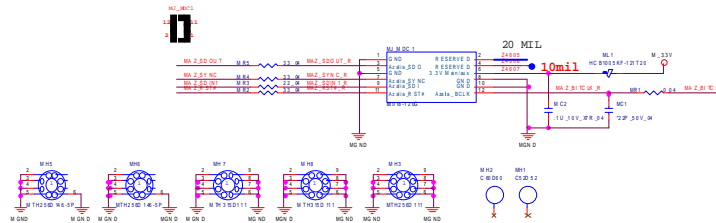
CCD



RJ-11

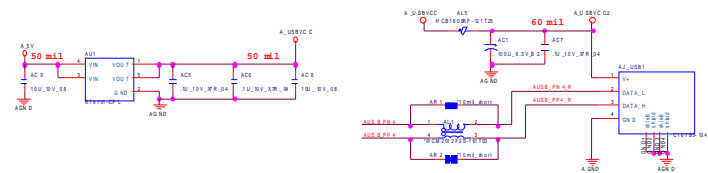


MDC MODULE

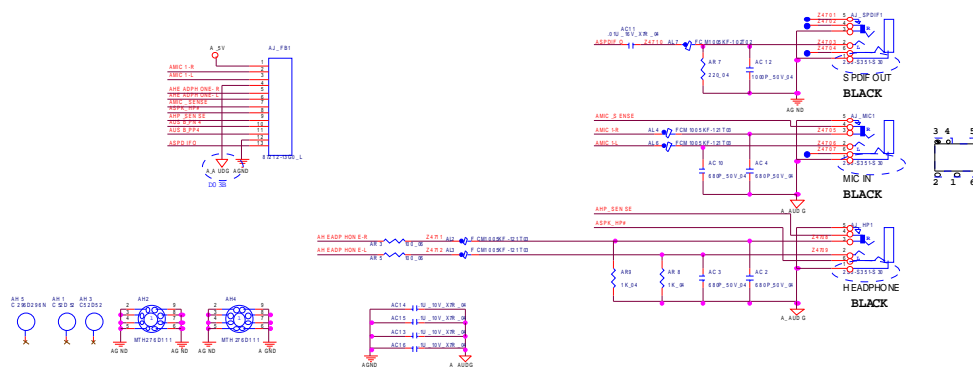


Audio Board

USB PORT



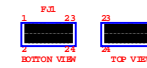
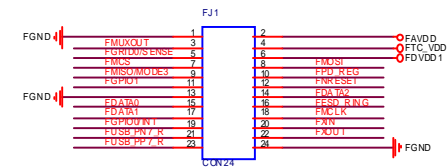
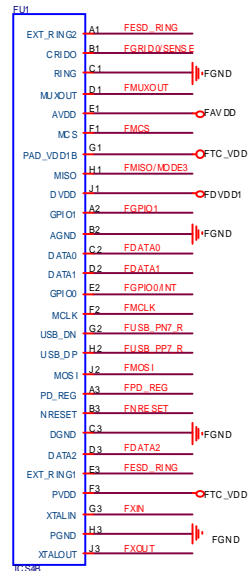
AUDIO JACK



Sheet 46 of 51
Audio Board

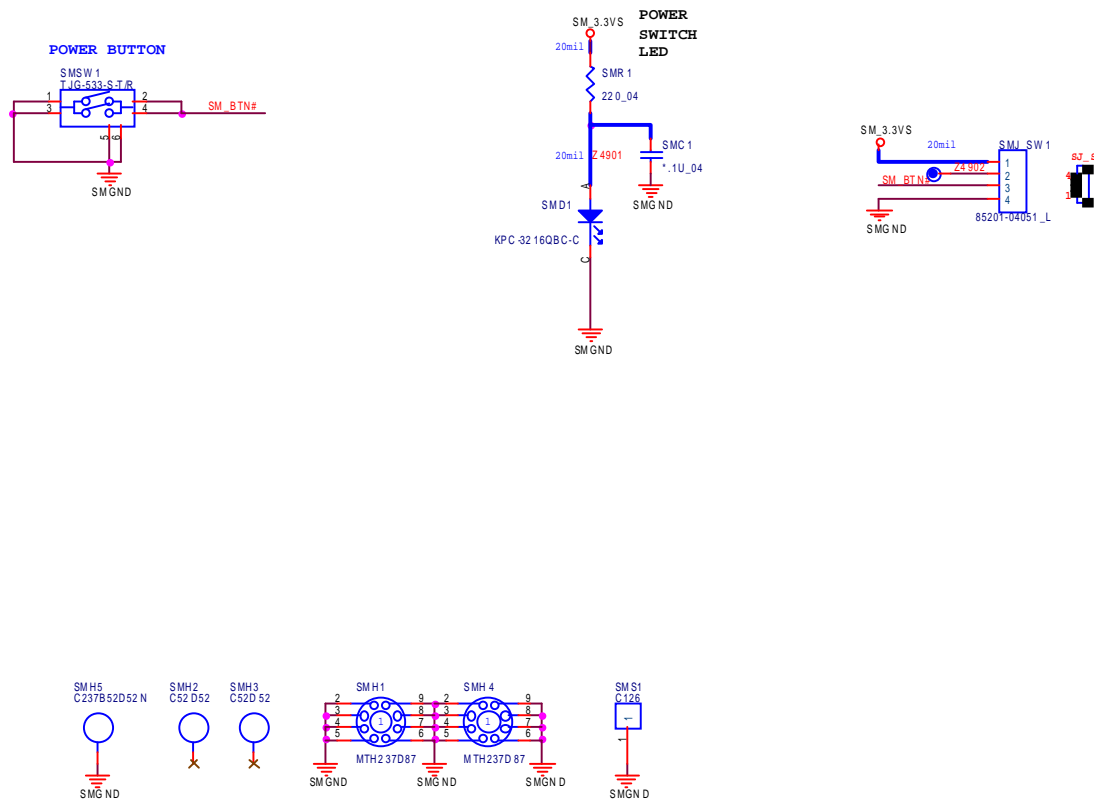
Finger Sensor Board for M76

Sheet 47 of 51
Finger Sensor
Board for M76



Power Switch Board for M74

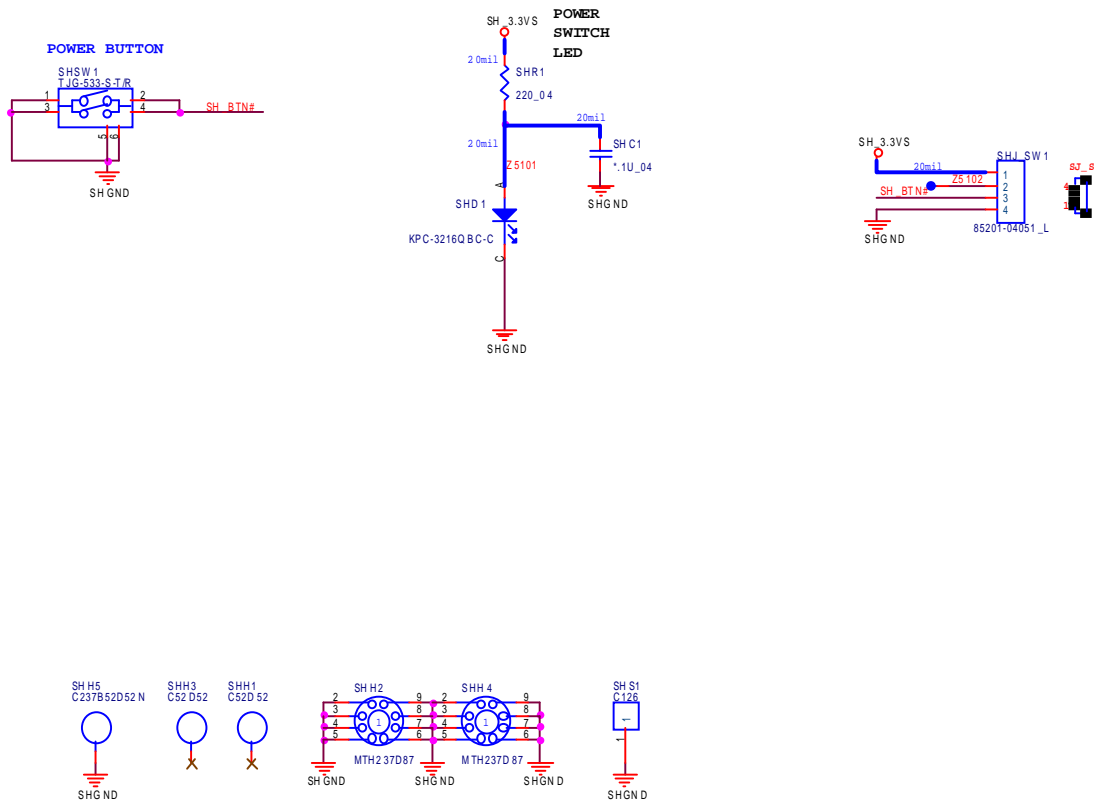
POWER SW & POWER LED FOR M74



Sheet 48 of 51
Power Switch
Board for M74

Power Switch Board for M76

POWER SW & POWER LED FOR M76

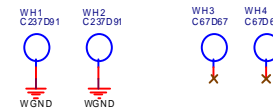
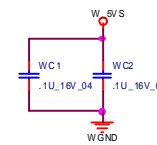
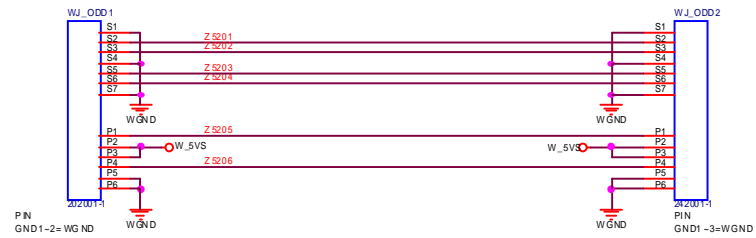


Sheet 50 of 51
Power Switch
Board for M76

External ODD Board for W76

ODD BOARD FOR W76

Sheet 51 of 51
External ODD
Board for W76



www.s-manuals.com