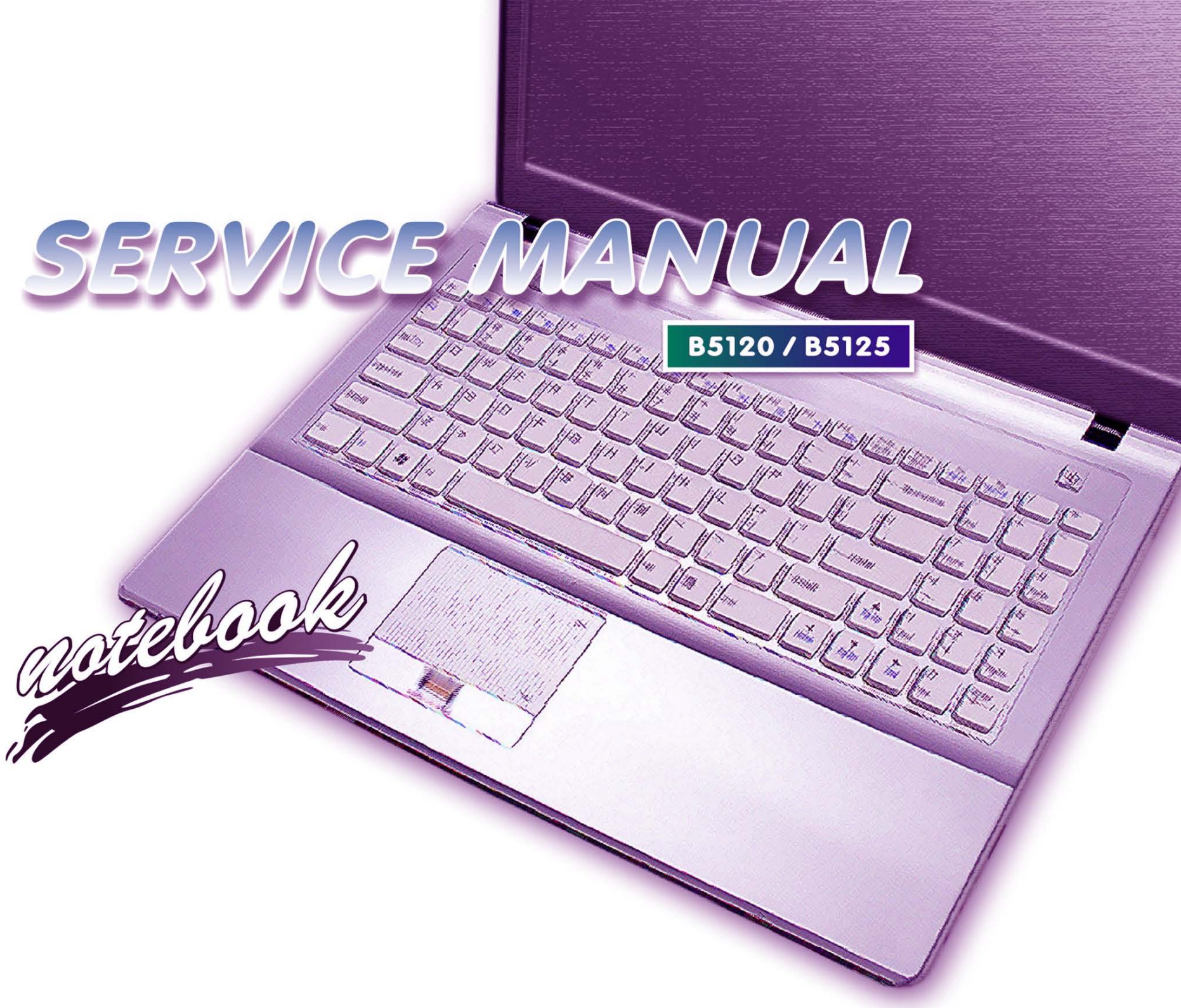
SERVICE MANUAL

B5120 / B5125

notebook



Notebook Computer

B5120/B5125

Service Manual

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About this Manual

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

It is organized to allow you to look up basic information for servicing and/or upgrading components of the ***B5120/B5125*** 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
Appendix C, Updating the FLASH ROM BIOS

IMPORTANT SAFETY INSTRUCTIONS

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

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

Do not expose the computer to any shock or vibration.	*Do not place it on an unstable surface.*	*Do not place anything heavy on the computer.*
		

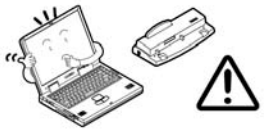
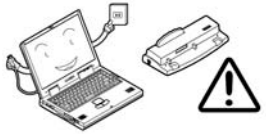
2. **Keep it dry, and don't overheat it.** Keep the computer and power supply away from any kind of heating element. This is an electrical appliance. If water or any other liquid gets into it, the computer could be badly damaged.

Do not expose it to excessive heat or direct sunlight.	*Do not leave it in a place where foreign matter or moisture may affect the system.*	*Don't use or store the computer in a humid environment.*	*Do not place the computer on any surface which will block the vents.*
			

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.

Do not turn off the power until you properly shut down all programs.	*Do not turn off any peripheral devices when the computer is on.*	*Do not disassemble the computer by yourself.*	*Perform routine maintenance on your computer.*
			

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**.

Use only approved brands of peripherals.	*Unplug the power cord before attaching peripheral devices.*
	

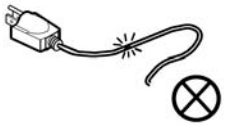
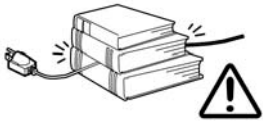
Power Safety

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.

Do not plug in the power cord if you are wet.	*Do not use the power cord if it is broken.*	*Do not place heavy objects on the power cord.*
		

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/DVD
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

1: Introduction

Overview

This manual covers the information you need to service or upgrade the ***B5120/B5125*** series notebook computer. Information about operating the computer (e.g. getting started, and the *Setup* utility) is in the *User's Manual*. Information about dri-vers (e.g. VGA & audio) is also found in the *User's Manual*. The manual is shipped with the computer.

Operating systems (e.g. *Windows Vista/ Window 7*, etc.) have their own manuals as do application softwares (e.g. word processing and database programs). If you have questions about those programs, you should consult those manuals.

The ***B5120/B5125*** 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 take note of the warning and safety information indicated by the "  " symbol.

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

Specifications

Latest Specification Information

The specifications listed here are correct at the time of sending them to the press. Certain items (particularly processor types/speeds) may be changed, delayed or updated due to the manufacturer's release schedule. Check with your service center for more details.

CPU

The CPU is not a user serviceable part. Accessing the CPU in any way may violate your warranty.

Processor Options

Intel® Core i7 Processor

i7-620M (2.66GHz)

4MB L3 Cache & 1066MHz FSB

Intel® Core i5 Processor

i5-540M (2.53GHz), i5-520M (2.4GHz),

i5-430M (2.26GHz)

3MB L3 Cache & 1066MHz FSB

Intel® Core i3 Processor

i3-350M (2.26GHz), i3-330M (2.13GHz)

3MB L3 Cache & 1066MHz FSB

Core Logic

Intel® HM55 Chipset

BIOS

One 32Mb SPI Flash ROM

Phoenix™ BIOS

LCD Options

15.6" HD/ HD+/ FHD TFT LCD

Memory

Two 204 Pin SO-DIMM Sockets Supporting **DDR3 1066MHz** Memory

Memory Expandable up to 4GB

Video Adapter

ATI Mobility Radeon™ HD 5470

1 GB of GDDR3 Video RAM

Microsoft DirectX® 11 Compatible

Security

BIOS Password

Security (Kensington® Type) Lock Slot

(**Factory Option**) Fingerprint Reader

Audio

High Definition Audio Compliant Interface

2 * Built-In Speakers

Built-In Microphone

Storage

(**Factory Option**) One Changeable 12.7mm(h) Optical Device Type Drive (Super Multi Drive Module or Blu-Ray Combo Drive Module)

One Changeable 2.5" 9.5 mm (h) **SATA** (Serial) HDD

Interface

Three USB 2.0 Ports

One eSATA Port

One HDMI-Out Port

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

One ExpressCard/34(54) Slot

Keyboard

Full-size “WinKey” keyboard (with numeric keypad)

Pointing Device

Built-in Touchpad (scrolling key functionality integrated)

Communication

Built-In Gigabit Ethernet LAN

(**Factory Option**) 56K MDC Modem, V.90 & V.92 Compliant

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

(**Factory Option**) Bluetooth 2.1 + EDR Module

(**Factory Option**) 3.75G/HSPA Half Mini-Card Module

Wireless LAN Module Options:

(**Factory Option**) Intel® WiFi Link 6200 (802.11a/g/n) Wireless LAN Half Mini-Card Module

(**Factory Option**) Third-Party 802.11b/g/n Wireless LAN Half Mini-Card Module

Mini Card Slots

Slot 1 for **WLAN** Module

(**Factory Option**) Slot 2 for **3.75G/HSPA** Module

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

Power

Full Range AC/DC Adapter

AC Input: 100 - 240V, 50 - 60Hz

DC Output: 19V, 4.74A (**90W**)

6 Cell Smart Lithium-Ion Battery Pack, 48.84WH

(**Factory Option**) 9 Cell Smart Lithium-Ion Battery Pack, 73.26WH

Environmental Spec

Temperature

Operating: 5°C - 35°C

Non-operating: -20°C - 60°C

Relative Humidity

Operating: 20% - 80%

Non-Operating: 10% - 90%

Dimensions & Weight

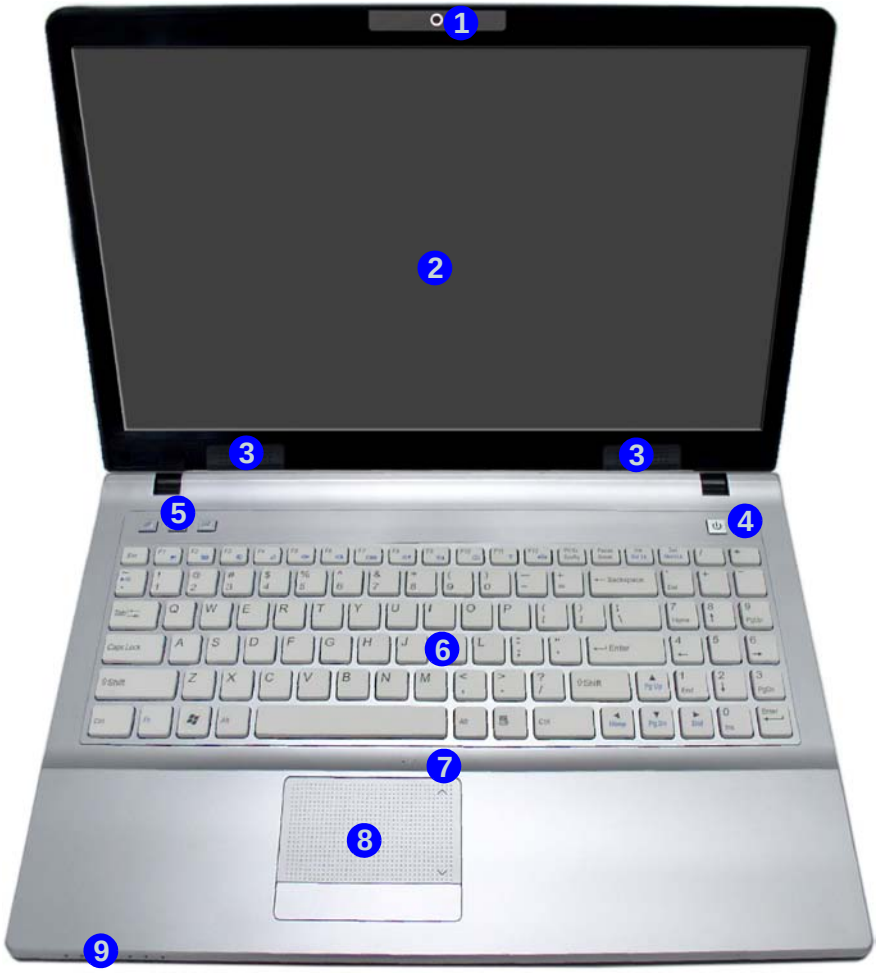
374mm (w) * 256mm (d) * 37.9mm (h)

2.6 kg With 6 Cell Battery & ODD

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 Modem Jack
7. Security Lock Slot

External Locator - Left Side & Rear View

Figure 4
Left Side View

1. DC-In Jack
2. External Monitor Port
3. RJ-45 LAN Jack
4. eSATA Port
5. HDMI-Out Port
6. Vent
7. 2 * USB 2.0 Ports
8. ExpressCard/ 54(34) Slot
9. 7-in-1 Card Reader

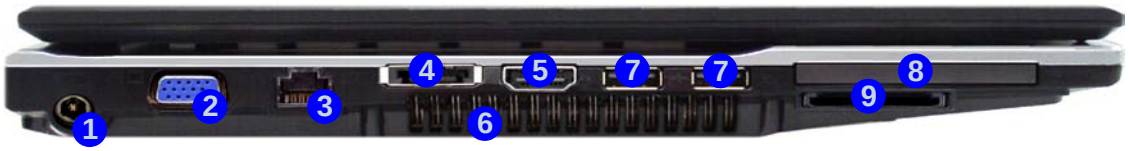


Figure 5
Rear View

1. Battery

External Locator - Bottom View

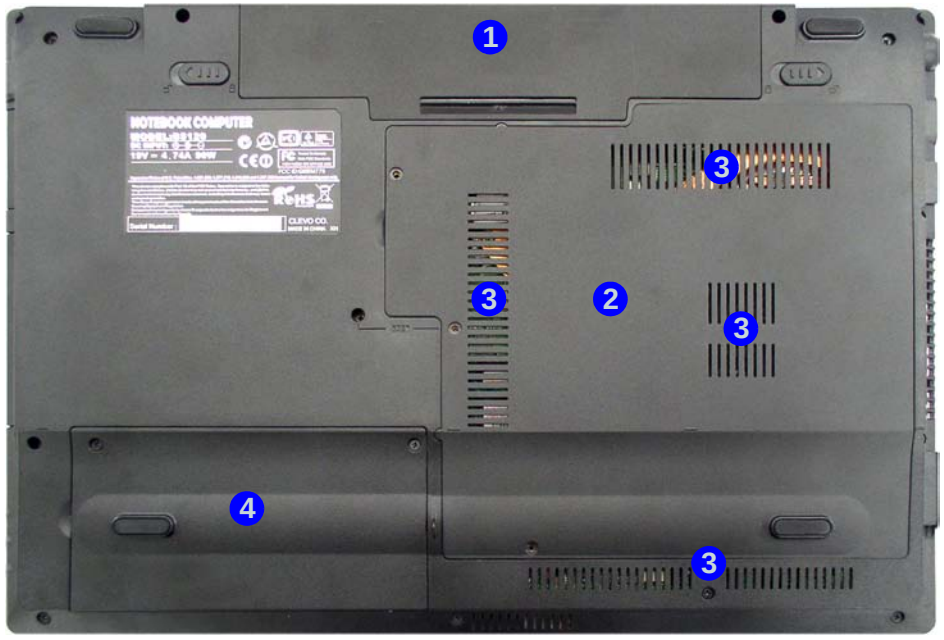


Figure 6
Bottom View

1. Battery
2. RAM & CPU Bay Cover
3. Vent
4. Hard Disk Bay Cover

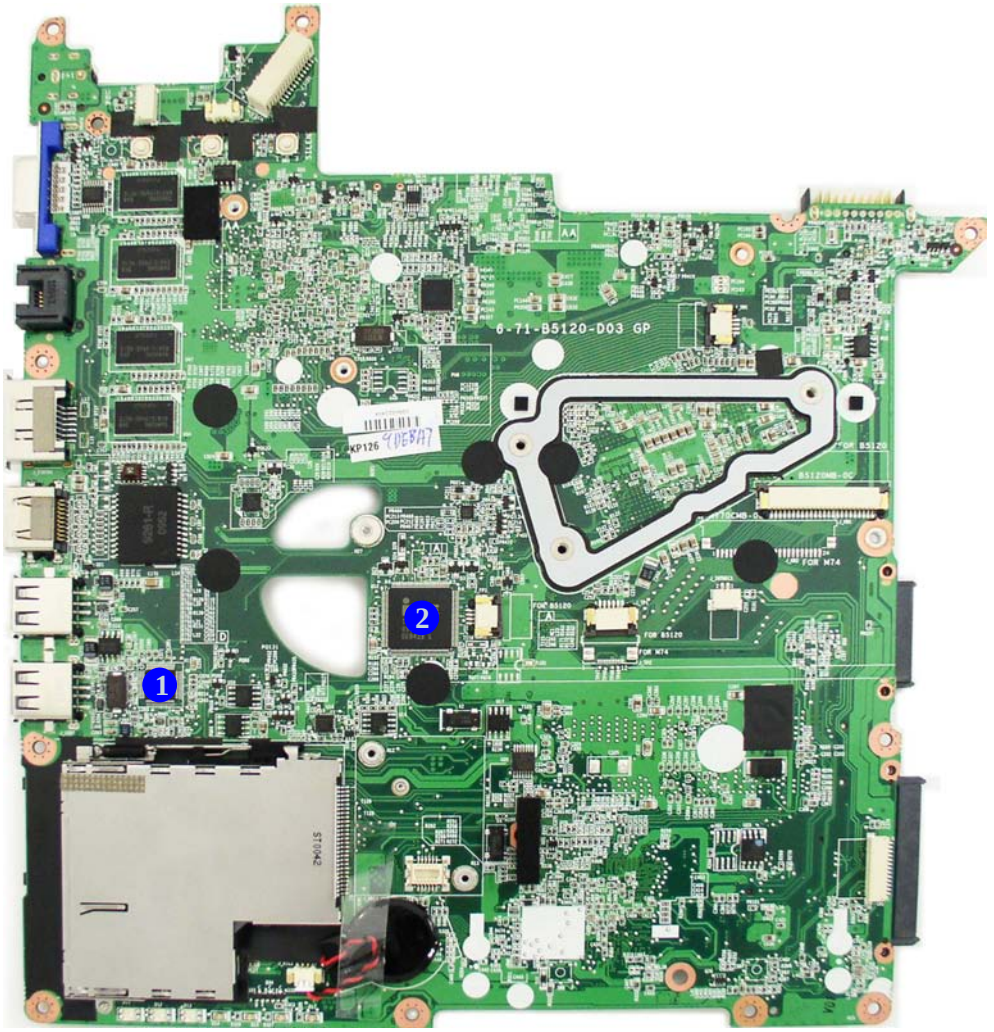
Overheating

To prevent your computer from overheating, make sure nothing blocks any vent while the computer is in use.

Mainboard Overview - Top (Key Parts)

Figure 7
Mainboard Top Key Parts

1. JMC251
2. KBC-ITE IT8502E



Mainboard Overview - Bottom (Key Parts)

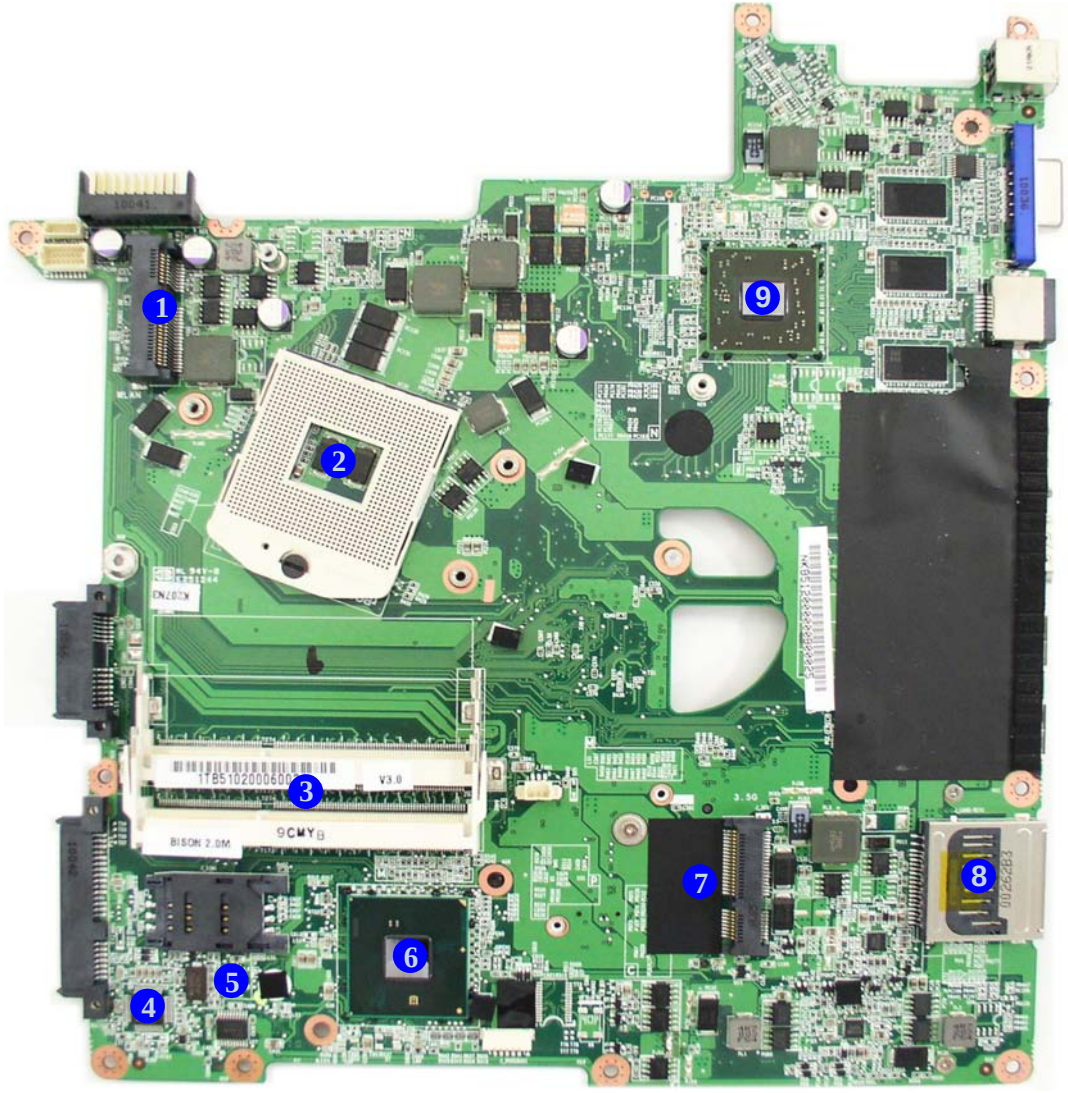


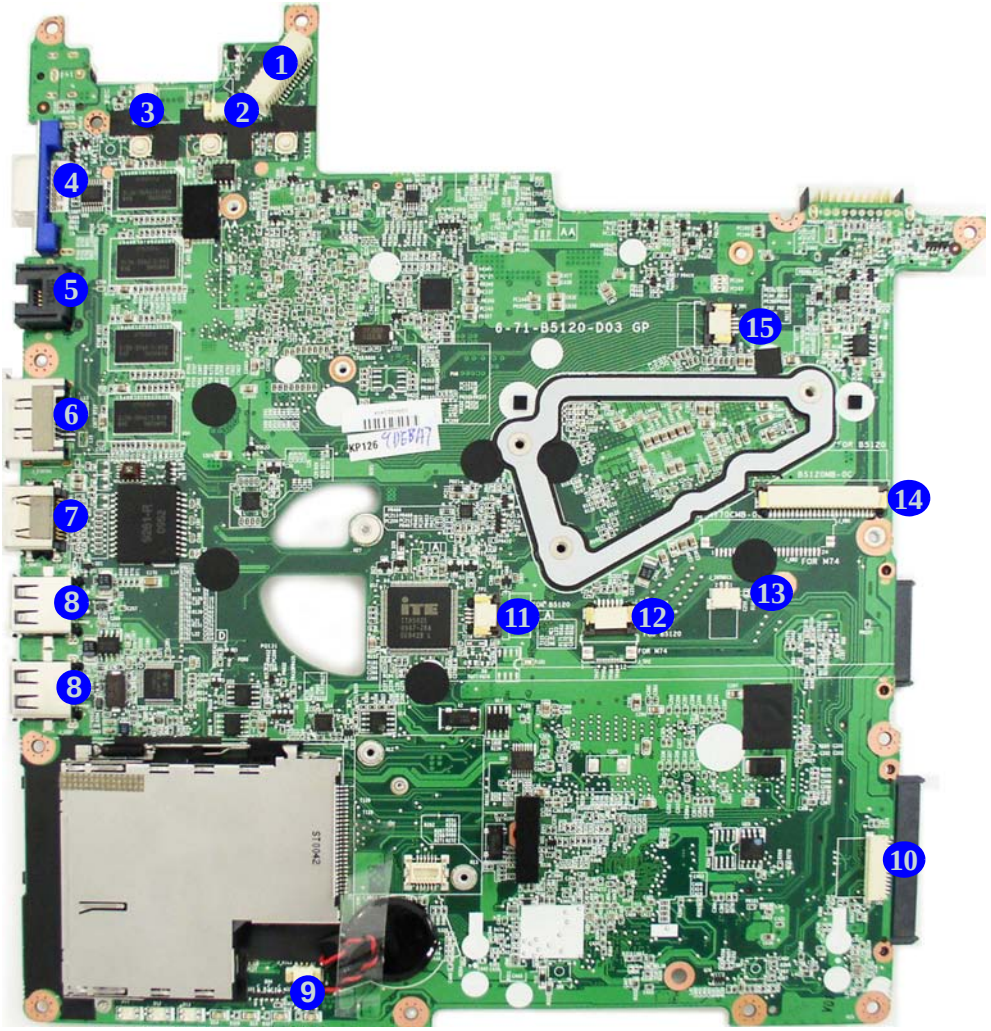
Figure 8
Mainboard Bottom Key Parts

1. Mini-Card Connector (WLAN Module)
2. CPU Socket (no CPU installed)
3. Memory Slots DDR3 SO-DIMM
4. Azalia Codec
5. Clock Generator
6. Platform Controller Hub
7. Mini-Card Connector (3.5G Module)
8. Card Reader Socket
9. VGA

Mainboard Overview - Top (Connectors)

Figure 9
Mainboard Top Connectors

1. LCD Cable Connector
2. Speaker Cable Connector
3. Inverter board Connector
4. External Monitor Port
5. RJ-45 LAN Jack
6. eSATA Port
7. HDMI-Out Port
8. USB Port
9. CMOS Battery Connector
10. Multi-board Connector 1
11. Fingerprint Cable Connector
12. TouchPad Cable Connector
13. Microphone Cable Connector
14. Keyboard Cable Connector
15. Switch Connector



Mainboard Overview - Bottom (Connectors)

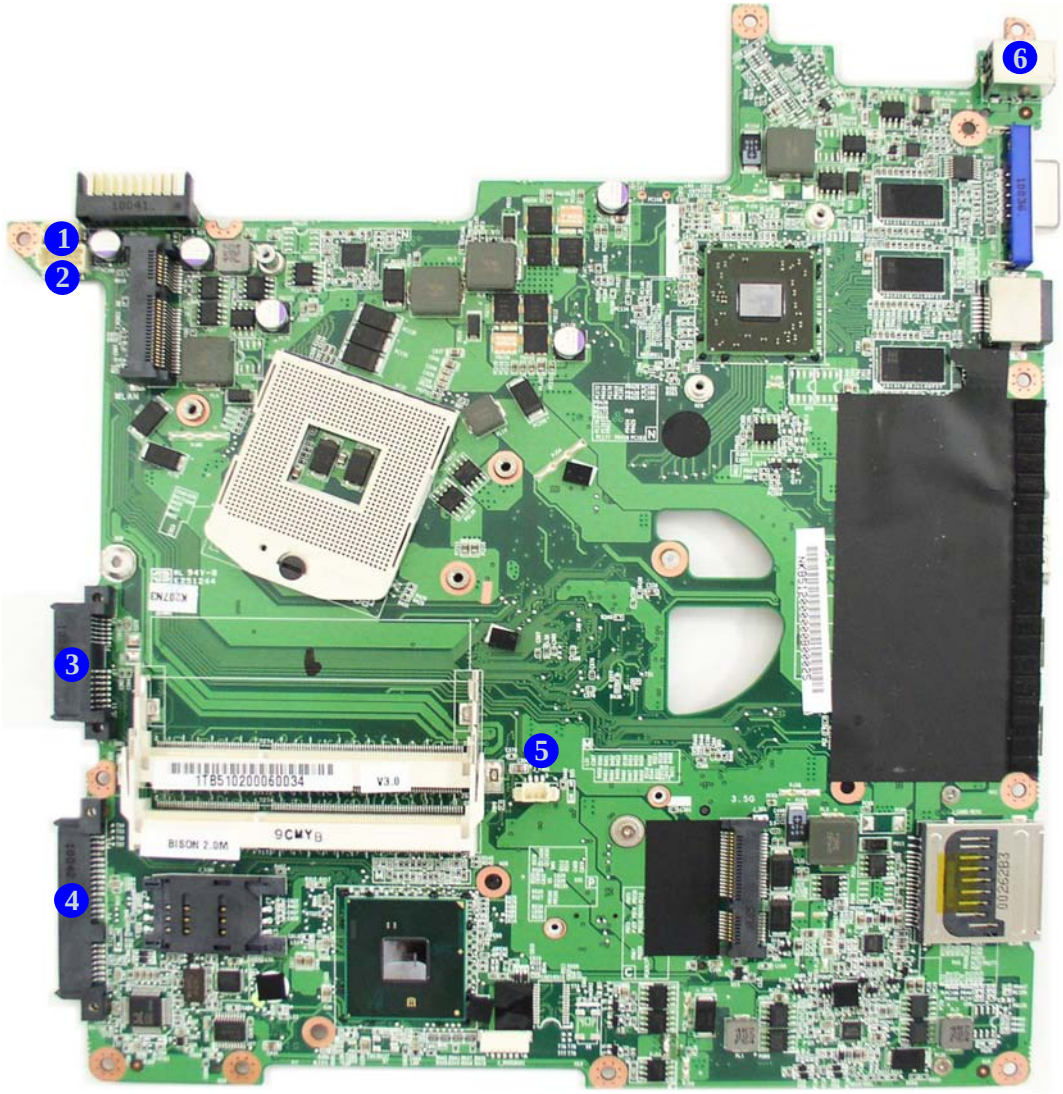


Figure 10
Mainboard Bottom Connectors

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

Chapter 2: Disassembly

Overview

This chapter provides step-by-step instructions for disassembling the ***B5120/B5125*** series notebook's parts and subsystems. When it comes to reassembly, reverse the procedures (unless otherwise indicated).

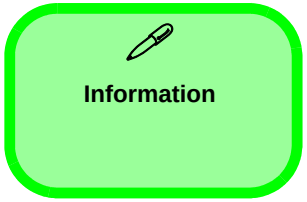
We suggest you completely review any procedure before you take the computer apart.

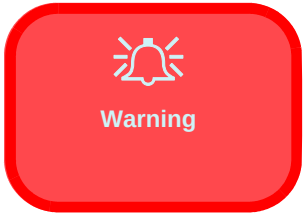
Procedures such as upgrading/replacing the RAM, optical device and hard disk are included in the User's Manual but are repeated here for your convenience.

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.





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.

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.

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.

Disassembly Steps

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

To remove the Battery:

1. Remove the battery *page 2 - 5*

To remove the HDD:

1. Remove the battery *page 2 - 5*
2. Remove the HDD *page 2 - 6*

To remove the Optical Device:

1. Remove the battery *page 2 - 5*
2. Remove the Optical device *page 2 - 8*

To remove the System Memory:

1. Remove the battery *page 2 - 5*
2. Remove the system memory *page 2 - 9*

To remove the Inverter Board:

1. Remove the battery *page 2 - 5*
2. Remove the inverter board *page 2 - 11*

To remove and install a Processor:

1. Remove the battery *page 2 - 5*
2. Remove the processor *page 2 - 12*
3. Install the processor *page 2 - 14*

To remove the Wireless LAN Module:

1. Remove the battery *page 2 - 5*
2. Remove the wireless LAN *page 2 - 15*

To remove the Bluetooth Module:

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

To remove the Keyboard:

1. Remove the battery *page 2 - 5*
2. Remove the keyboard *page 2 - 17*

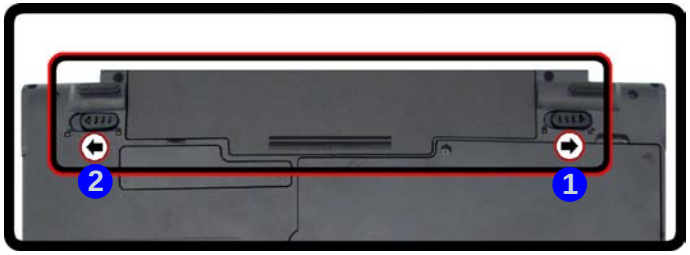
To remove the Modem:

1. Remove the battery *page 2 - 5*
2. Remove the HDD *page 2 - 6*
3. Remove the Optical device *page 2 - 8*
4. Remove the processor *page 2 - 12*
5. Remove the keyboard *page 2 - 17*
6. Remove the modem *page 2 - 18*

Removing the Battery

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

a.



b.

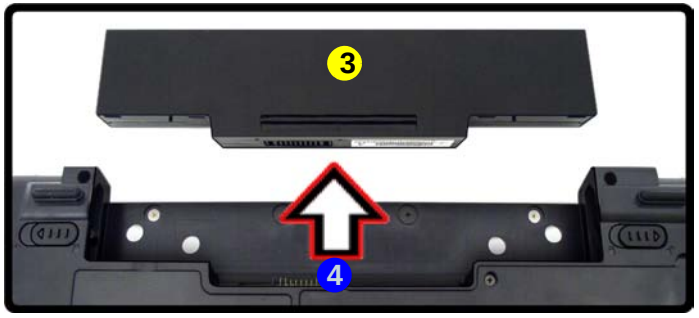


Figure 1
Battery Removal

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

3. Battery

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

a. Locate the HDD bay cover and remove the screws.

Hard Disk Upgrade Process

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

a.

- 2 Screws

HDD System Warning

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

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

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

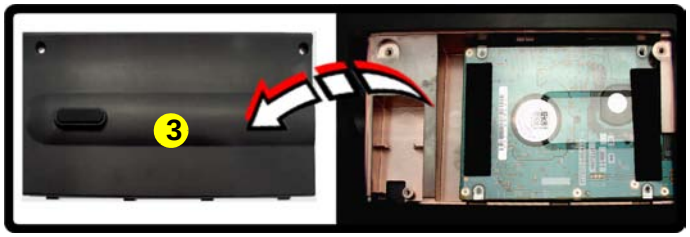
If you have access to the internet, download the latest application and hardware driver updates for the operating system you plan to install. Copy these to a removable medium.

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

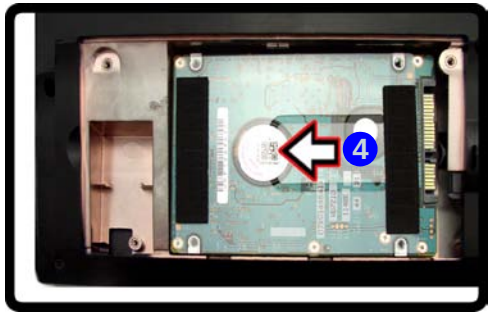
Figure 3
HDD Assembly Removal (cont'd.)

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

b.

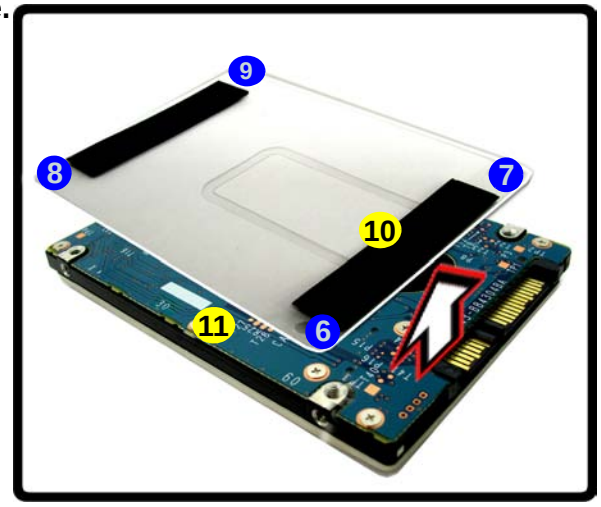


c.



d.

e.



3. HDD Bay Cover
10. Adhesive Cover
11. HDD

- 4 Screws

Figure 4
Optical Device Removal

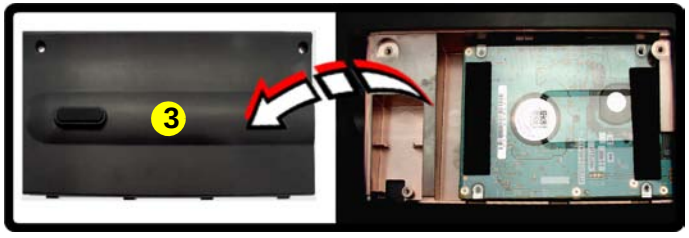
a. Remove the screws.
b. Remove the HDD bay cover.
c. Remove the screw.
d. Push the optical device out off the computer at point 6.

Removing the Optical (CD/DVD) Device

1. Turn **off** the computer, and remove the battery (***page 2 - 5***).
2. Locate the hard disk bay cover and remove screws 1 & 2 (***Figure 4a***).
3. Remove the hard disk bay cover 3 (***Figure 4b***).
4. Remove the screw at point 4 (***Figure 4c***), and use a screwdriver to carefully push out the optical device 5 at point 6 (***Figure 4d***).
5. Insert the new device and carefully slide it into the computer (the device only fits one way. DO NOT FORCE IT; The screw holes should line up).
6. Restart the computer to allow it to automatically detect the new device.

a.

b.



c.

d.

3. HDD Bay Cover
5. Optical Device

- 3 Screws

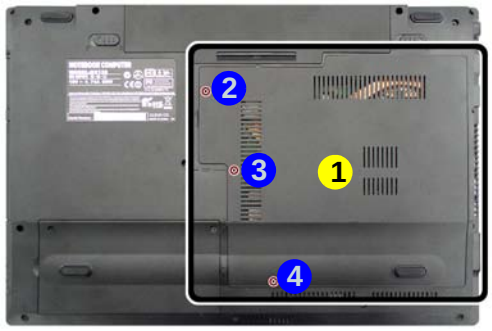
Removing the System Memory (RAM)

The computer has two memory sockets for 204 pin Small Outline Dual In-line Memory Modules (SO-DIMM) supporting DDR3 1066MHz. The main memory can be expanded up to 4GB. The SO-DIMM modules supported are 1024MB, and 2048MB and **DDRIII** Modules. The total memory size is automatically detected by the POST routine once you turn on your computer.

Memory Upgrade Process

1. Turn **off** the computer, remove the battery (***page 2 - 5***).
2. Locate the component bay cover 1, and remove screws 2 - 4 (***Figure 5a***).
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 5b***).

a.



b.

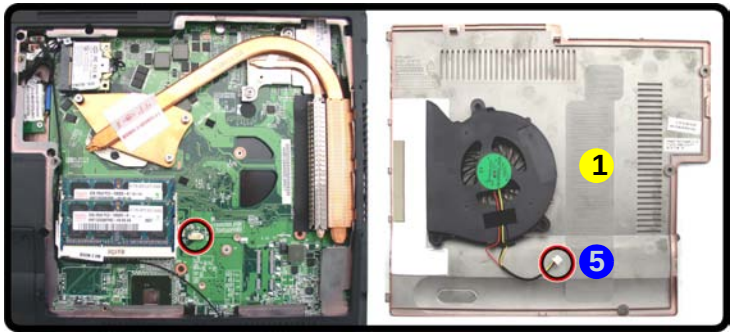


Figure 5
RAM Module Removal

a. Remove the screws.
b. Disconnect the fan cable and remove the bay 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

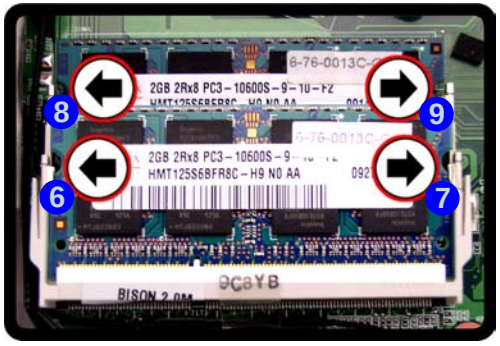
- 3 Screws

Figure 6
RAM Module Removal (cont'd.)

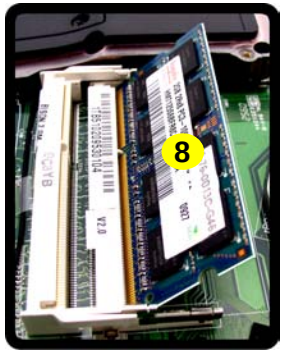
c. Pull the release latches.
d. Remove the module(s).

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

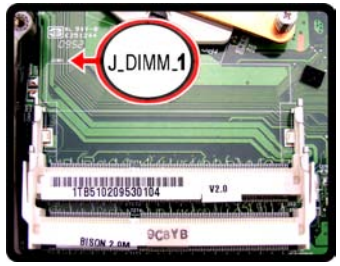
c.



d.



e.



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 6e***.

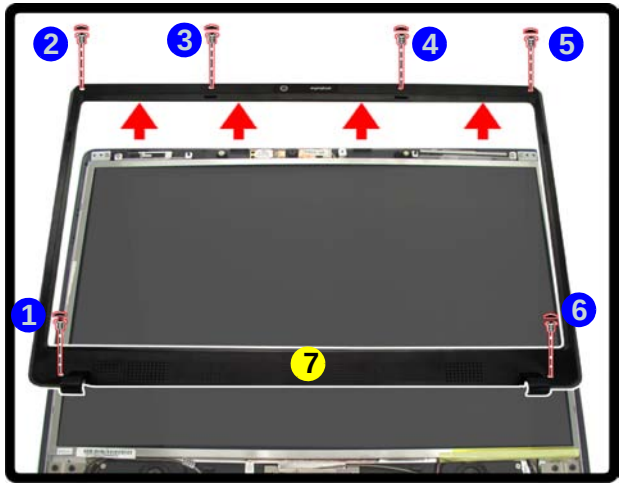
6. Pull the latches (8 - 9) to release the second module if necessary (***Figure 6c***)..
7. The RAM module 8 will pop-up (***Figure 6d***), and you can then remove it
8. Insert a new module holding it at about a 30° angle and fit the connectors firmly into the memory slot.
9. The module's pin alignment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

8. RAM Module(s)

Removing the Inverter Board

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

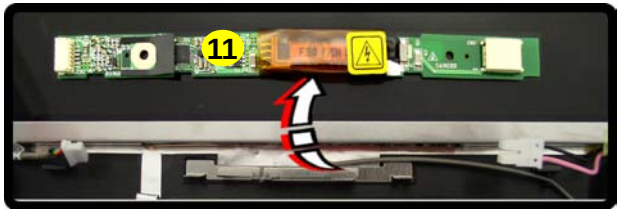
a.



b.

c.

d.



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 7
Inverter Board Removal

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

7. LCD Front Panel
11. Inverter Board

- 7 Screws

Removing and Installing the Processor

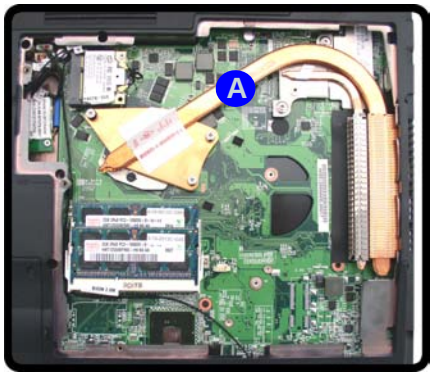
Processor Removal Procedure

1. Turn **off** the computer, remove the battery (***page 2 - 5***) and the component bay cover (***page 2 - 9***).
2. The CPU heat sink will be visible at point A (***Figure 8a***) on the mainboard.
3. Loosen screws 3 , 2 ,1 (***Figure 8b***) the reverse order to that indicated on the label.
4. Carefully lift up the heat sink B (***Figure 8c***) off the computer.

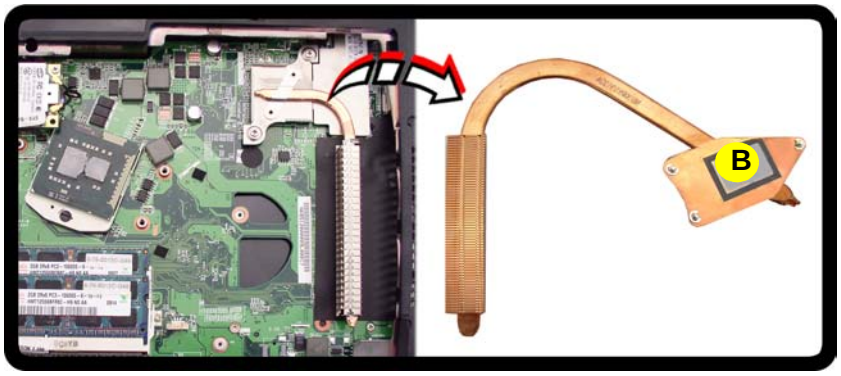
Figure 8
Processor Removal

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

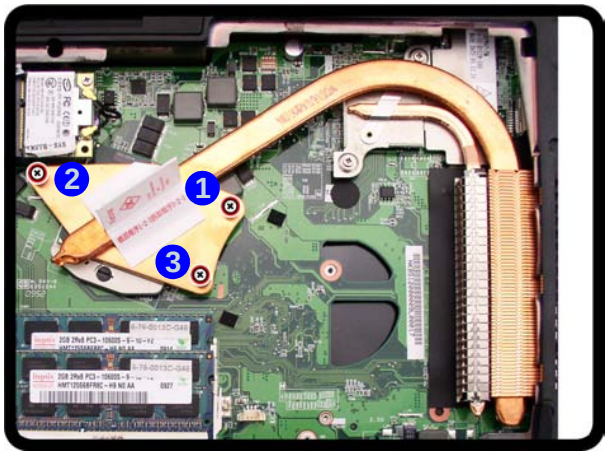
a.



c.



b.



B. Heat Sink

- 3 Screws (Loosen Only)

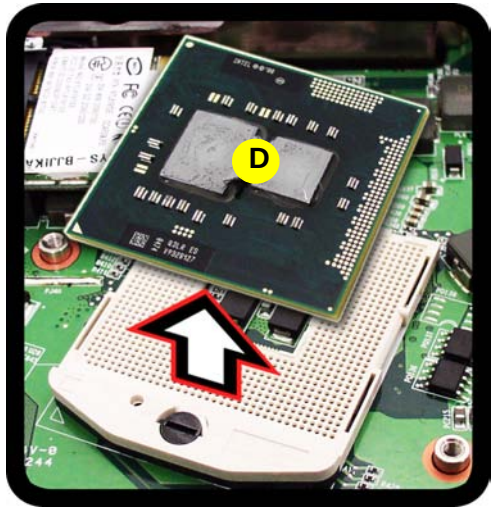
5. Turn the release latch C towards the unlock symbol, to release the CPU (*Figure 9d*).
6. Carefully (it may be hot) lift the CPU D up out of the socket (*Figure 9e*).
7. See *page 2 - 14* for information on inserting a new CPU.
8. When re-inserting the CPU, pay careful attention to the pin alignment, it will fit only one way (DO NOT FORCE IT!).

Figure 9
Processor Removal (cont'd)

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

d.

e.



Caution

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

D. CPU

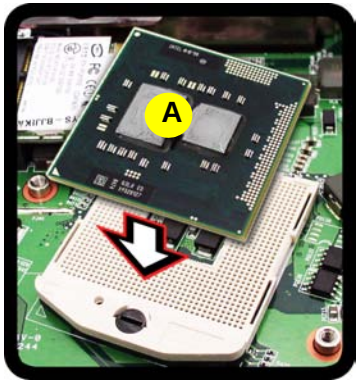
Figure 10
Processor Installation

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 in the order indicated on the label.

Processor Installation Procedure

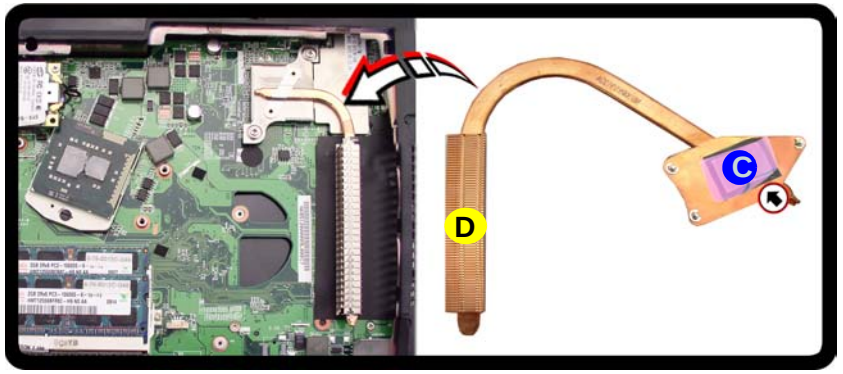
1. Insert the CPU A (***Figure 10a***), pay careful attention to the pin alignment, it will fit only one way (DO NOT FORCE IT!), and turn the release latch B towards the lock symbol (***Figure 10b***).
2. **Remove the sticker** C (***Figure 10c***) from the heat sink.
3. Insert the heat sink D as indicated in (***Figure 10c***).
4. Tighten screws 1 - 3 (***Figure 10d***) in the order indicated on the label.
5. Replace the component bay cover and tighten the screws (***page 2 - 9***).

a.

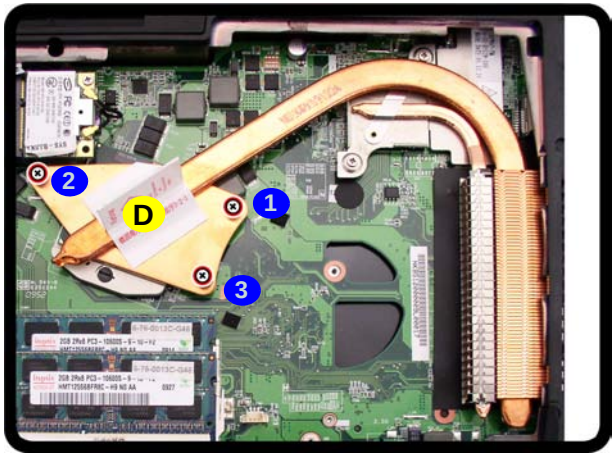


b.

c.



d.



A. CPU
D. Heat Sink

- 3 Screws (Tighten Only)

Removing the Wireless LAN Module

1. Turn **off** the computer, remove the battery (*page 2 - 5*) and the component bay cover (*page 2 - 9*).
2. The Wireless LAN module will be visible at point 1 (*Figure 11a*) on the mainboard.
3. Carefully disconnect cables 2 - 3, then remove screw 4 from the module socket (*Figure 11b*).
4. The Wireless LAN module 5 (*Figure 11c*) will pop-up.
5. Lift the Wireless LAN module (*Figure 11d*) up and off the computer.

a.

b.

c.

d.

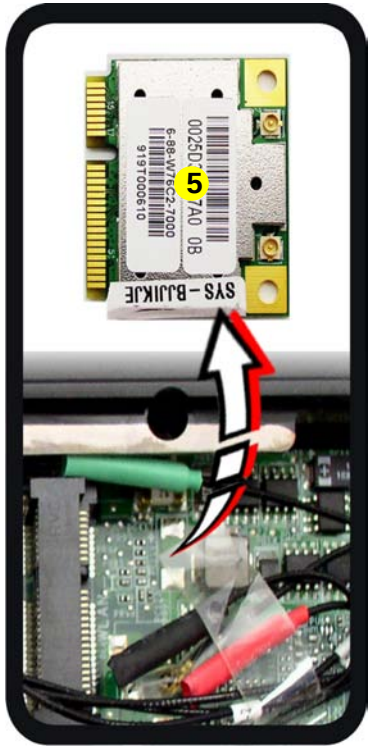


Figure 11
Wireless LAN Module Removal

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

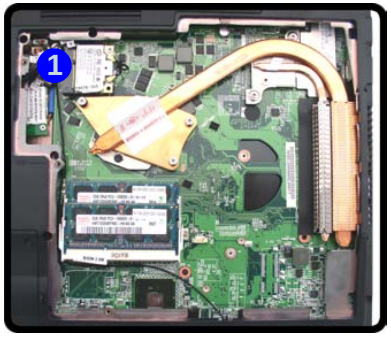
Figure 12
Bluetooth Module Removal

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

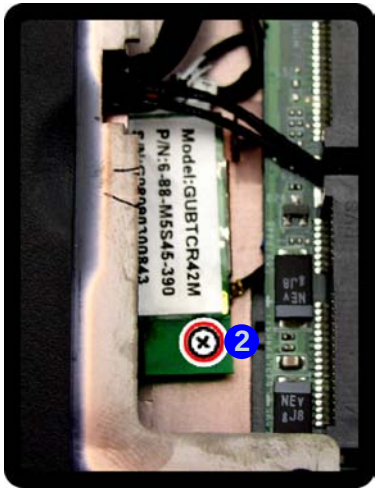
Removing the Bluetooth Module

1. Turn **off** the computer, remove the battery (***page 2 - 5***) and the component bay cover (***page 2 - 9***).
2. The Bluetooth will be visible at point 1 (***Figure 12a***) on the mainboard.
3. Remove the screw 2 (***Figure 12b***) and turn the module over.
4. Carefully separate the Bluetooth module from the connector 3 and disconnect the cable 4 (***Figure 12c***).
5. Lift the Bluetooth module 5 (***Figure 12d***) up and off the computer.

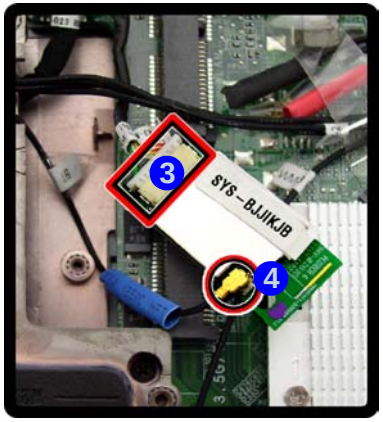
a.



b.



c.



d.

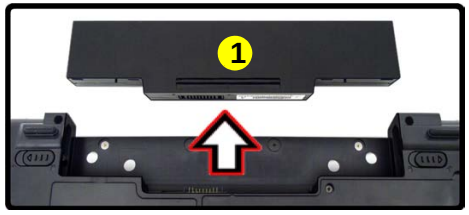
5. Bluetooth Module

- 1 Screw

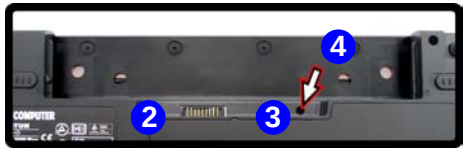
Removing the Keyboard

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

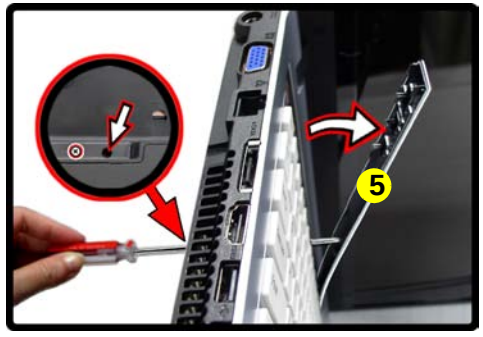
a.



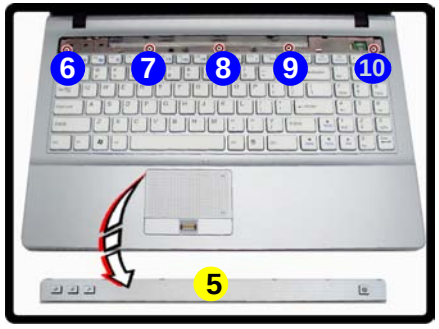
b.



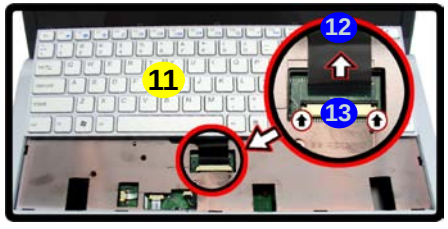
c.



d.



e.



f.

Figure 13
Keyboard Removal

a. Remove the battery.
b. Remove the screws and use a screwdriver to carefully push out the top cover module at point 4.
c. Remove the top cover module.
d. Remove the screws.
e. Lift the keyboard up and disconnect the cable from the locking collar.
f. Remove the keyboard.

1. Battery
5. Top cover module
11. Keyboard

- 7 Screws

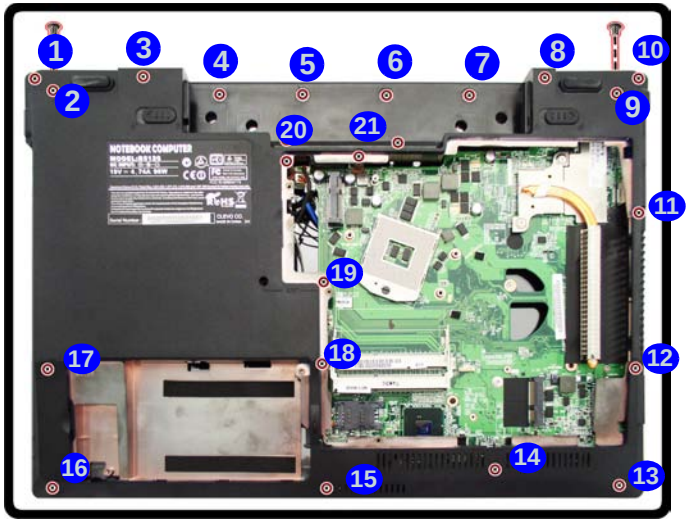
Removing the Modem

Figure 14
Modem Removal

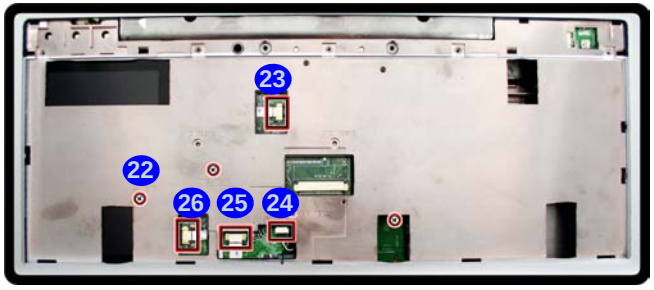
a. Remove the screws.
b. Turn the computer over, remove the screw and disconnect the cables.

1. Turn **off** the computer, remove the battery (*page 2 - 5*), HDD (*page 2 - 6*), component bay cover (*page 2 - 9*), optical device (*page 2 - 8*), CPU (*page 2 - 12*), bluetooth (*page 2 - 16*) and keyboard (*page 2 - 17*).
2. Remove screws 1 - 21 from the bottom case (*Figure 14a*).
3. Turn the computer over, remove screw 22 and disconnect cables 23 - 26 (*Figure 14b*).

a.



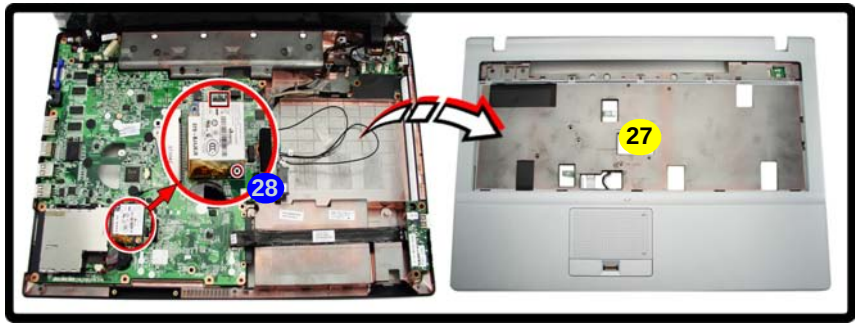
b.



- 22 Screws

4. Carefully lift the top case 27 up and off the computer (*Figure 15c*).
5. Remove screw 28 from the module and disconnect cable (*Figure 15c*).
6. Carefully lift the modem 29 up and off the socket (*Figure 15d*).

c.



d.

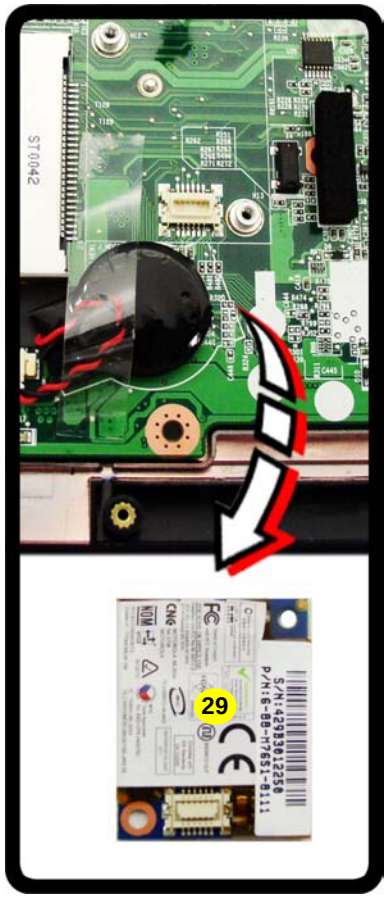


Figure 15
Modem Removal (cont'd.)

c. Lift the top case off the computer.
d. Remove screw and disconnect cable.
e. Lift the modem off the socket.

27. Top Case
29. Modem

- 1 Screw

Appendix A: Part Lists

This appendix breaks down the ***B5120/B5125*** 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.

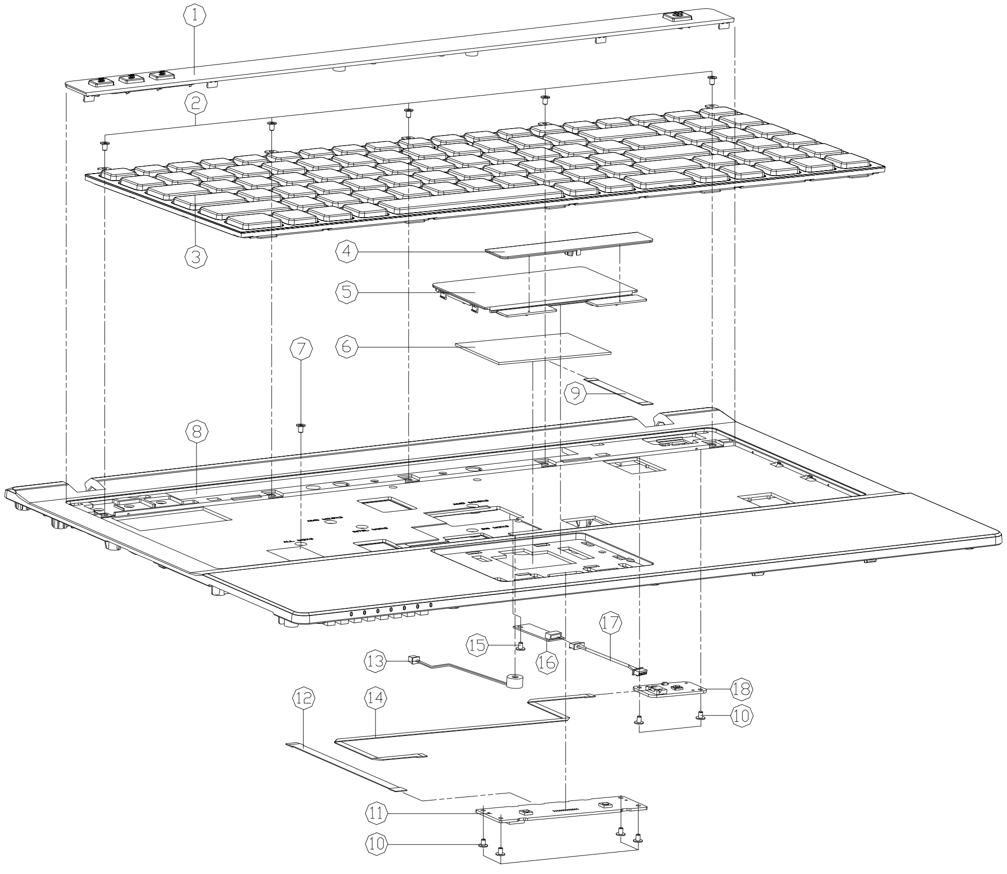
Note: Be sure to check any update notices. The parts shown in these illustrations are appropriate for the system at the time of publication. Over the product life, some parts may be improved or re-configured, resulting in *new* part numbers.

PART LIST ILLUSTRATION LOCATION

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

Table A- 1
PART LIST ILLUSTRATION LOCATION

B5120 TOP WITHOUT FINGERPRINT



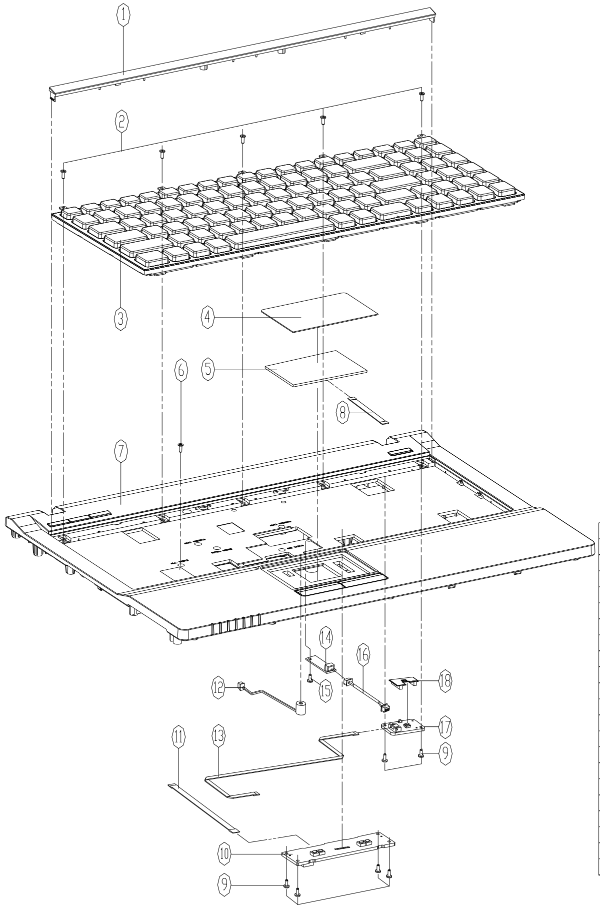
ITEM	PART NAME	PART NO	REMARK
1	TOP COVER MODULE W760S 無鉛	6-42-W76S2-801	
2	SCREW M2*2.5L KI BK/Z ICT NYø3.5 T=0.3 無鉛	6-35-B6120-2RB	
3	K/B USA(白色)&FRAME (US) MODULE W760S/W760SU/W760S-C/W760SUA/W760TU/W760T/W760K/W760KU 無鉛	6-79-W760S00K-010	
4	CLICK BUTTON COVER W/O FP MODULE W760S 無鉛	6-42-W76S2-200	
5	CLICK BUTTON PLATE PC+ABS (SABIC CM6140 701DE) W760S 無鉛	6-42-W76S2-012	
6	TOUCH PAD TM-00398-003 W840T 無鉛	6-49-W84T2-020	
7	SCREW M2*3L KI BZ ICT NY (DD=ø4.5,DT=0.4) 無鉛	6-35-B6120-3RD	
8	TOP CASE MODULE W760S 無鉛	6-39-W76S2-014	
9	FFC CABLE FOR CLICK BOARD TO TOUCH PAD 54MM 12PIN FOR M760S 無鉛	6-43-M76S0-041	
10	*(非耐落)SCREW M2*3L K1 NI ICT GTY-PATCH 無鉛	6-35-B1120-3RE	
11	CLICK BOARD V1.0 (W/O FP) M770CU 無鉛	6-77-M77C2-D01-1	
12	FFC CABLE 6PIN M/B TO CLICK BOARD FOR W760S 無鉛	6-43-W76S0-020-1	
13	MIC 6MM*3.5 2V~10V 2.2K W/CABLE (EM6035-FOL-U) M620NE 無鉛	6-23-EM62E-010-2	
14	FFC CABLE FOR M/B TO SWITCH BOARD 1.0PITCH 260MM 4PIN FOR W760S 無鉛	6-43-W76S0-010-1	
15	*(非耐落)SCREW M2*3L KI NI ICT GTY-PATCH (DD=ø4.0,DT=0.8) 無鉛	6-35-B1120-3RD	
16	BLUETOOTH V2.1 QUBTCR4QM-MS 藍天/互億 8 PIN USB CSR BC04_A07 WITH MS BT SOFTWARE M730T 無鉛	6-88-M73T5-3901	(OPTION)
16	BLUETOOTH V2.1 BTC04R281B 凱碩 8 PIN USB CSR BC04 A07 (4839) WITH MS BT 無鉛	6-88-M77C5-5300	(OPTION)
17	WIRE CABLE 6PIN M/B TO 8PIN BLUETOOTH MODULE 50MM FOR M760S 無鉛	6-43-M76SB-011	(OPTION)
18	POWER SWITCH BOARD V3.0 M740S 無鉛	6-77-M74SS-D03	

Figure A - 1
B5120 TOP WITHOUT FINGERPRINT

A.Part Lists

B5125 TOP WITHOUT FINGERPRINT

Figure A - 2
B5125 TOP WITHOUT FINGERPRINT



ITEM	PART NAME	PART NO	REMARK
1	TOP COVER PC+ABS (SABIC CM6140 701DE)W765S 無鉛	6-42-W7652-080	
2	SCREW M2x2.5L K1 BK/Z ICT NYø3.5 T=0.3 無鉛	6-35-B6120-2RB	
3	K/B USA (黑色)& FRAME (US) MODULE W765S 無鉛	6-79-W765S00K-010	
3	K/B KOREA (黑色)& FRAME (US) MODULE W765CUF 無鉛	6-79-W765S00K-110-T	
4	MYLAR FOR TOUCH PAD HF200 W765S 無鉛	6-40-W7652-021	
5	TOUCH PAD TM-00398-003 W840T 無鉛	6-49-W84T2-020	
6	SCREW M2x3L K1 BZ ICT NY (OD=ø4.5,DT=0.4) 無鉛	6-35-B6120-3RD	
7	TOP CASE MODULE(W/O FINGER)W765S(RIB 修改)無鉛	6-39-W7652-024	
7	[illegible] 無鉛	6-39-W7652-024-M	
8	FFC CABLE FOR CLICK BOARD TO TOUCH PAD 54MM 12PIN FOR W760S 無鉛	6-43-M76S0-041	
9	[illegible] SCREW M2x3L K1 NI ICT GTY-PATCH 無鉛	6-35-B1120-3RE	
10	CLICK BOARD V1.0 (W/O FP) M770CU 無鉛	6-77-M77C2-D01-1	
11	FFC CABLE 6PIN M/B TO CLICK BOARD FOR W760S 無鉛	6-43-W76S0-020-1	
12	MIC 6MMx3.5 2V~10V 2.2K W/CABLE (EM6035-FOL-10 M620NE 無鉛	6-23-EM62E-010-2	
13	FFC CABLE FOR M/B TO SWITCH BOARD 0.5PITCH 260MM 4PIN FOR W760S 無鉛	6-43-W76S0-010-1	
14	[illegible] 無鉛	6-88-M73T5-3901	(OPTION)
14	BLUETOOTH V2.0 [illegible] 無鉛	6-88-M77C5-5300	(OPTION)
15	[illegible] SCREW M2x3L K1 NI ICT GTY-PATCH (OD=ø4.0,DT=0.8) 無鉛	6-35-B1120-3RD	
16	WIRE CABLE 6PIN M/B TO 8PIN BLUETOOTH MODULE 50MM FOR W760S 無鉛	6-43-M76SB-011	(OPTION)
17	POWER SWITCH BOARD V3.0 M740S 無鉛	6-77-M74SS-D03	
18	AL FOIL MYLAR FOR POWER W765S 無鉛	6-40-W7652-050	

B5120 TOP WITH FINGERPRINT

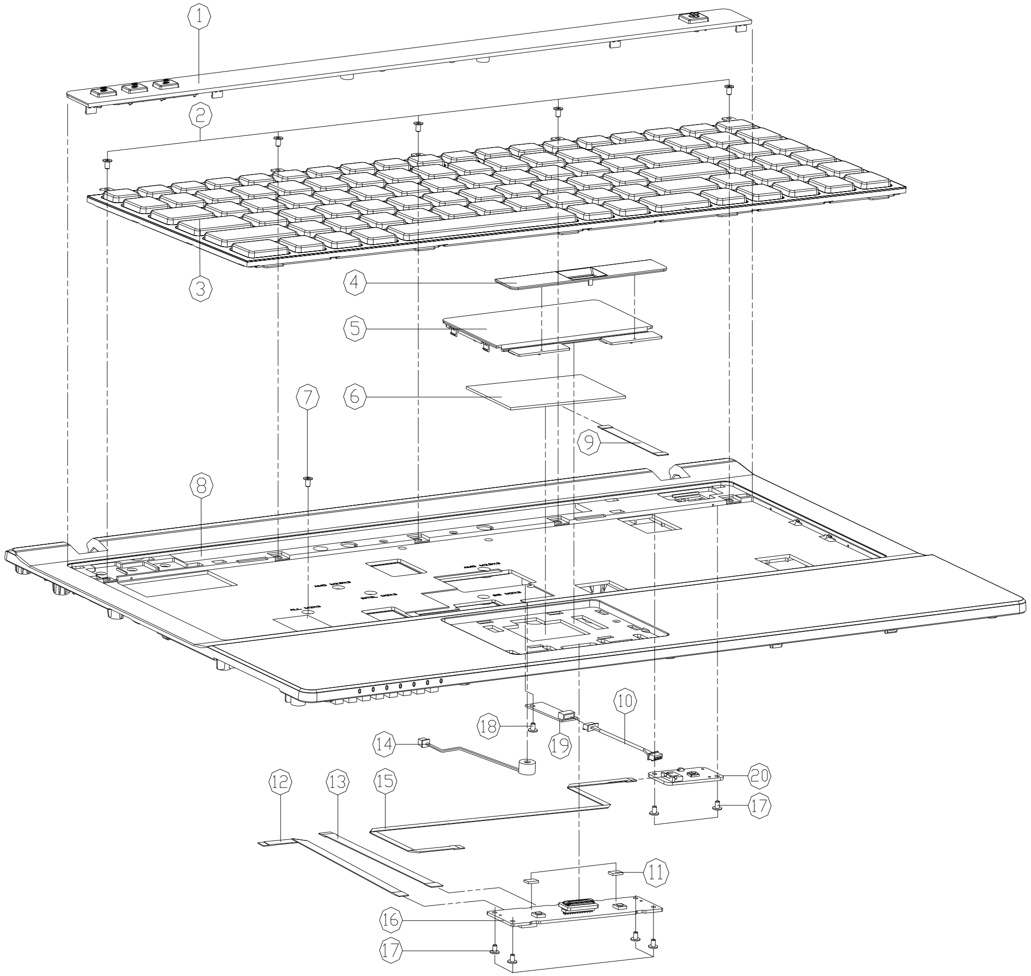
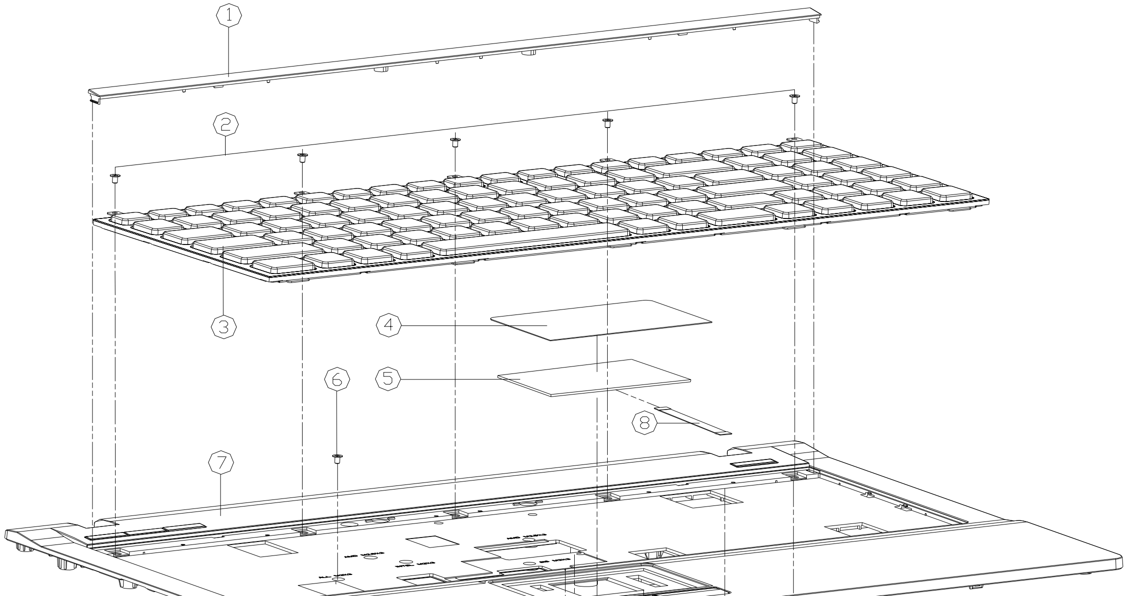


Figure A - 3
B5120 Top with Fingerprint

ITEM	PART NAME	PART NO	REMARK
1	TOP COVER MODULE W760S 無鉛	6-42-W76S2-801	
2	SCREW M2*2.5L KI BK/Z ICT NYø3.5 T=0.3 無鉛	6-35-B6120-2RB	
3	K/B US(白色)& FRAME (US) MODULE W760S/W760SU/W760S-C/W760SUN/W760TU/W760T/W760K/W760CU 無鉛	6-79-W760S00K-010	
4	CLICK BUTTON COVER FP MODULE W760S 無鉛	6-42-W76S2-700	
5	CLICK BUTTON PLATE PC+ABS (SABIC CM6140 701DE) W760S 無鉛	6-42-W76S2-012	
6	TOUCH PAD TM-00398-003 W840T 無鉛	6-49-W84T2-020	
7	SCREW M2*3L KI BZ ICT NY (DD=ø4.5,DT=0.4) 無鉛	6-35-B6120-3RD	
8	TOP CASE MODULE W760S 無鉛	6-39-W76S2-014	
8	TOP CASE MODULE W760S-C 無鉛	6-39-W76S2-014-C	
9	FFC CABLE FOR CLICK BOARD TO TOUCH PAD 54MM 12PIN FOR M760S 無鉛	6-43-M76S0-041	
10	WIRE CABLE 6PIN M/B TO 8PIN BLUETOOTH MODULE 50MM FOR M760S 無鉛	6-43-M76SB-011	(OPTION)
11	GASKET (5*3*1) FOR TOP CASE M760S 無鉛	6-47-00190-05K	
12	FFC CABLE FOR M/B TO FINGERPRINT 91MM 4PIN FOR W760S 無鉛	6-43-W76SF-010-1	
13	FFC CABLE 6PIN M/B TO CLICK BOARD FOR W760S 無鉛	6-43-W76S0-020-1	
14	MIC 6MM*3.5 2V~10V 2.2K W/CABLE (EM6035-FOL-U) M620NE 無鉛	6-23-EM62E-010-2	
15	FFC CABLE FOR M/B TO SWITCH BOARD 1.0PITCH 260MM 4PIN FOR W760S 無鉛	6-43-W76S0-010-1	
16	CLICK BOARD V1.0 (W/FP)+FINGERPRINTER BOARD V3.0 ASS'Y M770CU 無鉛	6-77-M77CA-N01	
17	*(非耐落)SCREW M2*3L K1 NI ICT GTY-PATCH 無鉛	6-35-B1120-3RE	
18	*(非耐落)SCREW M2*3L KI NI ICT GTY-PATCH (DD=ø4.0,DT=0.8) 無鉛	6-35-B1120-3RD	
19	BLUETOOTH V2.1 GUBTCR42M-NS 藍天/互億 8 PIN USB CSR BC04_A07 WITH MS BT SOFTWARE M730T 無鉛	6-88-M73T5-3901	(OPTION)
19	BLUETOOTH V2.1 BTC04R281B 凱碩 8 PIN USB CSR BC04 A07 (4839) WITH MS BT 無鉛	6-88-M77C5-5300	(OPTION)
20	POWER SWITCH BOARD V3.0 M740S 無鉛	6-77-M74SS-D03	

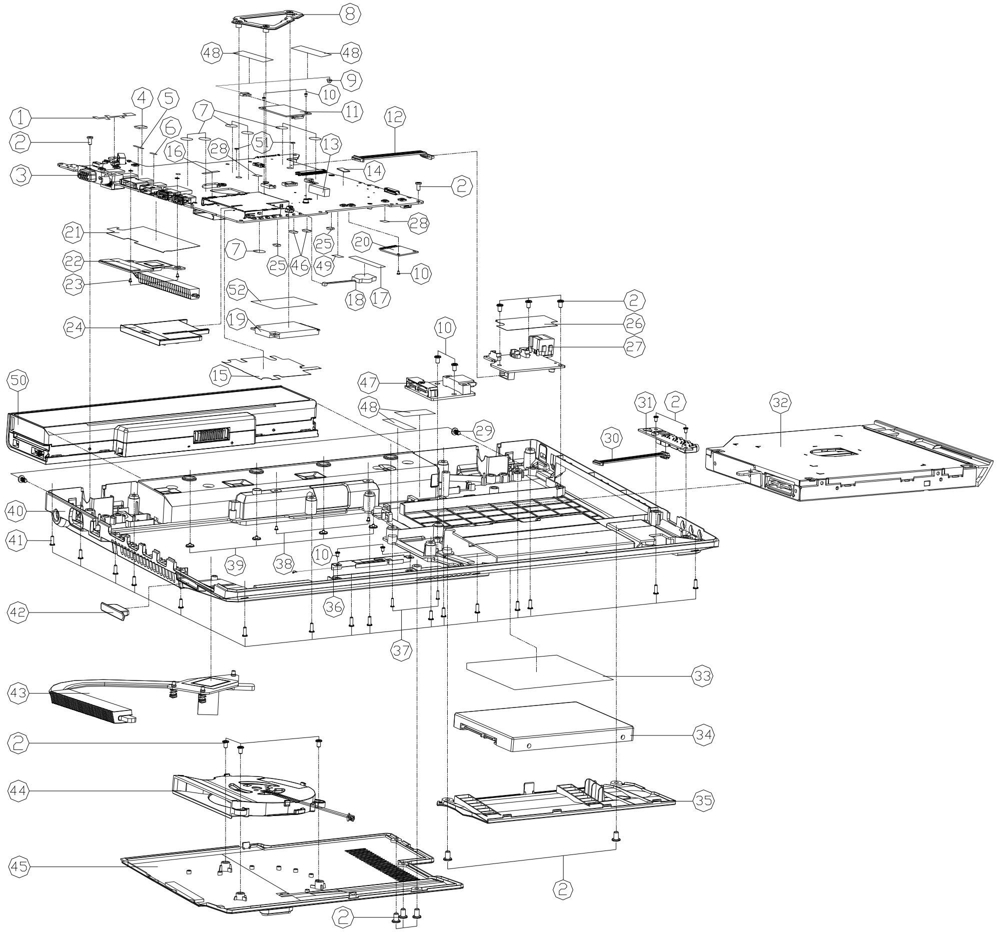
B5125 TOP WITH FINGERPRINT

Figure A - 4
B5125 TOP WITH FINGERPRINT



ITEM	PART NAME	PART NO	REMARK
1	TOP COVER PC+ABS (SABIC CM6140 701DE)W765S 無鉛	6-42-W7652-080	
2	SCREW M2*2.5L KI BK/Z ICT NYø3.5 T=0.3 無鉛	6-35-B6120-2RB	
3	K/B USA (黑色)& FRAME (US) MODULE W765S 無鉛	6-79-W765S00K-010	
4	MYLAR FOR TOUCH PAD HF200 W765S 無鉛	6-40-W7652-021	
5	TOUCH PAD TM-00398-003 W840T 無鉛	6-49-W84T2-020	
6	SCREW M2*3L KI BZ ICT NY (DD=ø4.5,DT=0.4) 無鉛	6-35-B6120-3RD	
7	TOP CASE MODULE(WITH FINGER)W765S(CLICK 修模) 無鉛	6-39-W7652-014	
8	FFC CABLE FOR CLICK BOARD TO TOUCH PAD 54MM 12PIN FOR M760S 無鉛	6-43-M76S0-041	
9	CLICK BOARD V1.0 (W/FP)+FINGERPRINTER BOARD V3.0 ASS'Y M770CU 無鉛	6-77-M77CA-N01	
10	AL FOIL MYLAR FOR POWER W765S 無鉛	6-40-W7652-050	
11	FFC CABLE FOR M/B TO FINGERPRINT 91MM 4PIN FOR W760S 無鉛	6-43-W76SF-010-1	
12	MIC 6MM*3.5 2V~10V 2.2K W/CABLE (EM6035-FOL-U) M620NE 無鉛	6-23-EM62E-010-2	
13	FFC CABLE FOR M/B TO SWITCH BOARD 1.0PITCH 260MM 4PIN FOR W760S 無鉛	6-43-W76S0-010-1	
14	BLUETOOTH V2.1 GUBTCR42M-NS-藍天 / 互億 8 PIN USB CSR BC04_A07 WITH MS BT SOFTWARE M730I 無鉛	6-88-M73T5-3901	(OPTION)
14	BLUETOOTH V2.1 BTC04R2818 凱碩 8 PIN USB CSR BC04 A07 (4839) WITH MS BT 無鉛	6-88-M77C5-5300	(OPTION)
15	*(非耐落)SCREW M2*3L KI NI ICT GTY-PATCH (DD=ø4.0,DT=0.8) 無鉛	6-35-B1120-3RD	
16	WIRE CABLE 6PIN M/B TO 8PIN BLUETOOTH MODULE 50MM FOR M760S 無鉛	6-43-M76SB-011	(OPTION)
17	POWER SWITCH BOARD V3.0 M740S 無鉛	6-77-M74SS-D03	
18	*(非耐落)SCREW M2*3L K1 NI ICT GTY-PATCH 無鉛	6-35-B1120-3RE	
19	GASKET (5*3*1) FOR TOP CASE M760S 無鉛	6-47-00190-05K	
20	FFC CABLE 6PIN M/B TO CLICK BOARD FOR W760S 無鉛	6-43-W76S0-020-1	

BOTTOM

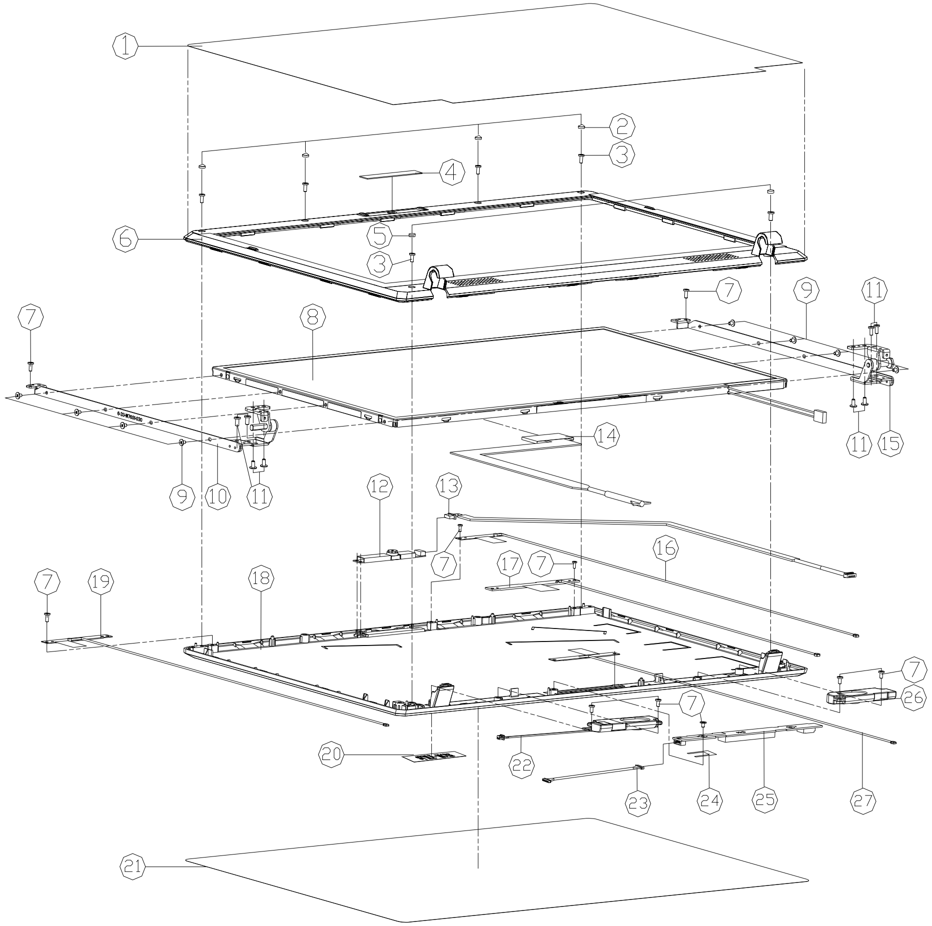


ITEM	PART NAME	PART NO	REMARK
1	HOTKEY MYLAR FOR MB (FR83+TERAOKA 750F) M740T	6-40-M74TS-021	
2	SCREW M2.5*5L KI BK/Z ICT NY-	6-35-B6125-5RA	
3	MAIN BOARD V3.0 (W/3G) B5120	6-77-B5120-D03	
3	MAIN BOARD V3.0 (W/O 3G) B5120	6-77-B5120-D03-1	
4	MB TOP RUBBER SILICONE M740T	6-47-M74TS-030	
5	E-STAT導電布 (15*5*0.35T) FOR M/B M740T	6-47-M74TS-010	
6	HDMI 導電布 (10*W5*0.35T) FOR M/B M740T	6-47-M74TS-020	
7	MYLAR D10 FR83 M760S	6-40-M76S0-010	
8	CPU SUPPORT BRACKET SECC M770CU	6-33-M77CS-010	
9	WIRE CABLE 2PIN MULTI BOARD TO MDC MODULE	6-43-W76CU-010	
10	*(非耐落) SCREW M2*3L KI NI ICT GTY-PATCH (DD=ø4.0,DT=0.8)	6-35-B1120-3RD	
11	MODEM AZALIA+AC97 D40 AM5 (1456VQL-T6(INT-	6-88-W76H1-8110	(OPTION)
11	MODEM AZALIA+AC97 ML3054(2.0) 凱碩 MDC 12 PIN MOTOROLA (LOW POWER) L390T	6-88-L39T1-5301	(OPTION)
11	MODEM AZALIA+AC97 1456VQL-M(INT-ROHS) 亞旭 MDC 12 PIN MOTOROLA (LOW POWER) M760S	6-88-M76S1-8111	(OPTION)
11	MODEM AZALIA+AC97 D40 AM5 凱碩 MDC 12 PIN AGERE (LOW POWER) W760S	6-88-W76S1-5300	(OPTION)
12	WIRE CABLE FOR M/B TO MULTI BOARD 150MM 16P M770SU	6-43-M7700-020	
13	TOUCH PAD SPONGE (20*5*6) CR M740S(富士弘)	6-47-0019A-20A	
14	MIC MYLAR(FR83+TERAOKA750F) M740S	6-40-M74SS-031	
15	NEW CARD MYLAR FR83 日東 5000N M740T	6-40-M74T3-011	
16	導電布(4*40) FOR NEW CARD BOX M760T	6-47-M76TS-010	
17	TAPE MYLAR (A),MYLAR M550J	6-40-M55J2-010	
18	BAT. 20MM 3V 210MAH W/CABLE 56MM CR2032C1- BAT. 20MM 3V 200MAH W/CABLE 56MM CR2032C1-LF-MITSUBISHI	6-23-22015-P2C	
19	WCDMA HSPA EM775 HUAWEI HALF MIN-CARD(半卡)	6-88-S110W-8810	(OPTION)
20	WLAN 802.11A+G+N INTEL PUMA PEAK (WIFI LIN	6-88-M77C2-4210	(OPTION)
20	WLAN 802.11BGN RTL8191SE展達 XW714E HALF MINI-CARD	6-88-W76C2-8702	(OPTION)
20	WLAN 802.11BGN RTL8191SE微星 MS-6897 HALF MINI-CARD	6-88-C4802-4702	(OPTION)
20	WLAN 802.11BGN RTL8191SE 海華 AW-NE104H HALF MINI-CARD	6-88-W76C2-7001	(OPTION)
21	HEAT SINK MYLAR FR83日東5000N M740S	6-40-M74SN-013	
22	VGA THERMAL MODULE B5120	6-31-B512N-101	
23	SCREW M2*3L K1 NI ICT NY	6-35-B1120-3RA	
24	DUMMY NEW CARD PC+ABS TN120R	6-42-T12R3-011	
25	BOTTOM CASE SUPPORT RUBBER (5*5*2.7T) SILICONE W760CU	6-47-W76C3-010	
26	MDC MYLAR FR83 日東 5000N M740S	6-40-M74SU-011	
27	MULTI I/O BOARD V3.0 M770CU	6-77-M77C1-D03	
28	PROTECT MB MYLAR FR83 M740S	6-40-M74SS-020	
29	SCREW M2*4L KI BZ ICT NY-	6-35-B6120-4RA	
30	WIRE CABLE 13PIN M/B TO AUDIO BOARD 180MM FOR M760S	6-43-M76S0-052	
31	PHONE JACK & USB BOARD V3.0A M77CU	6-77-M77CA-D03A	
32	SATA DVD SUPER MULTI ASS'Y (OPTION) M760C	6-79-W760C00Q-020	
32	SATA DVD SUPER MULTI ASS'Y (OPTION) M760CUH	6-79-W760CUHQ-020	
33	PRODUCT LABEL FOR B5120	6-45-B5120003-010	
33	PRODUCT LABEL FOR B5125	6-45-B5125003-010	
34	W/O HDD ASS'Y W760S	6-79-W760S00J-010	
35	HDD COVER MODULE(黑色) W760S	6-42-W76SJ-102	
36	ANTENNA WIMAX 2.4G/3.7G/5G PIFA WM3 340MM	6-23-7W76C-031	(OPTION)
37	SCREW M2*8L K1 BK/Z ICT NY	6-35-B6120-8R0	
38	SCREW M2*3L KI BZ ICT NY (DD=ø4.5,DT=0.4)	6-35-B6120-3RD	
39	SCREW M2*2L KI BK/Z ICT NY(ø8,T=0.6)	6-35-B6120-2RE	
40	BOTTOM CASE MODULE (黑色)W760S (設變加肉及干涉處減膠)	6-39-W76S3-014	
41	SCREW M2.5*8L KI BK/Z NY ICT	6-35-B6125-8R0	
42	RUBBER(CARD READER)(SILICON,H-60,60 度,黑色) M760S	6-47-M76S8-010	
43	CPU THERMAL MODULE B5120	6-31-B512N-201	
44	FAN MODULE M740S	6-31-M74SS-102	
45	CPU COVER MODULE W760CU(黑色)	6-42-W76CS-100	
46	RUBBER (5.5*4*1.5t) SILICON 70 度, M670SU黑色	6-47-M67U1-040	
47	ODD BRIDGE BOARD V1.0 W760S	6-77-W760N-D01	
48	TAPE MYLAR (C),MYLAR M550J	6-40-M55J2-030	
49	MB MYLAR PET (11*8*0.1T) W760TUN	6-40-W76TS-010	
50	BAT.P S LI 10.8V/4.4AH/47.52WH 3S2P GLW/B	6-87-W76SS-4R4	(OPTION)
50	BAT.P S LI 10.8V/7.2AH/77.76WH 3S3P SMP/PANASONIC	6-87-M74SS-4CAA	(OPTION)
50	BAT.P S LI 10.8V/4.4AH/47.52WH PSE 3S2P SMP/BAK-2200 980C/T4390F M660SRU	6-87-M660S-4P4	(OPTION)
51	TOP CASE SUPPORT RUBBER (3*3*1.2T) SILICON	6-47-W76CS-010	
52	MYLAR 40*30*0.1T (FR83 + 3M-467) M735T	6-40-M7351-020	

Figure A - 5
BOTTOM

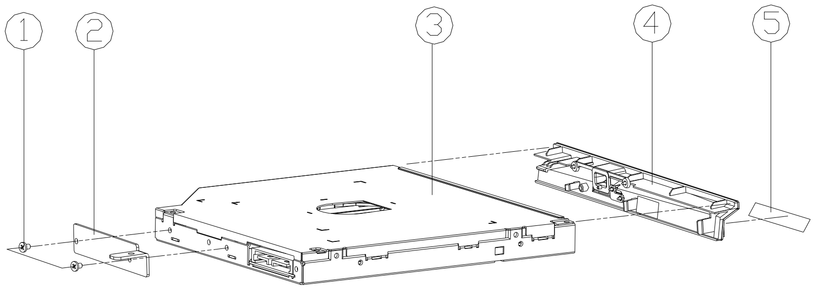
LCD

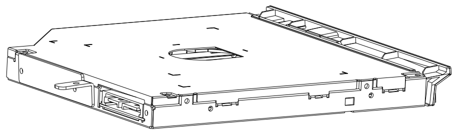
Figure A - 6
LCD



ITEM	PART NAME	PART NO	REMARK
1	LCD PROTECT MYLAR(PET+3M8915) W760S(富士弘)無鉛	6-40-W76S1-041	
2	LCD FRONT COVER RUBBER D=4.5MM T=2.5MM(黑色亮面)W760S 無鉛	6-47-W76S1-050	
3	SCREW M2*5L KI(T=0.8 D=4.0) BK/Z ICT NY 無鉛	6-35-B6120-5R0	
4	CCD LNES (PMMA) (W/CCD) W760S 無鉛	6-42-W76ST-011	W/ CCD
4	CCD LNES (PMMA) (W/CCD) (TRIGEM"2.0M PIXELS") W760TUN 無鉛	6-42-W76ST-011-T	FOR W765CUF W/ CCD
4	CCD LNES (PMMA) (W/O CCD) W760S 無鉛	6-42-W76ST-020	W/O CCD
5	LCD FRONT COVER RUBBER SILICON OD=4.5MM T=1.0MM W760S 無鉛	6-47-W76S1-030	
6	LCD FORNT COVER MODULE W760S 無鉛	6-39-W76S1-012	FOR W76XCU
6	LCD FRONT COVER MODULE (TG"TG") W760TUN (設變) 無鉛	6-39-W76S1-013-T	FOR W765CUF
7	SCREW M2*4L I NI ICT NY 頭徑3.5MM 頭厚0.8MM | 號穴 鍍白鎳 | 頭 無鉛	6-35-C1120-4RB	
8	LCD 15.6" HD+ AU B156RW01 V3 (LED) 5.7MM 無鉛	6-50-LA157-G02	FOR LED PANEL FOR B5120
8	LCD 15.6" HD INNOLUX BT156GW01 V.2 GLARE 無鉛	6-50-L8155-V03	FOR LED PANEL FOR B5120
8	LCD 15.6" FHD AU B156HW01 V0 (GLARE TYPE) 無鉛	6-50-LB257-G01	FOR LED PANEL FOR W760C/W765C
8	LCD 15.6" FHD AU B156HW01 V2 (GLARE TYPE) 無鉛	6-50-LB257-G00	FOR LED PANEL FOR W760CU
8	LCD 15.6" HD+ AU B156RW01 V0 GLARE TYPE (L 無鉛	6-50-LA157-G00	FOR LED PANEL FOR W760CU
8	LCD 15.6" HD AU B156XW02 V0 GLARE TYPE (5. 無鉛	6-50-L8155-G00	FOR LED PANEL FOR W760CU/CUF/B5120
8	LCD 15.6 HD CHIMEI N156B3-L02 GLARE TYPE 無鉛	6-50-L8162-D00	FOR CCFL PANEL FOR W765CU/B5120
9	*(非耐落)SCREW M2*3L K1 NI ICT GTY-PATCH 無鉛	6-35-B1120-3RE	
10	LCD HINGE-L SECC FOR LED PANEL W760SUN(新日興) 無鉛	6-33-W7601-030-1	FOR LED PANEL FOR W760CU/W765CUF
10	LCD HINGE-L SECC W760S (新日興) 無鉛	6-33-W76S1-031-1	FOR W765CU
11	SCREW M2.5*5L KI BK/Z ICT NY- 無鉛	6-35-B6125-5RA	
12	UVC CAMERA BISON FIX BN28U5VA8-000 2M OV26 無鉛	6-88-W76SC-4900	
13	WIRE CABLE 5PIN M/B TO CCD 300MM MODULE FOR M760S 無鉛	6-43-M76ST-022	
14	WIRE CABLE 36PIN M/B TO 40PIN LCD 310MM FOR LED PANEL W760CU(今皓) 無鉛	6-43-W76C1-010-1	FOR 6-50-LA157-G00 6-50-L8155-G00 6-50-LB257-G00
14	WIRE CABLE 30PIN M/B TO LCD 234MM FOR W760S 無鉛	6-43-W76S1-010	FOR 6-50-L8162-D00
15	LCD HINGE-R SECC FOR LED PANEL W760SUN(新日興) 無鉛	6-33-W7601-020-1	FOR LED PANEL FOR W760CU/W765CUF
15	LCD HINGE-R SECC W760S (新日興) 無鉛	6-33-W7601-021-1	FOR W765CU
16	ANTENNA BLUETOOTH 2.4G PCB BT 495MM 惠貿 W760S 無鉛	6-23-7W76S-021	(OPTION)
17	ANTENNA WCDMA PCB 3G 615MM 惠貿 W760K 無鉛	6-23-7W76K-010	(OPTION)
18	LCD BACK COVER MODULE W760S 無鉛	6-39-W76S1-022	FOR W760CU
18	LCD BACK COVER MODULE(咬花) W765S/SUN 無鉛	6-39-W7651-022	FOR W765CU
18	LCD BACK COVER MODULE NOFA ASS'Y FOR (TRIGEM-漸變底黑線) W76 無鉛	A6-39-W7621-021-T02	FOR W765CUF
19	ANTENNA WIMAX 2.4G/3.7G/5G PCB WM1 655MM 惠貿 W760CU 無鉛	6-23-7W76C-011	FOR W760CU (OPTION)
20	STYLE NOTE 中性LOGO 電鑄薄膜鍍亮鉻(字體連結)M741S 無鉛	6-45-M741S-020	FOR W76XCU
20	LOGO(TRIGEM"TG")電鑄薄膜鍍亮鉻 FOR B-CVR(新規格) W765CUF 無鉛	6-45-W76T1-020-T	FOR W765CUF
21	BACK COVER PROTECTION MYLAR 374*251*0.10 W760S(富士弘)無鉛	6-40-W76S1-052	FOR W76XCU
22	[illegible] 變更喇叭本體,將磁鐵外露 [illegible] 無鉛	6-23-5W76S-011	
23	WIRE CABLE FOR M/B TO INVERTER 158.5MM 6 PIN M740S 無鉛	6-43-M74SR-011	ONLY FOR CCFL PANEL
24	INVERTER MYLAR (FR83+NITTON 5011) M760S 無鉛	6-40-M76S1-010	ONLY FOR CCFL PANEL
25	INVERTER MODULE R0A MITAC DA-1A08-CV02NL (M660JEINT-D) M660SR 無鉛	6-76-M6R6R-010	ONLY FOR CCFL PANEL
25	INVERTER MODULE 1A SUMIDA TWS-400-9658(M660SRUINT-E) M660SRU 無鉛	6-76-M660R-011	ONLY FOR CCFL PANEL
26	SPK+ CABLE 76MM 1.5W 8Ω (P2016VMG04-1) R-SIDE M740S 無鉛	6-23-5M74S-030	
27	ANTENNA WIMAX 2.4G/3.7G/5G PCB WM2 385MM 惠貿 W760CU 無鉛	6-23-7W76C-021	

SATA DVD SUPER-MULTI





ITEM	PART NAME	PART NO	REMARK
1	*(非耐落)SCREW M2*3L KI NI ICT GTY-PATCH (DD=ø4.0,DT=0.8) 無鉛	6-35-B1120-3RD	
2	CD ROM BRACKET SECC(志精)M740S 無鉛	6-33-M74SZ-012-1	
3	SATA DVD SUPER MULTI 5 1/4" 24X / 8X 12.7M 無鉛	6-85-A0724-501	FOR HLDS
3	SATA DVD SUPER MULTI 5 1/4 [illegible] 內縮 [illegible] TSST 無鉛	6-85-A0724-T03	FOR TSST
3	SATA DVD SUPER MULTI 5 1/4" 8X 12.7MM GT30 無鉛	6-85-A078X-503	FOR HLDS
4	ODD BEZEL MODULE 黑色 W760S 無鉛	6-42-W76SZ-102	
5	ODD BEZEL LABEL(SUPER MULTI) W760S (太乙)無鉛	6-45-W76SZ-010-1	

Figure A - 7
SATA DVD SUPER-MULTI

Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the ***B5120/B5125*** notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

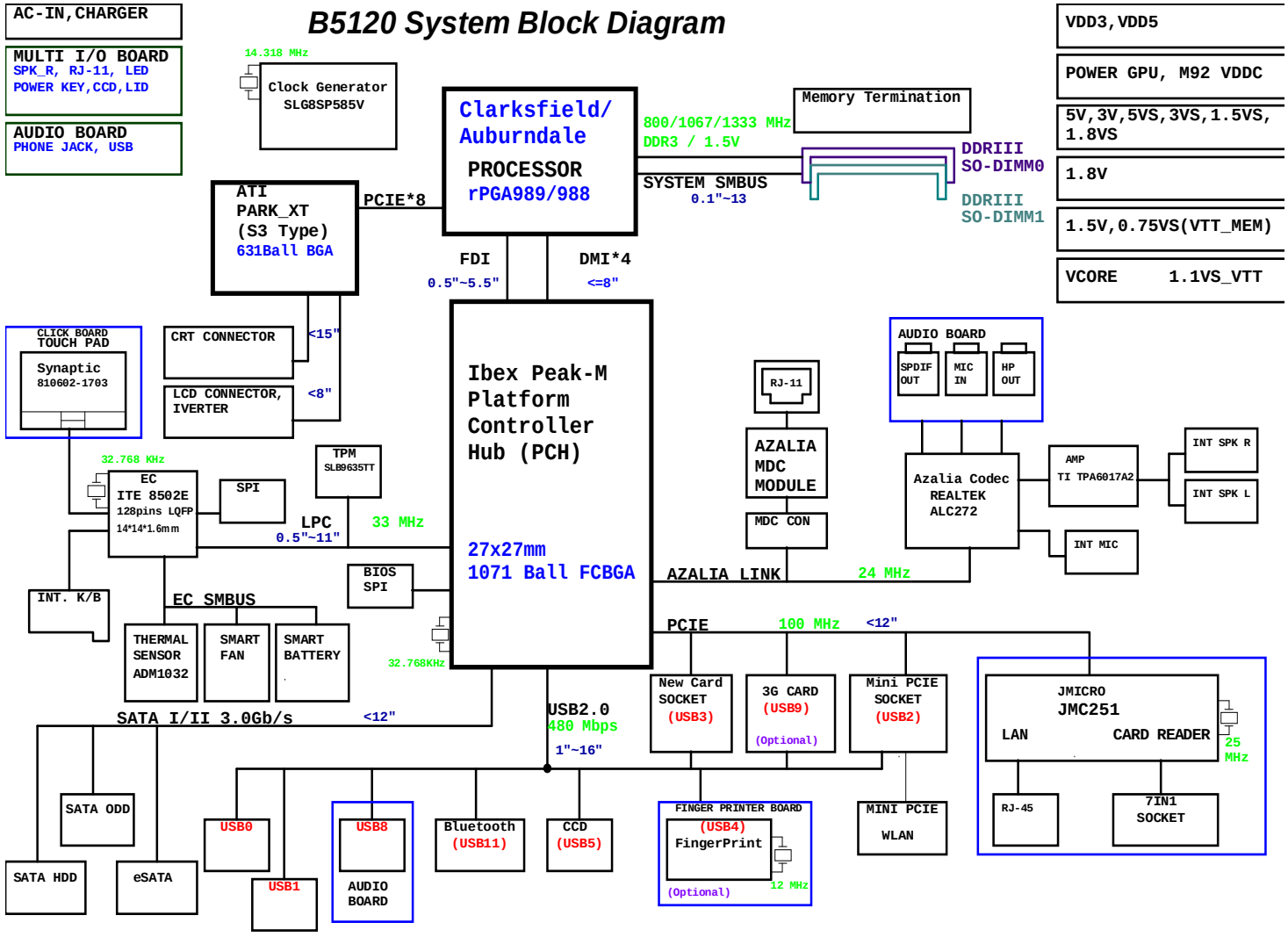
Table B - 1
SCHEMATIC DIAGRAMS

Version Note

The schematic diagrams in this chapter are based upon version 6-7P-B512A-002. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

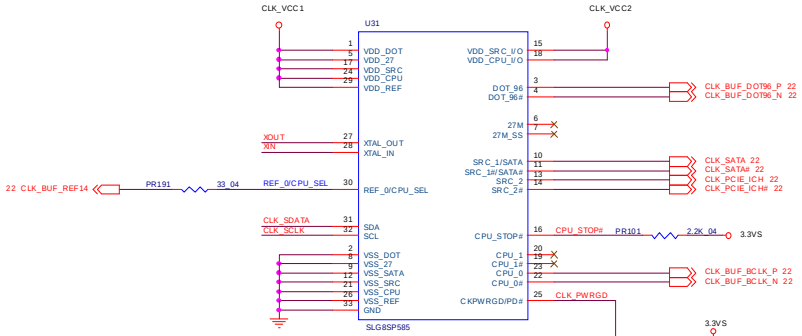
SYSTEM BLOCK DIAGRAM

Sheet 1 of 56
SYSTEM BLOCK DIAGRAM

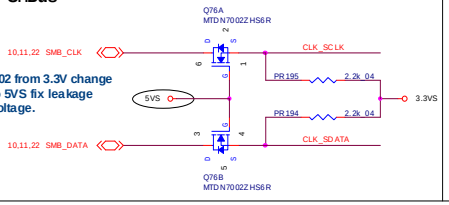


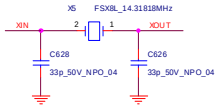
CLOCK GENERATOR

CLOCK GENERATOR

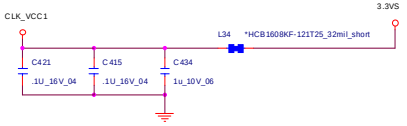


SMBus

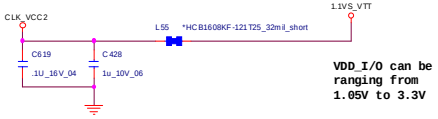




CLKGEN POWER



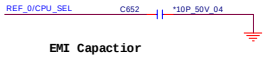
0.1uF near the every power pin



VDD_I/O can be ranging from 1.05V to 3.3V

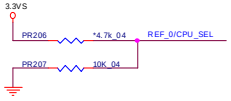
0.1uF near the every power pin

EMI

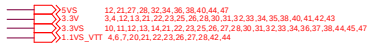


EMI Capactior

CPU_SEL_During CK_PEWGD Latch Pinl



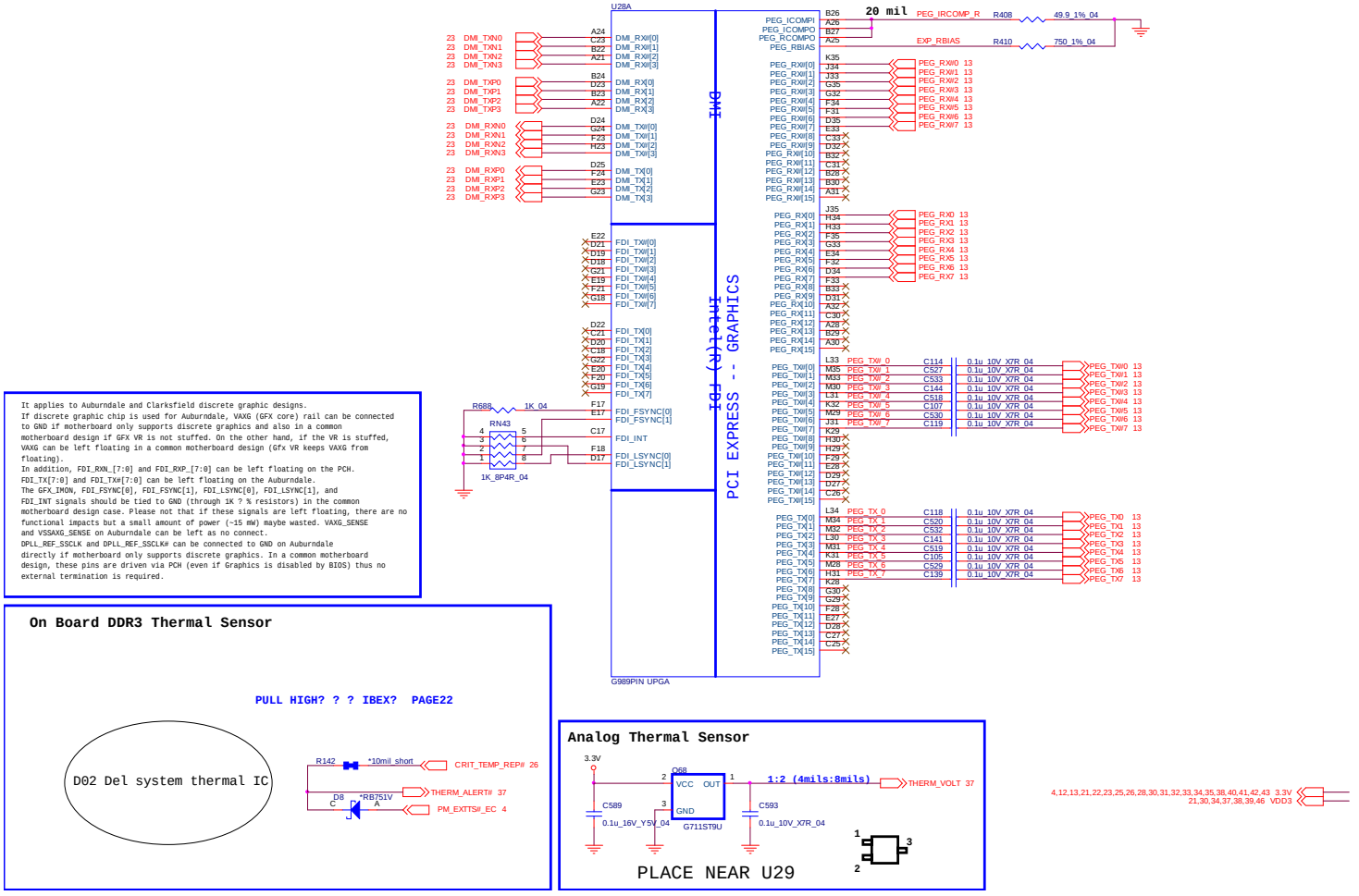
PIN_30	CPU_0	CPU_1
0(default)	133MHz	133MHz
1(0.7V-1.5V)	100MHz	100MHz



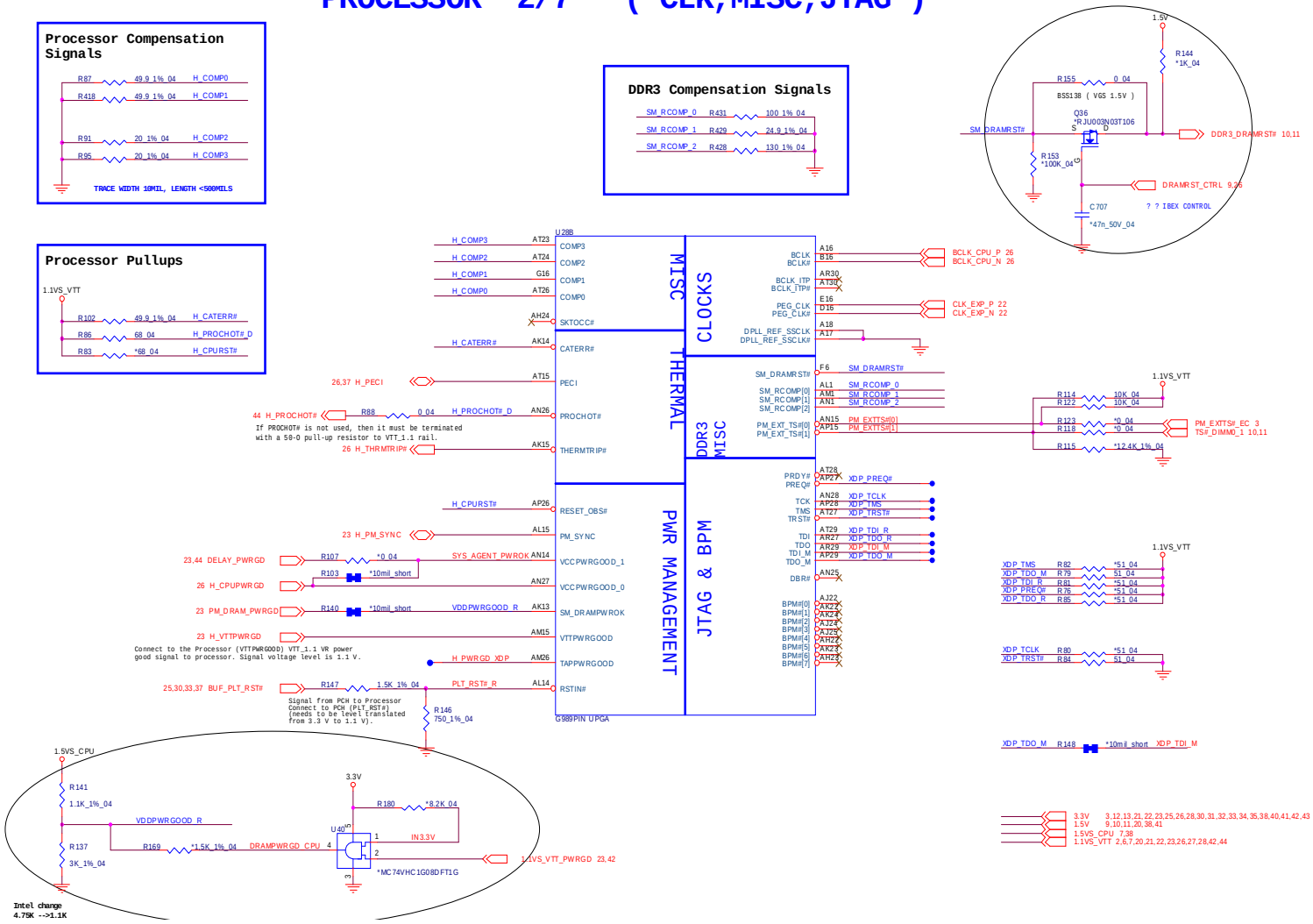
Sheet 2 of 56
CLOCK GENERATOR

CPU 1/7 (DMI, PEG, FDI)

Sheet 3 of 56
CPU 1/7
(DMI, PEG, FDI)



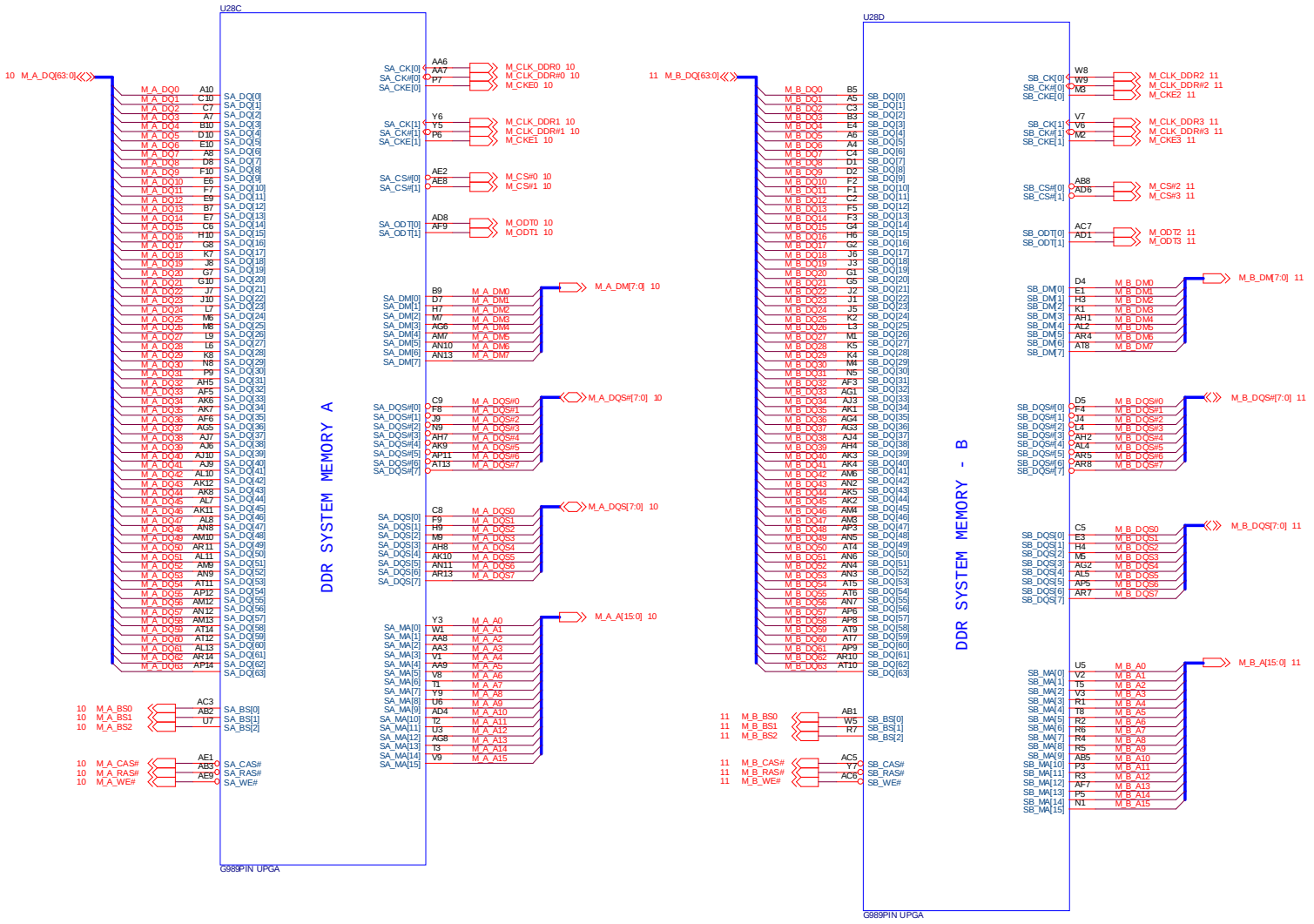
CPU 2/7 (CLK, MISC)



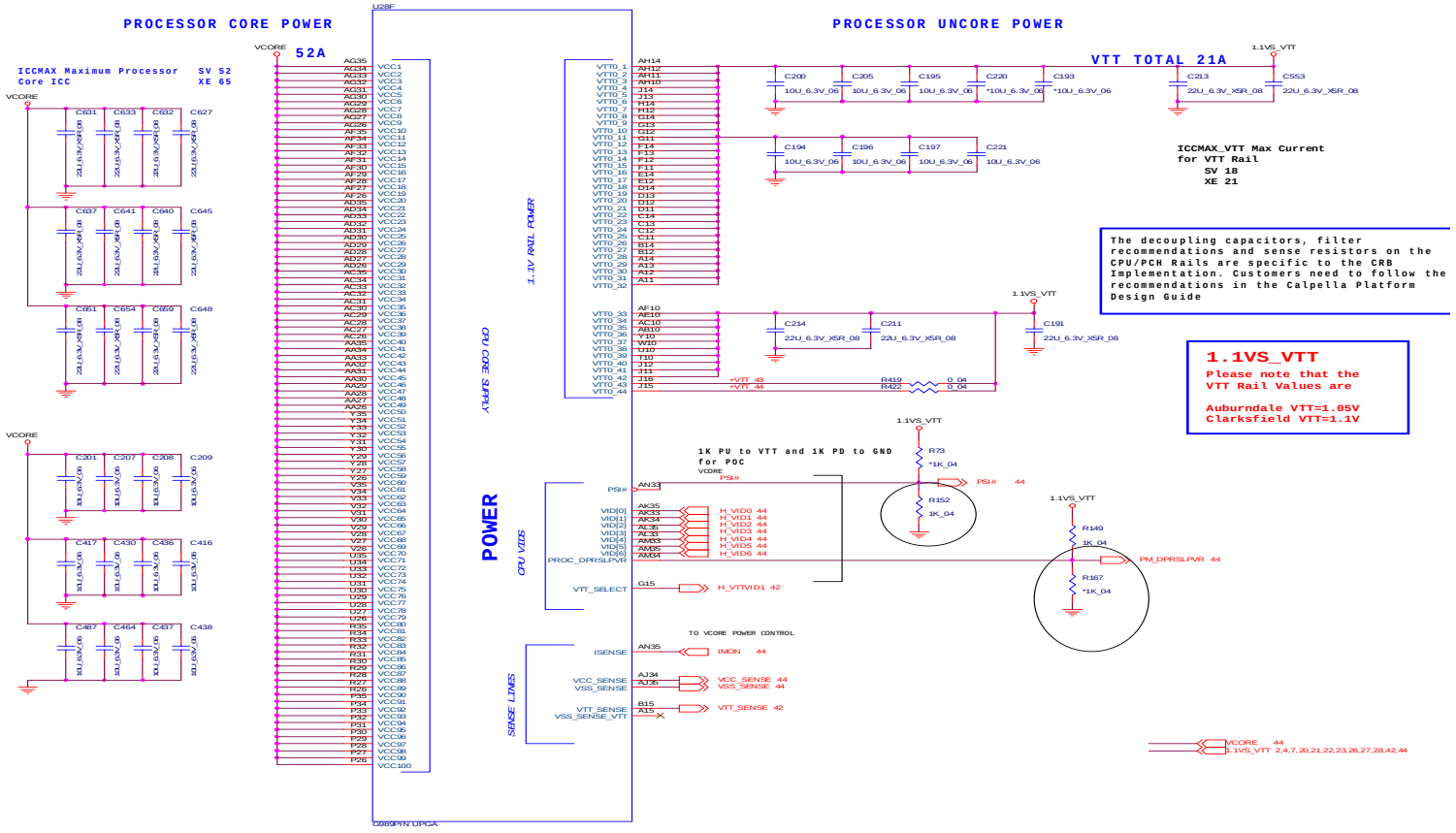
Sheet 4 of 56
CPU 2/7
(CLK, MISC)

CPU 3/7 (DDR3)

Sheet 5 of 56
CPU 3/7
(DDR3)



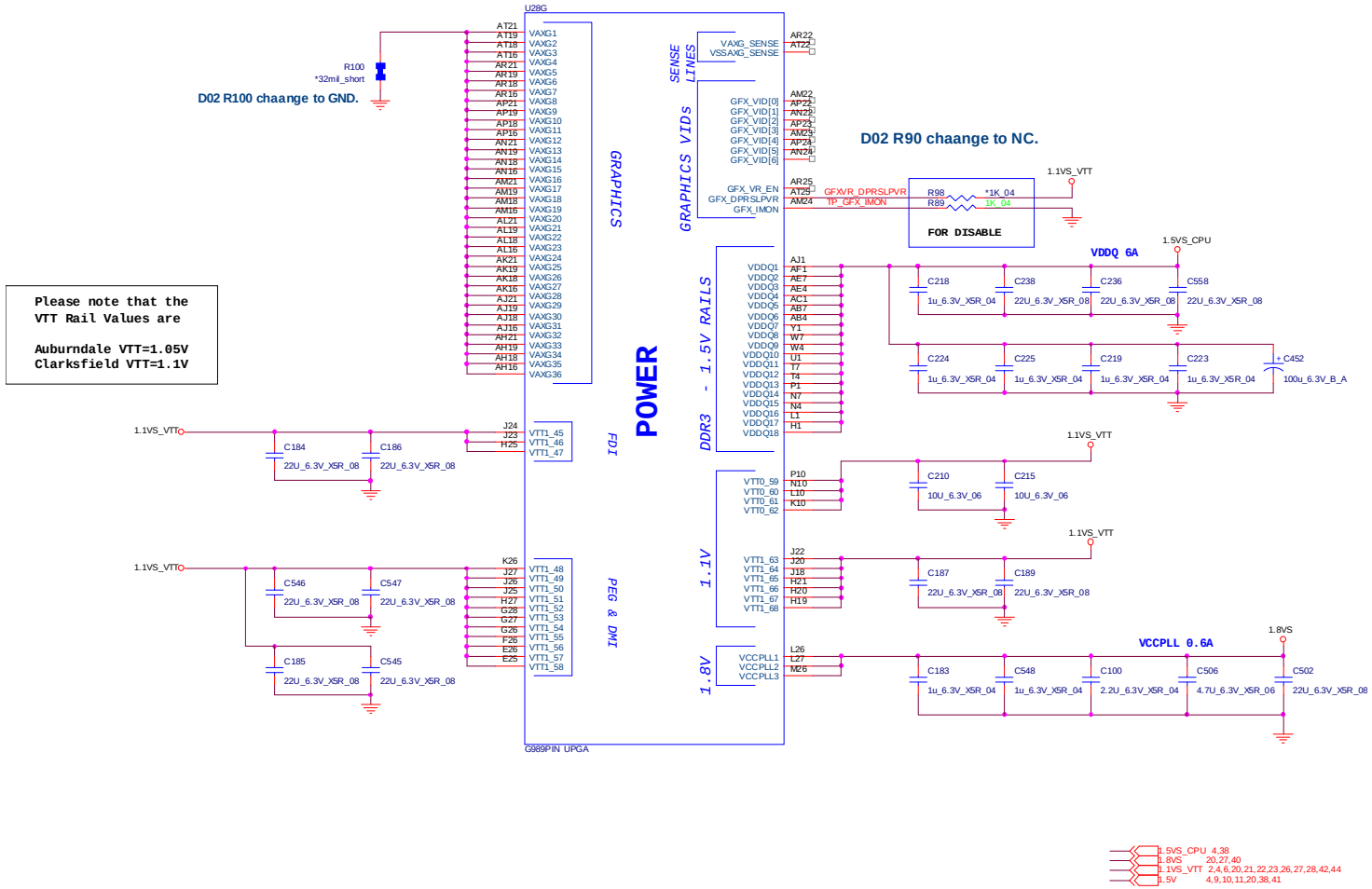
CPU 4/7 (POWER)



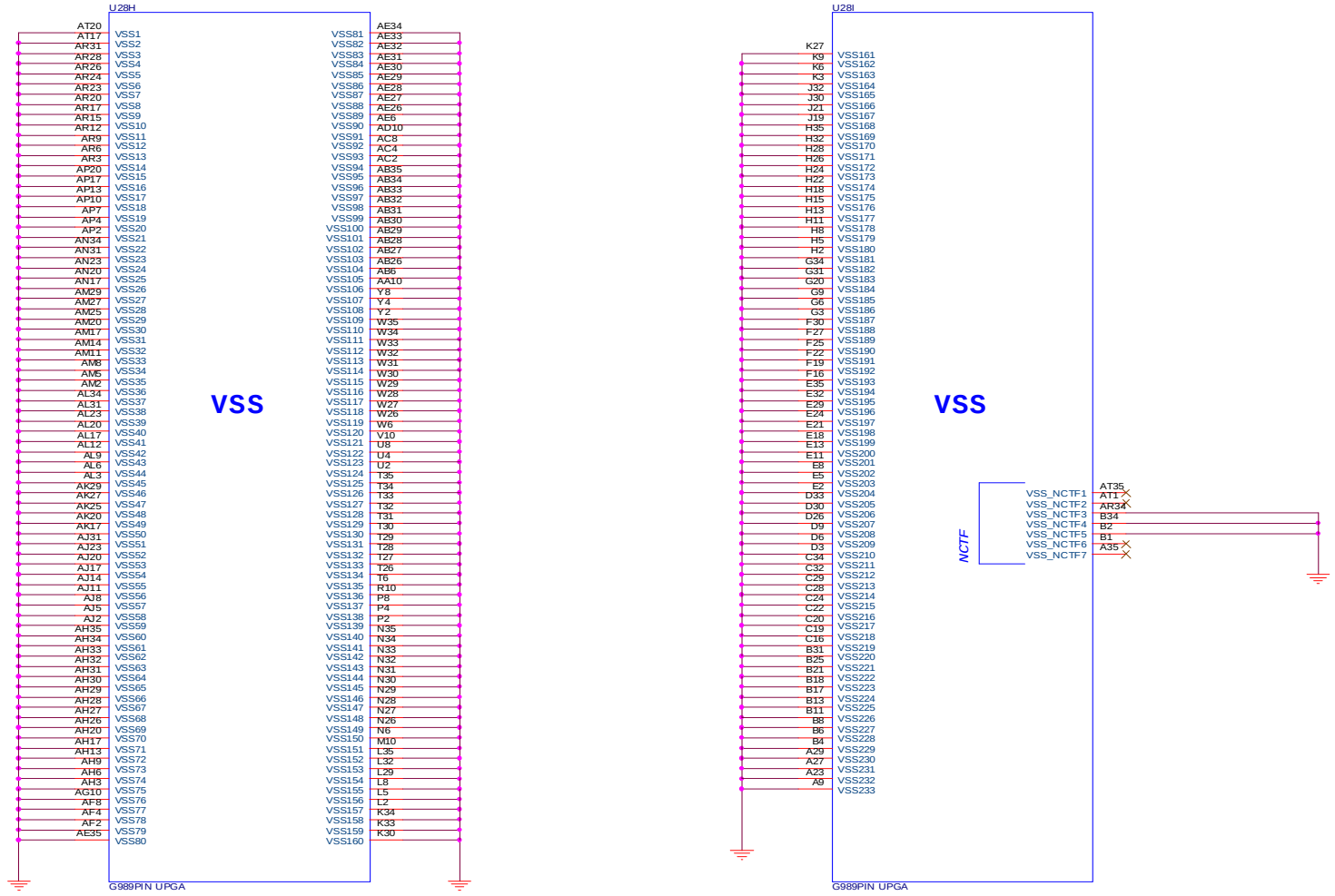
Sheet 6 of 56
CPU 4/7
(POWER)

CPU 5/7 (VGFX POWER)

Sheet 7 of 56
CPU 5/7
(VGFX POWER)



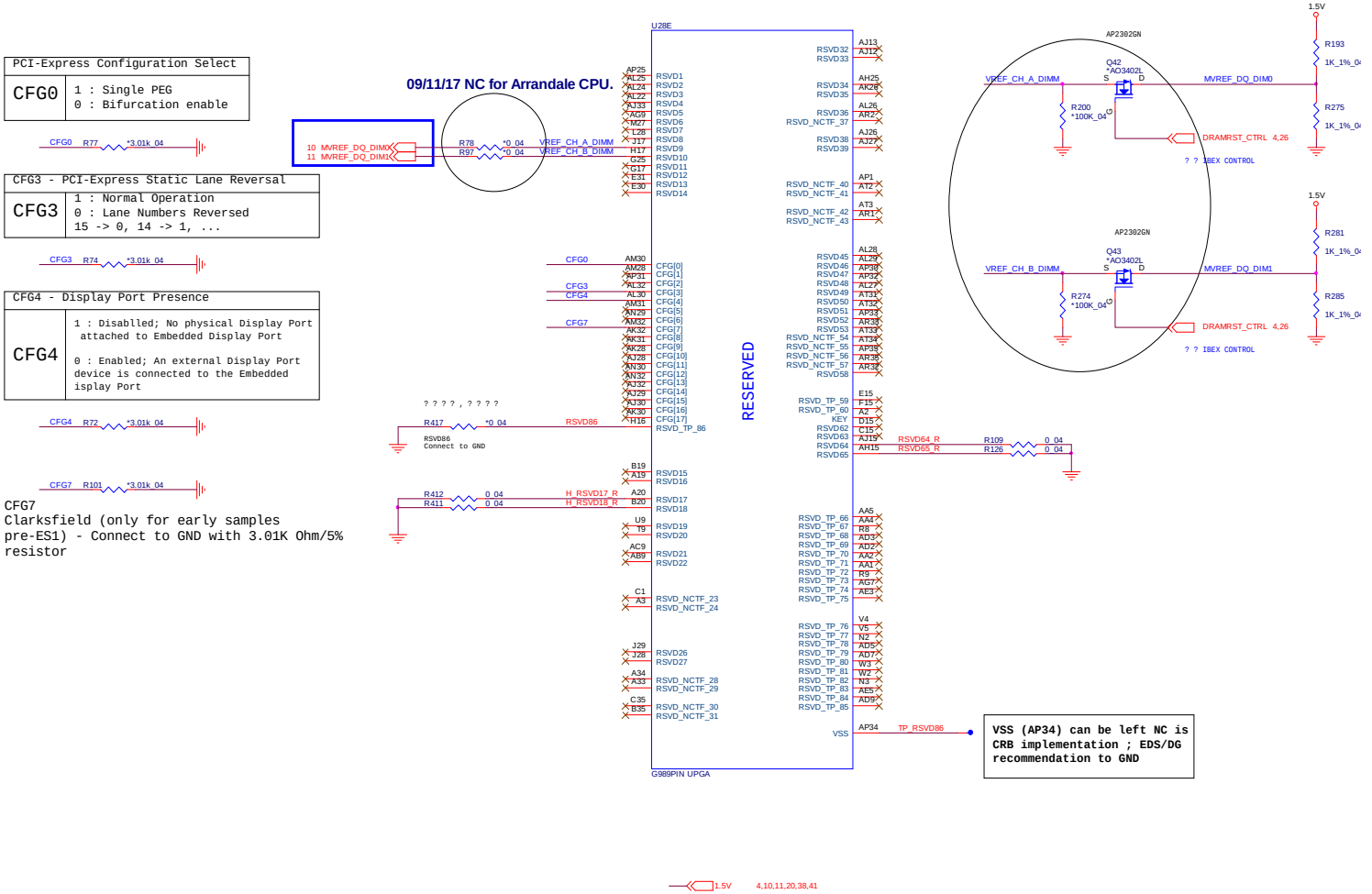
CPU 6/7 (GND)



Sheet 8 of 56
CPU 6/7 (GND)

CPU 7/7 (RESERVED)

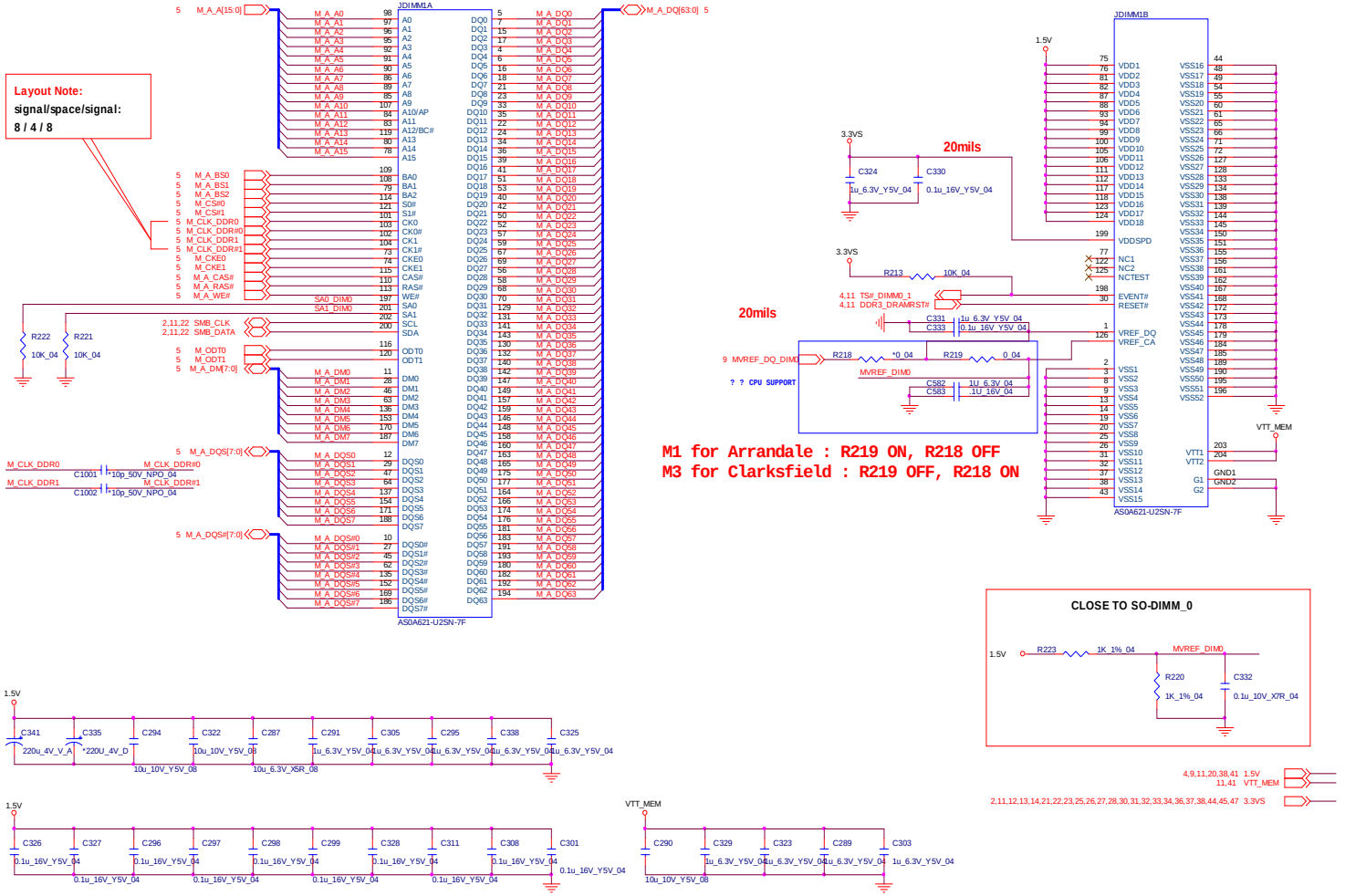
Sheet 9 of 56
CPU 7/7
(RESERVED)



DDR3 SO-DIMM_0

SO-DIMM A

CHANGE TO STANDARD



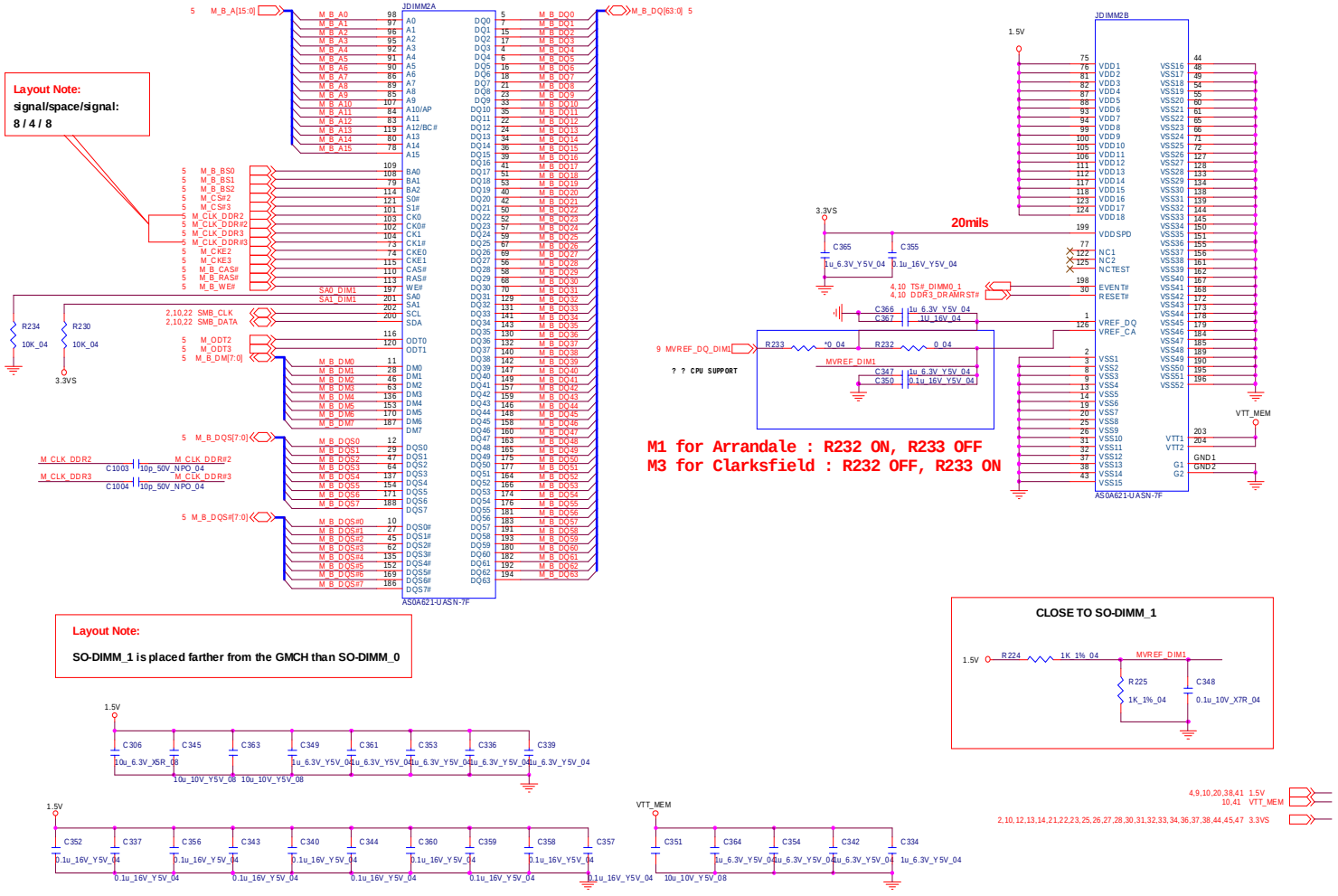
Sheet 10 of 56
DDR3 SO-DIMM_0

Sheet 11 of 56
DDR3 SO-DIMM_1

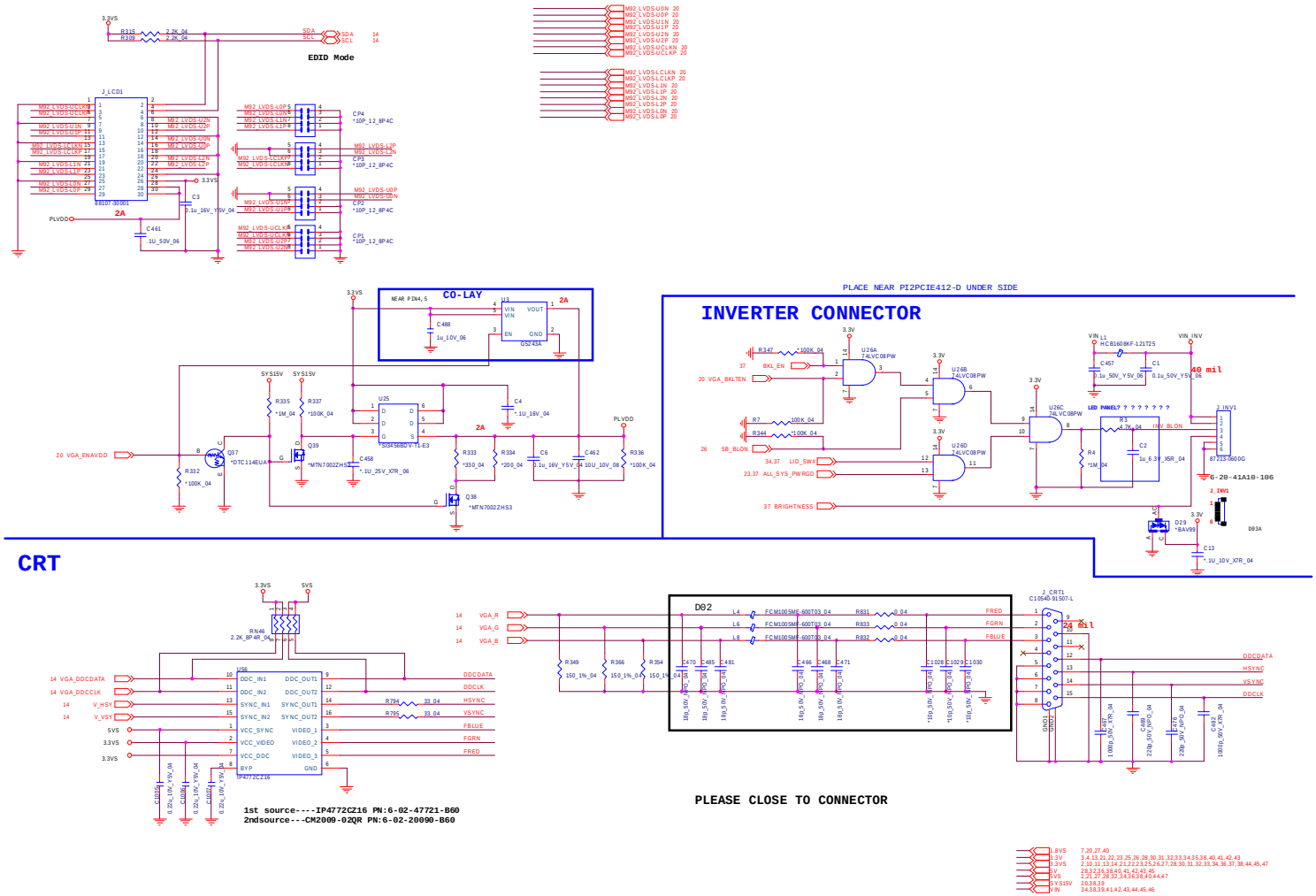
DDR3 SO-DIMM_1

SO-DIMM B

CHANGE TO STANDARD



PANEL, INVERTER, CRT

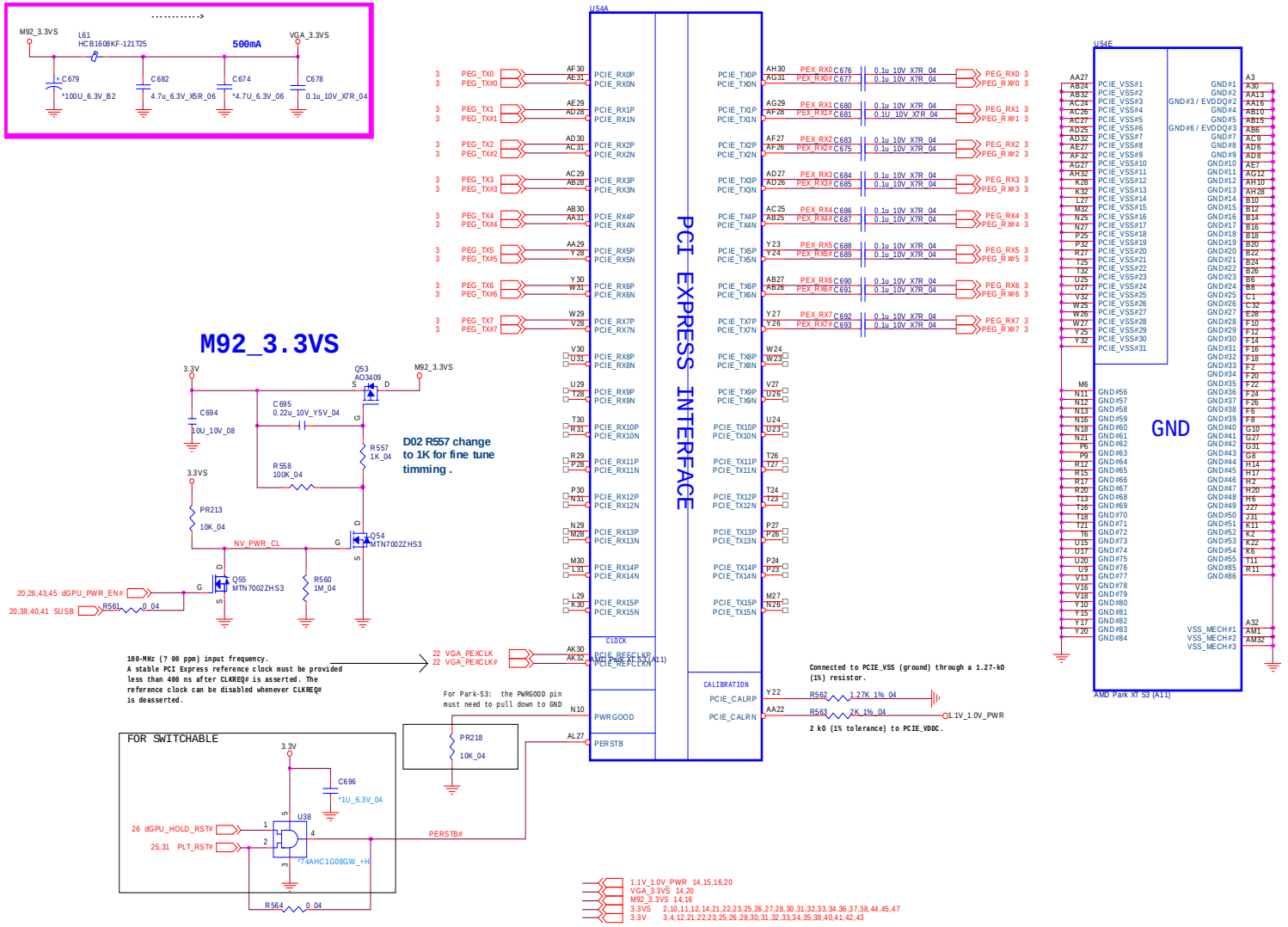


Sheet 12 of 56
PANEL, INVERTER, CRT

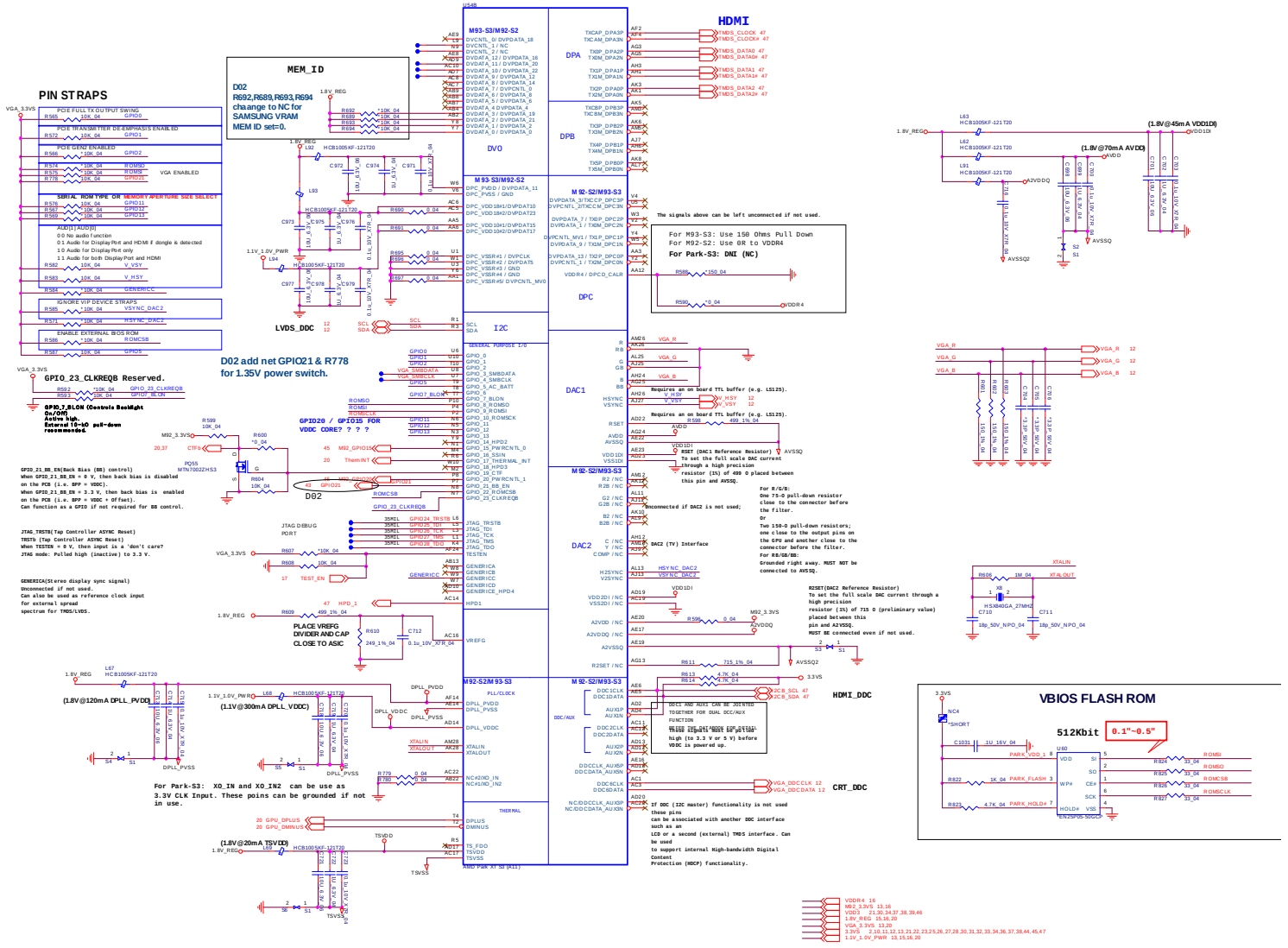
B.Schematic Diagrams

PARK S3 PCIE_INTERFACE

Sheet 13 of 56
PARK S3
PCIE_INTERFACE



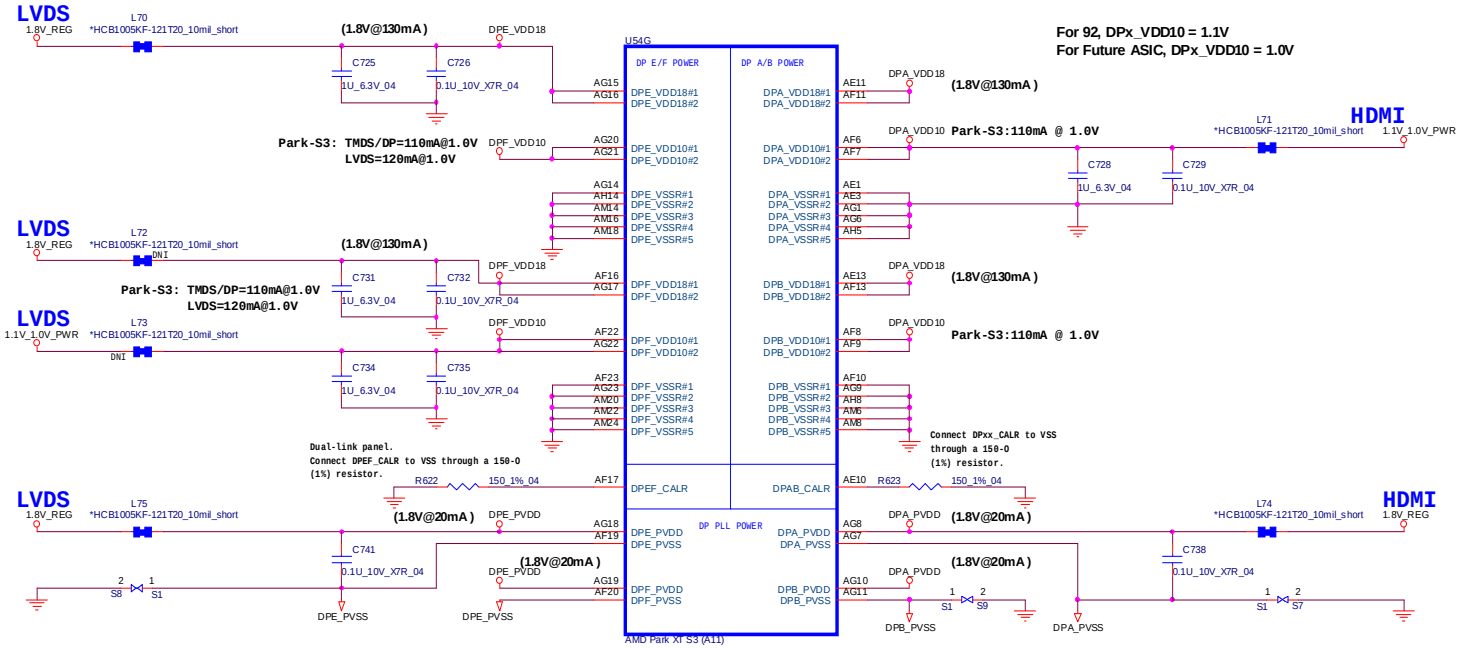
PARK S3 MAIN GENERIC

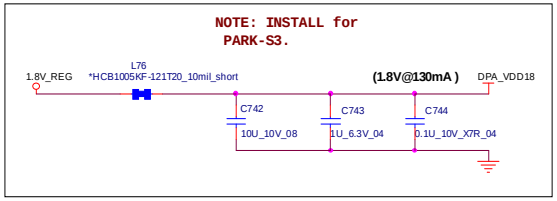


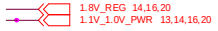
Sheet 14 of 56
PARK S3 MAIN
GENERIC

PARK S3 DP POWER

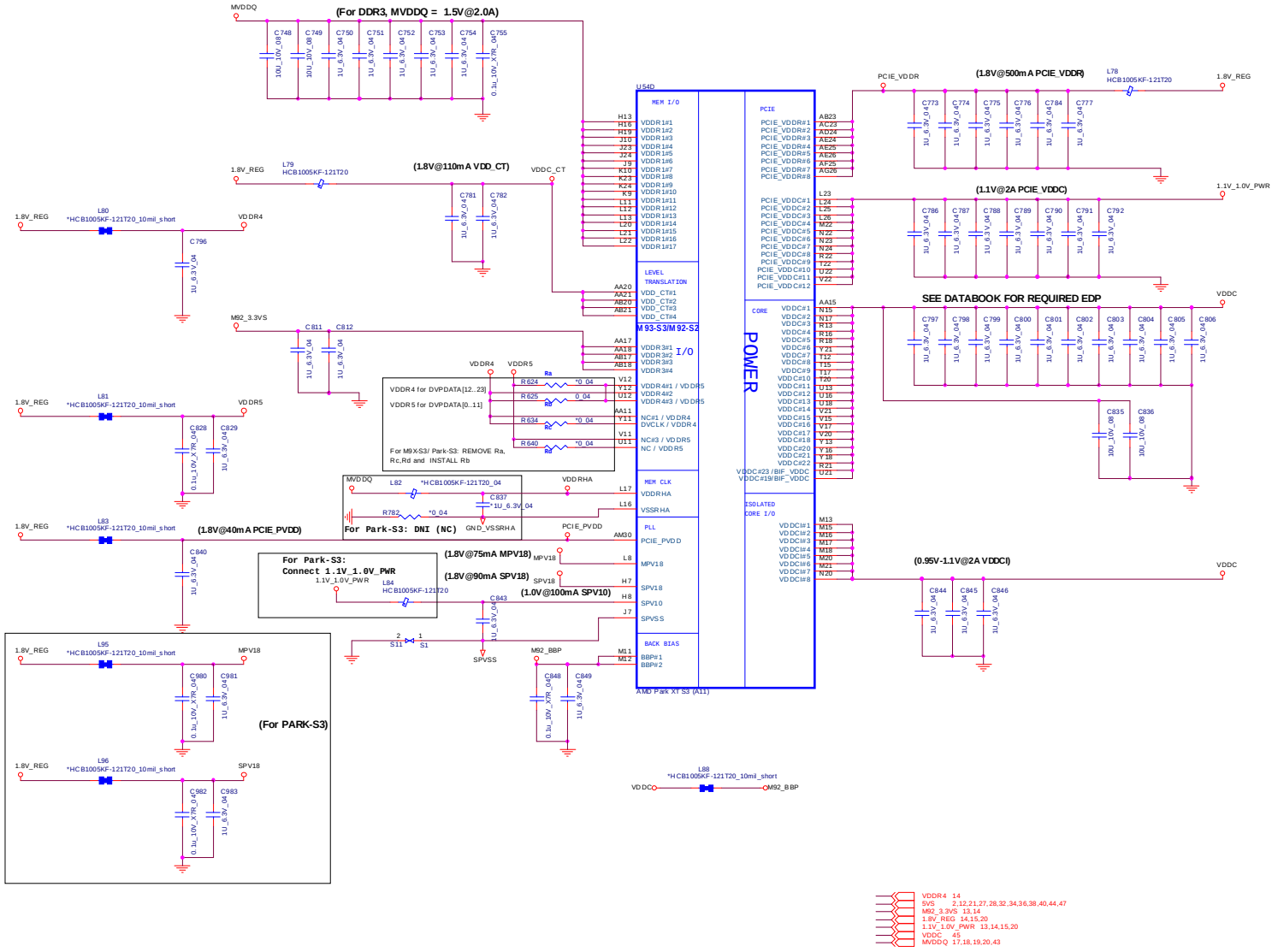
Sheet 15 of 56
PARK S3 DP POWER







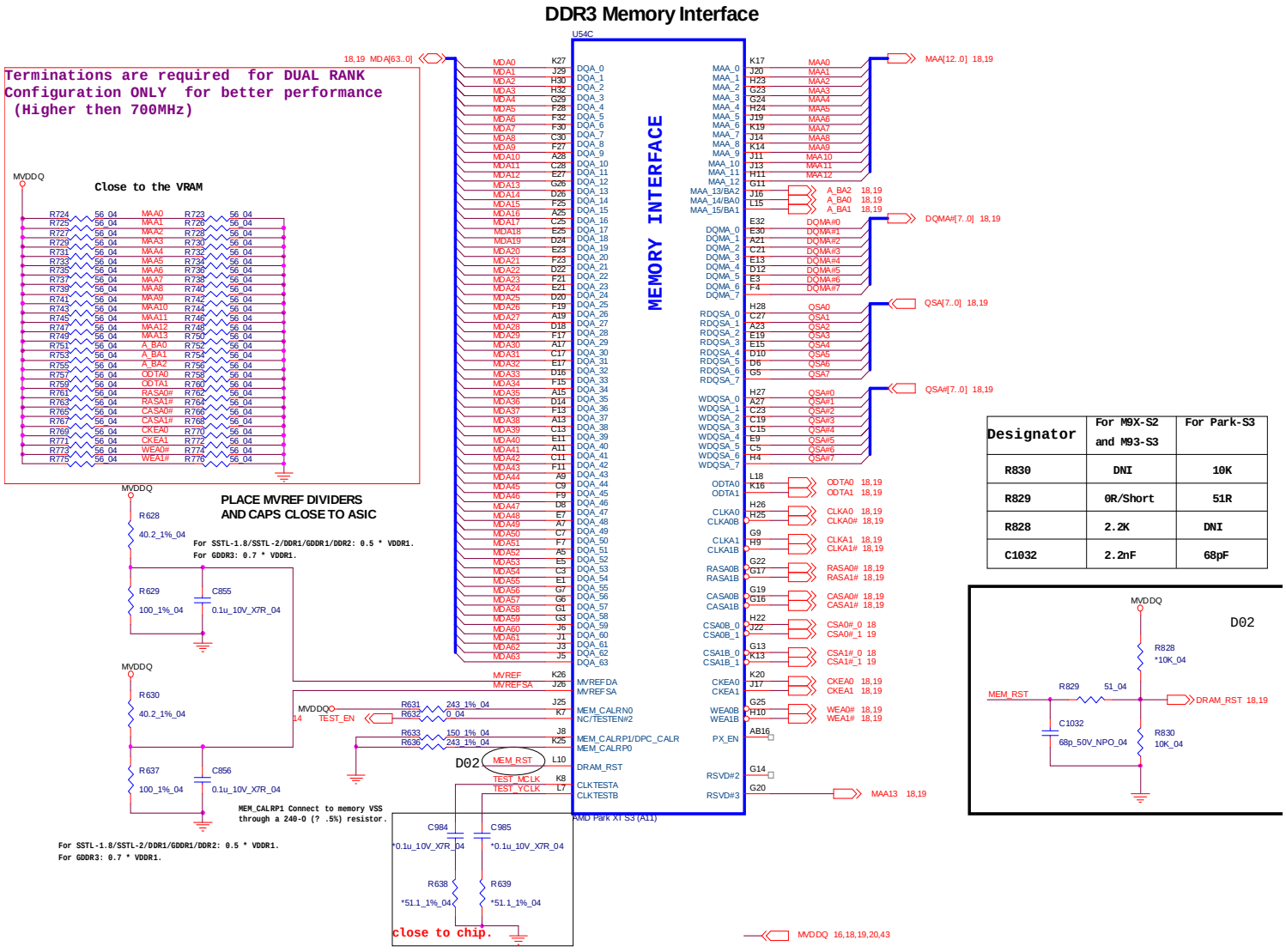
PARK S3 POWER



Sheet 16 of 56
PARK S3 POWER

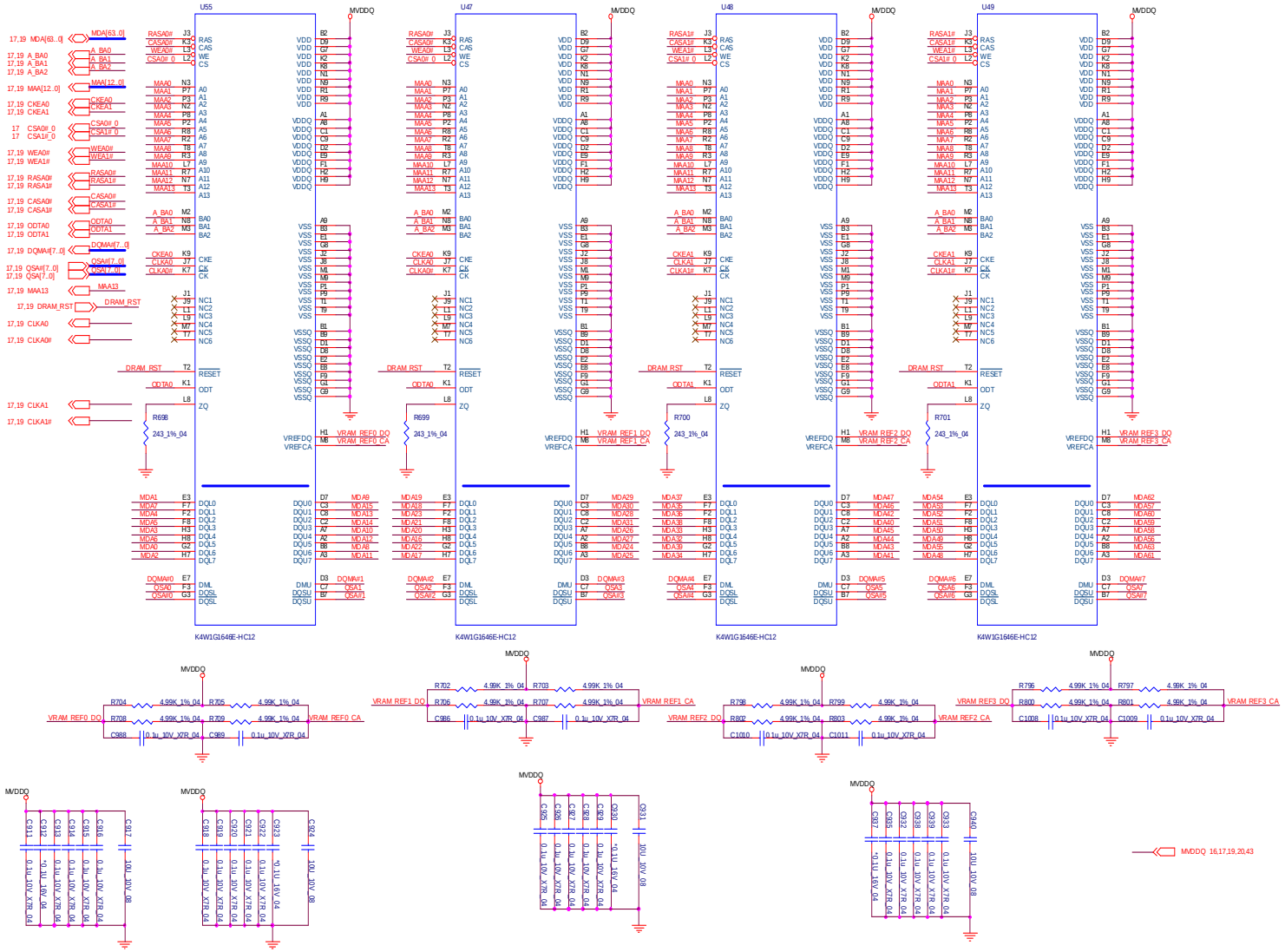
PARK S3 MEM_INTERFACE

Sheet 17 of 56
PARK S3
MEM_INTERFACE



Designator	For M9X-S2 and M93-S3	For Park-S3
R830	DNI	10K
R829	0R/Short	51R
R828	2.2K	DNI
C1032	2.2nF	68pF

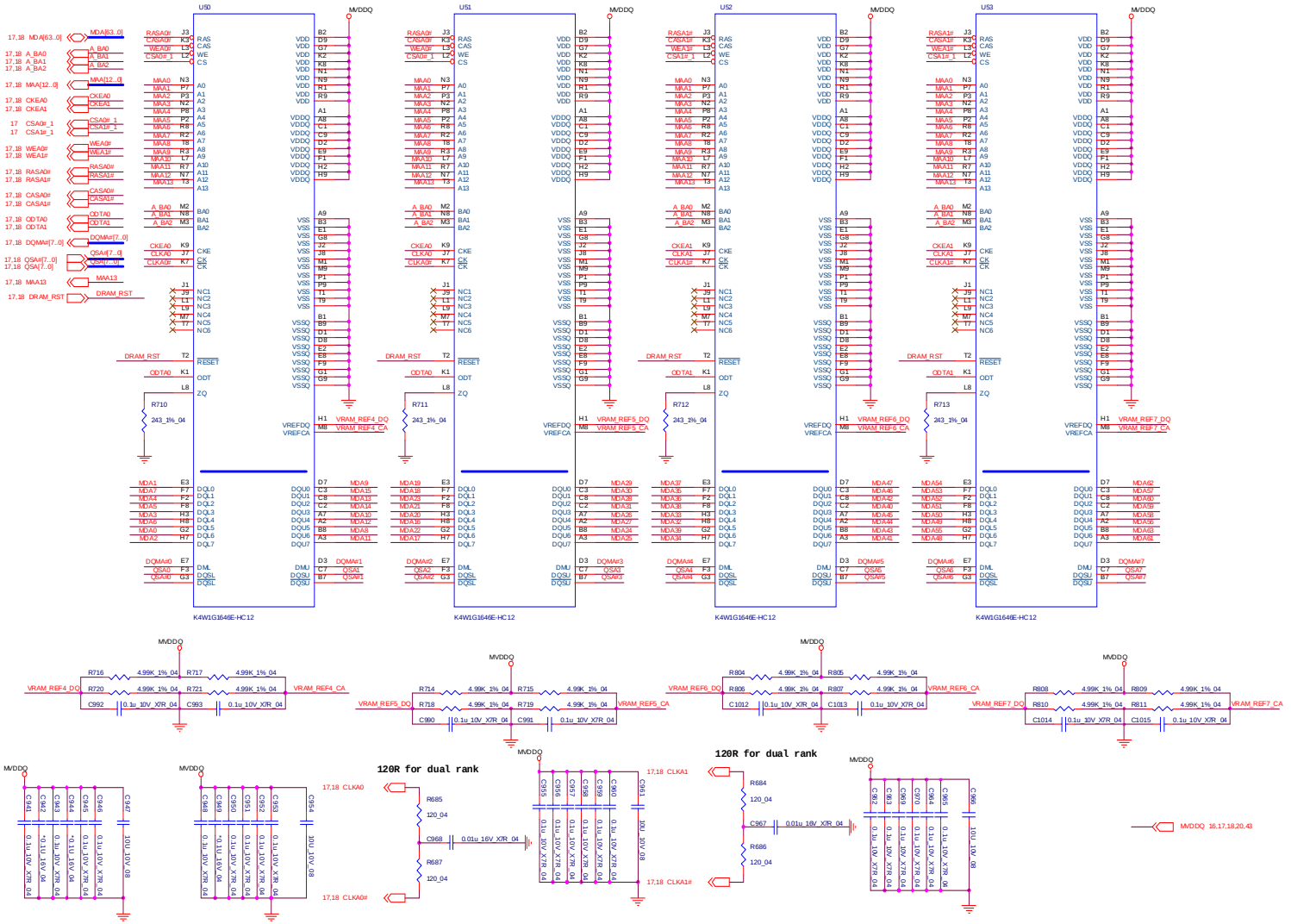
PARK S3 DDR3 MEMORY A



Sheet 18 of 56
PARK S3 DDR3
MEMORY A

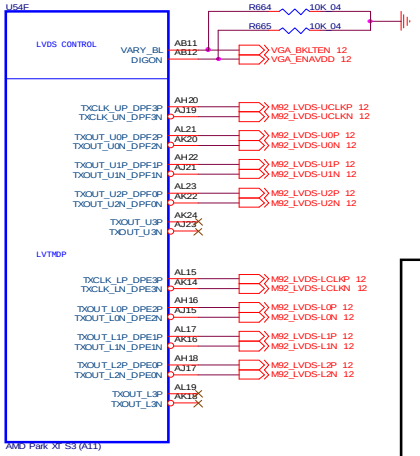
PARK S3 DDR3 MEMORY B

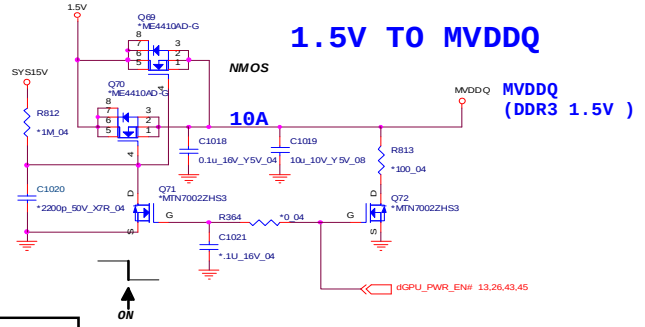
Sheet 19 of 56
PARK S3 DDR3
MEMORY B

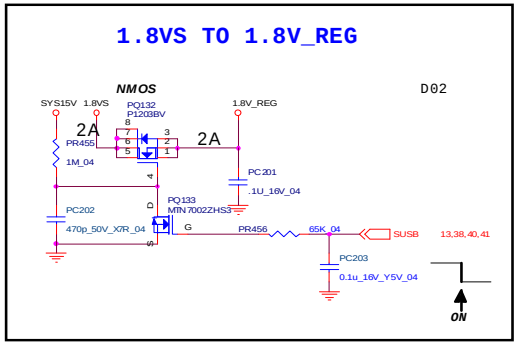


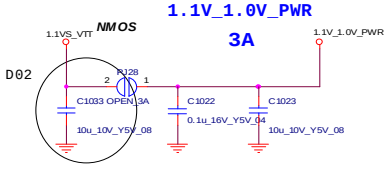
PARK S3 LVDS & STRAPS

LVDS Interface

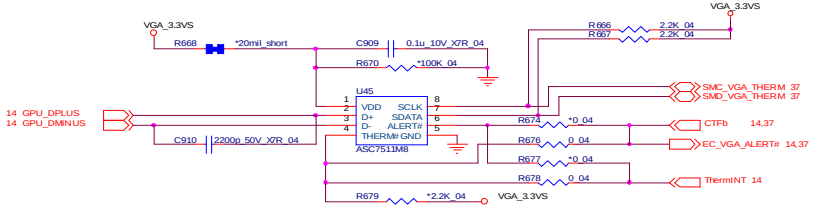








Sheet 20 of 56
PARK S3 LVDS & STRAPS



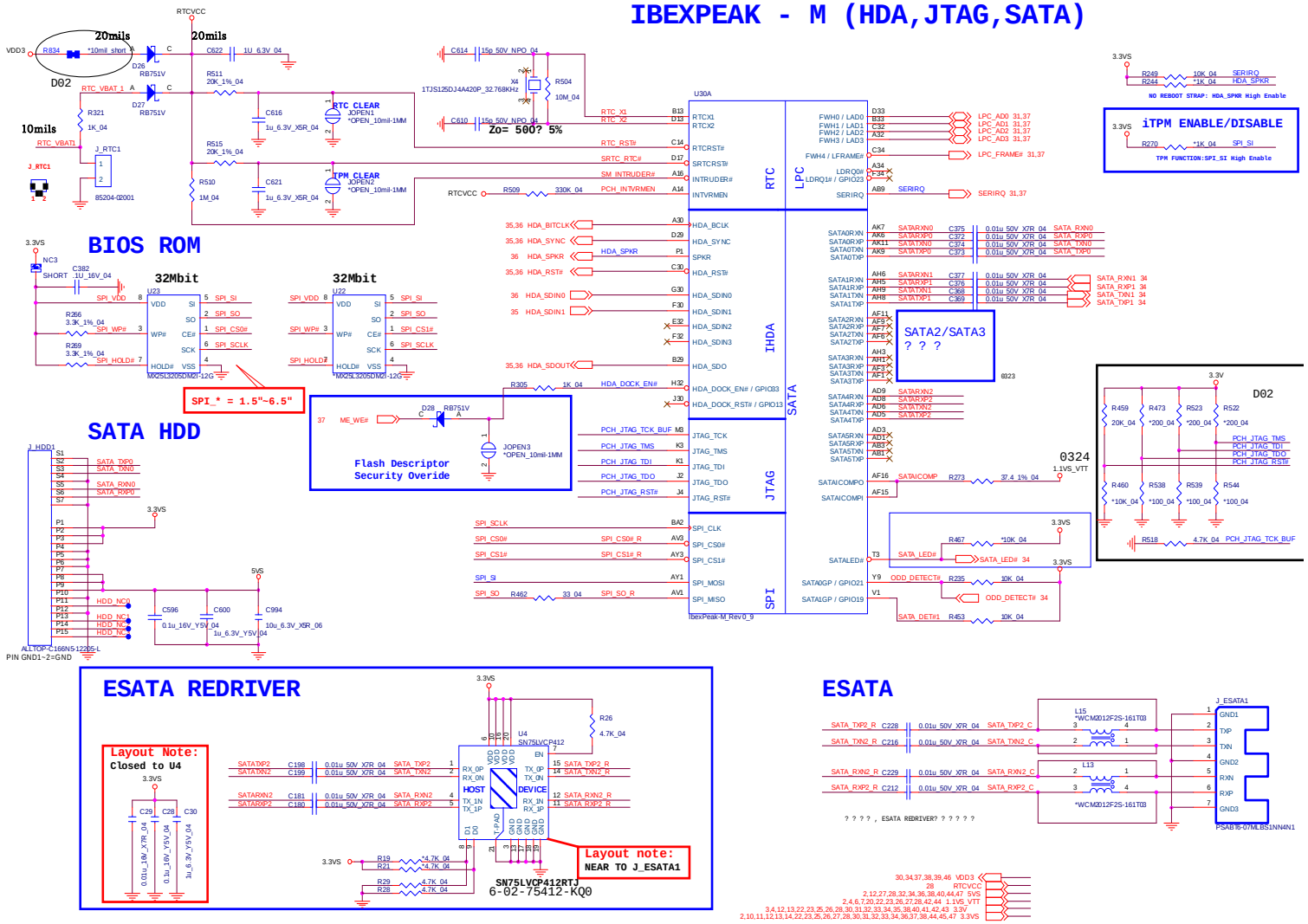
Optional External Thermal Sensor

AMD RESERVED CONFIGURATION STRAPS
ALLOW FOR PULLUP PADS FOR THESE STRAPS AND IF THESE GPIOS ARE USED, THEY MUST NOT CONFLICT DURING RESET
H2SYNC GENERICC
PULLUP PADS ARE NOT REQUIRED FOR THESE STRAPS BUT IF THESE GPIOS ARE USED, THEY MUST NOT CONFLICT DURING RESET
GPIO21_BB_EN

1.5V 4,9,10,11,38,41
1.8VS 7,27,40
1.1V_1.0V_PWR 13,14,15,16
1.1VS_VTT 2,4,6,7,21,22,23,26,27,28,42,44
SYS15V 12,38,39
1.8VS 7,27,40
1.8V_REG 14,15,16
MVDDQ 16,17,18,19,43
VGA_3.3VS 13,14

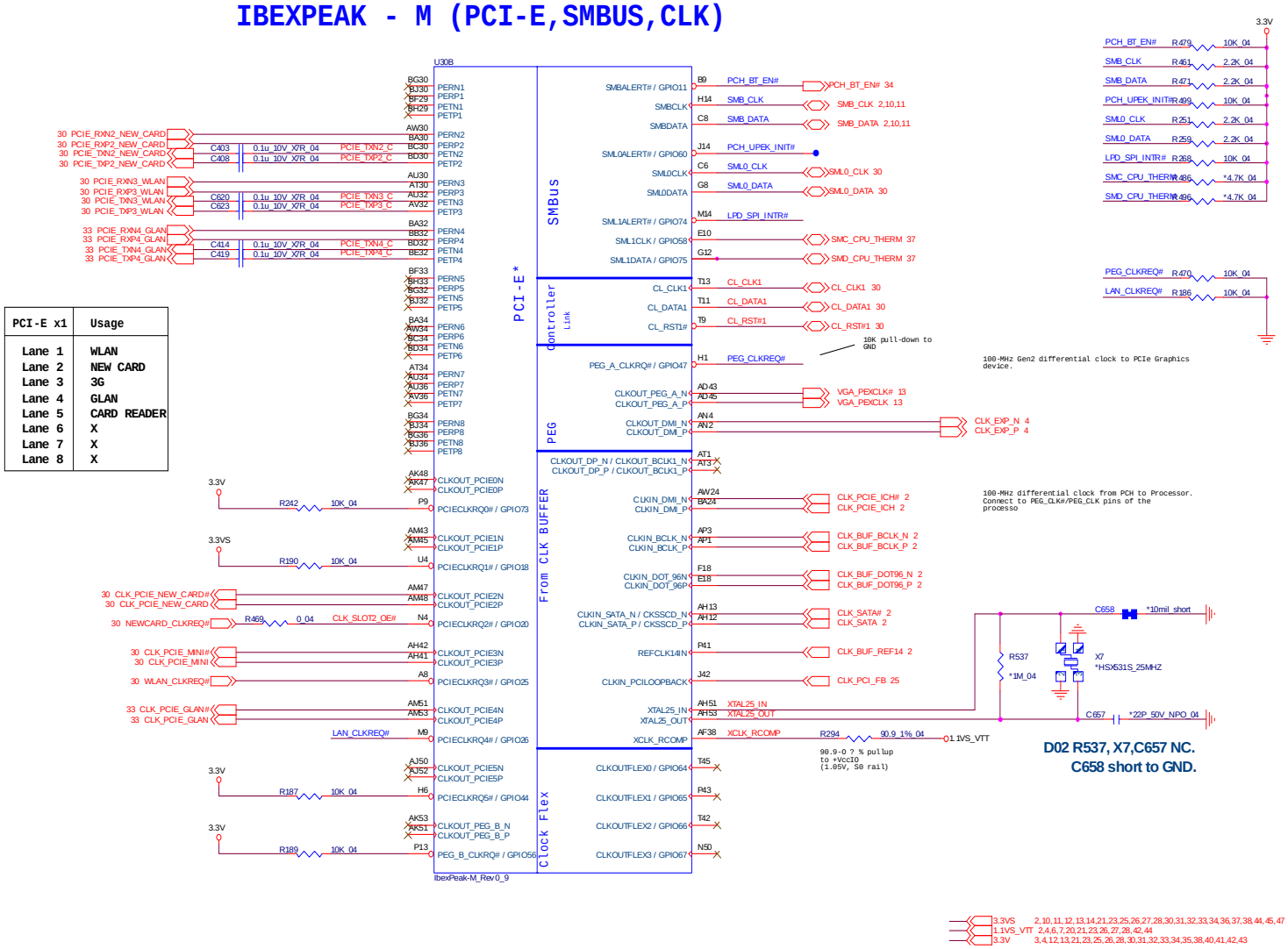
PCH 1/9 (RTC, FWH, HDA, SATA)

Sheet 21 of 56
PCH 1/9
(RTC, FWH, HDA, SATA)



PCH 2/9 (PCI-E, SMBUS, CLK)

IBEXPEAK - M (PCI-E,SMBUS,CLK)

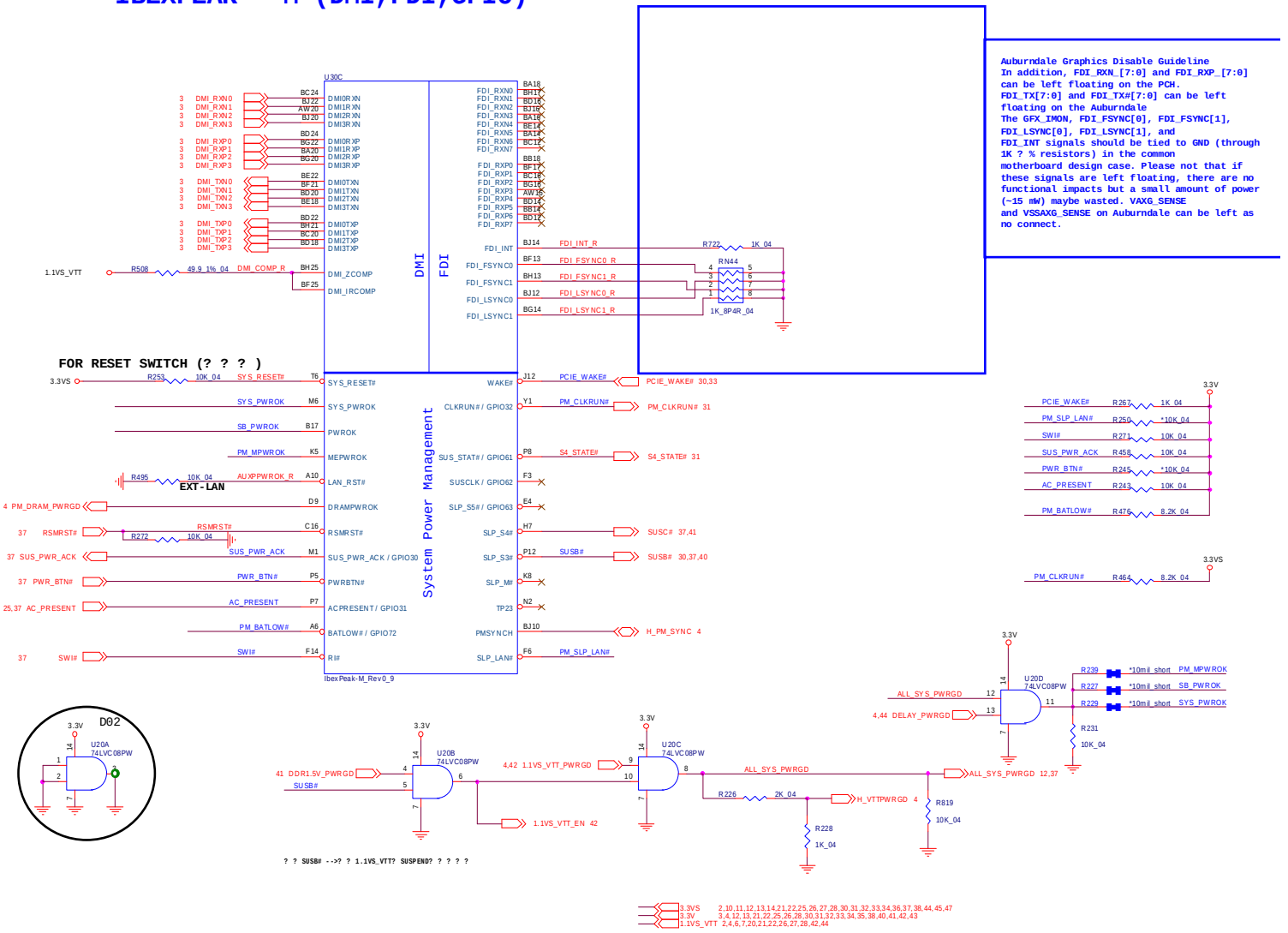


Sheet 22 of 56
PCH 2/9
(PCI-E, SMBUS, CLK)

PCH 3/9 (DMI, FDI, MISC)

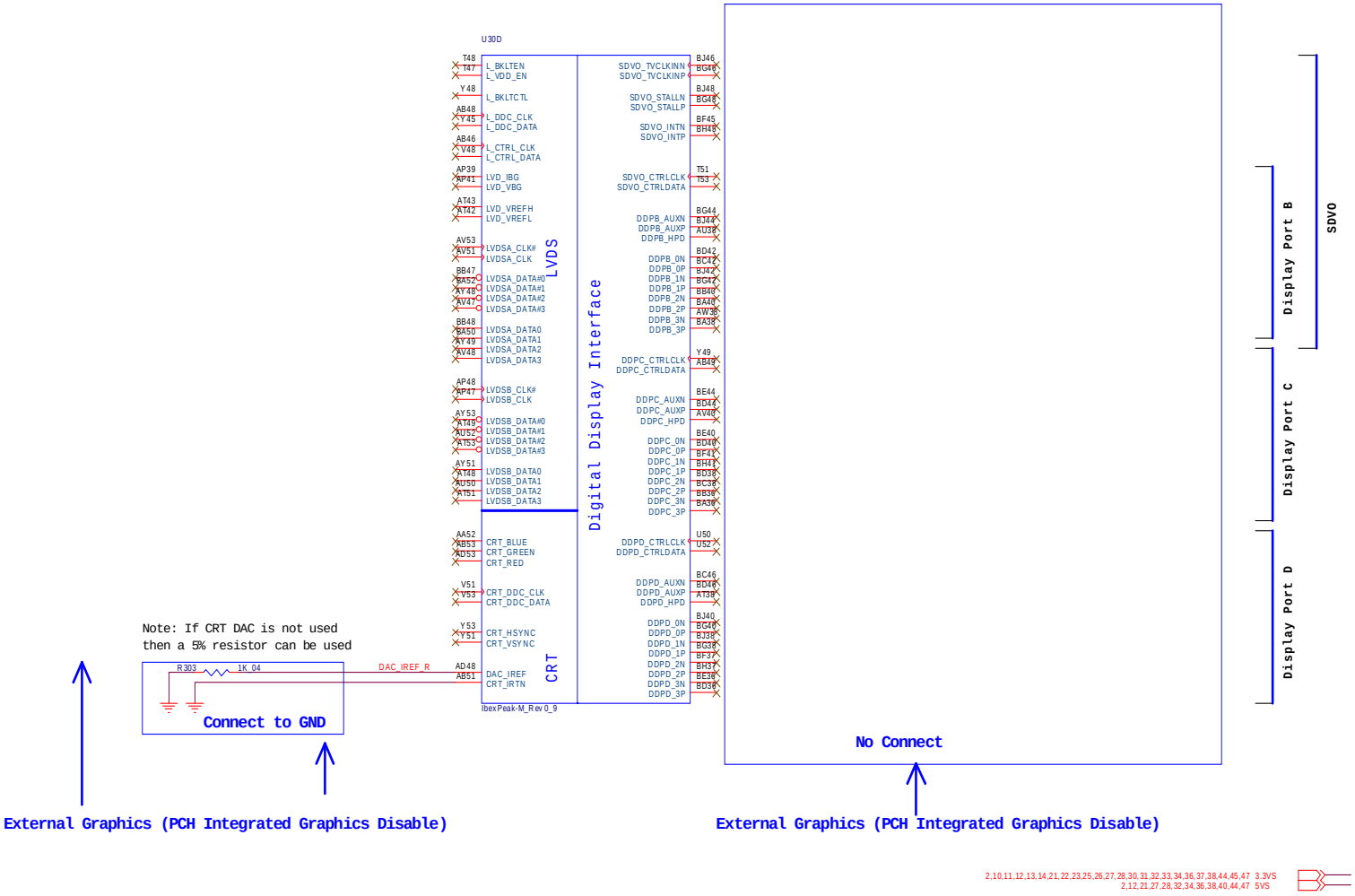
IBEXPEAK - M (DMI,FDI,GPIO)

Sheet 23 of 56
PCH 3/9
(DMI, FDI, MISC)



PCH 4/9 (LVDS, CRT, DP)

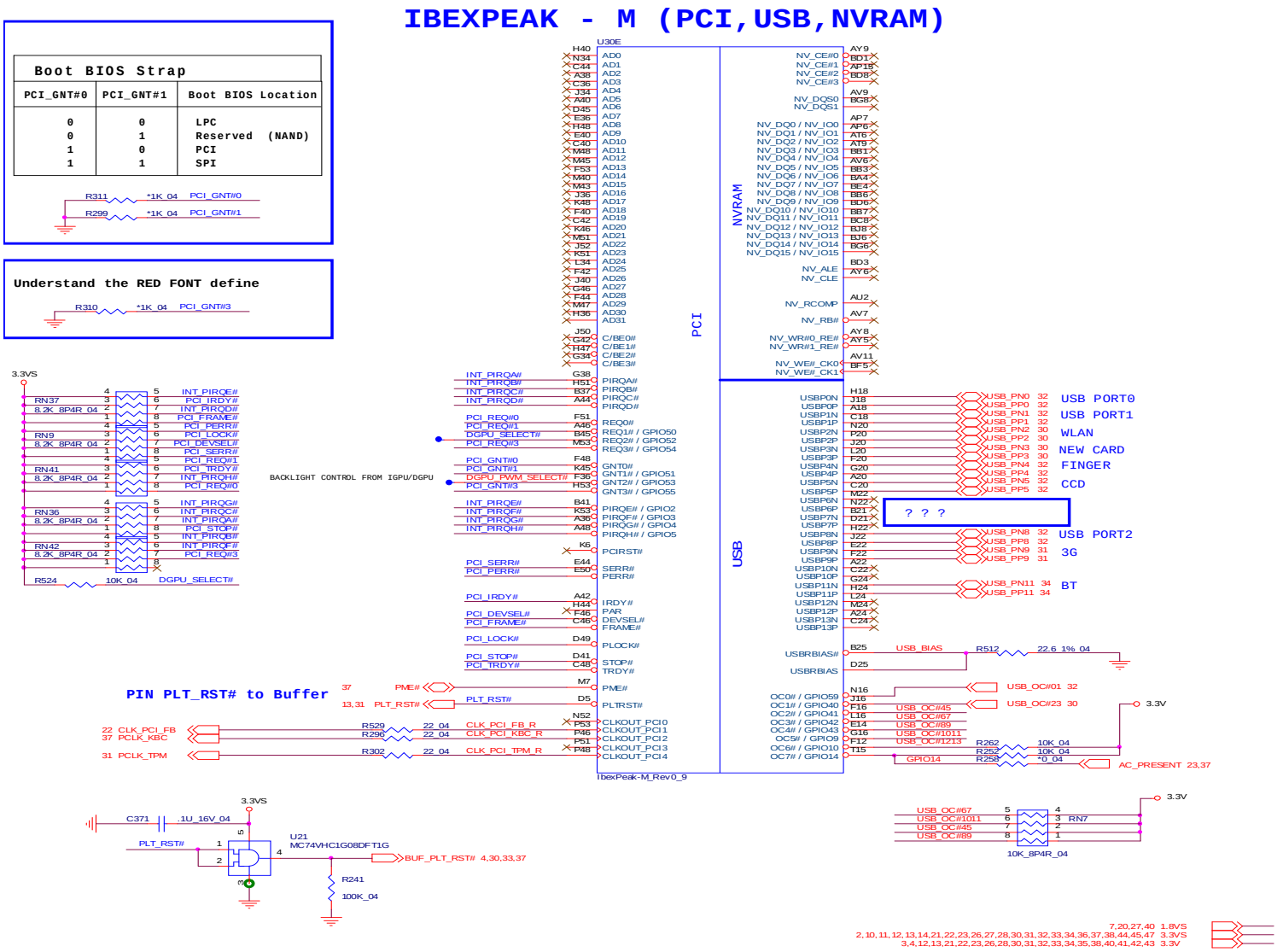
IBEXPEAK - M (LVDS,DDI)



Sheet 24 of 56
PCH 4/9
(LVDS, CRT, DP)

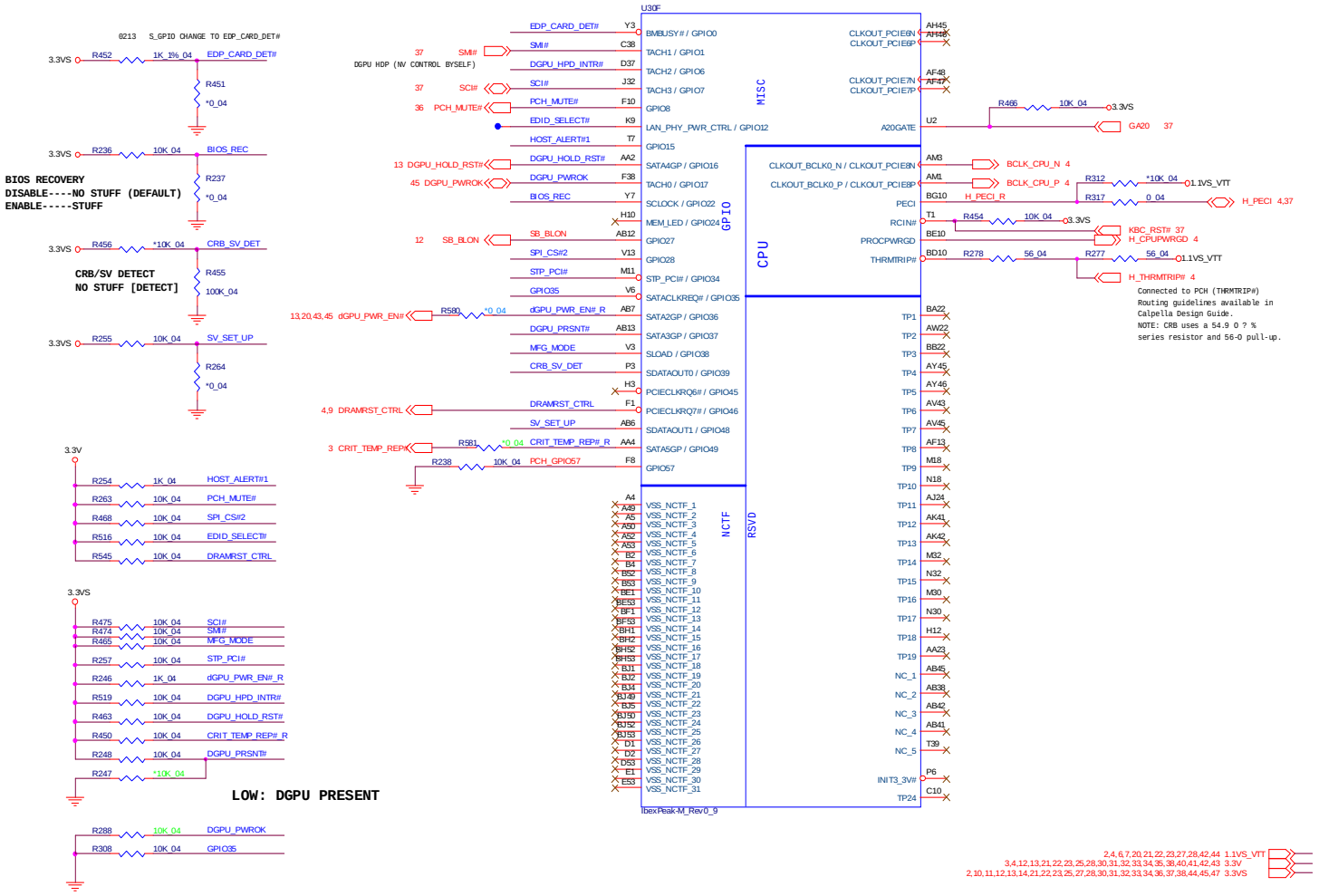
PCH 5/9 (PCI, USB, NVRAM)

Sheet 25 of 56
PCH 5/9
(PCI, USB, NVRAM)



PCH 6/9 (GPIO)

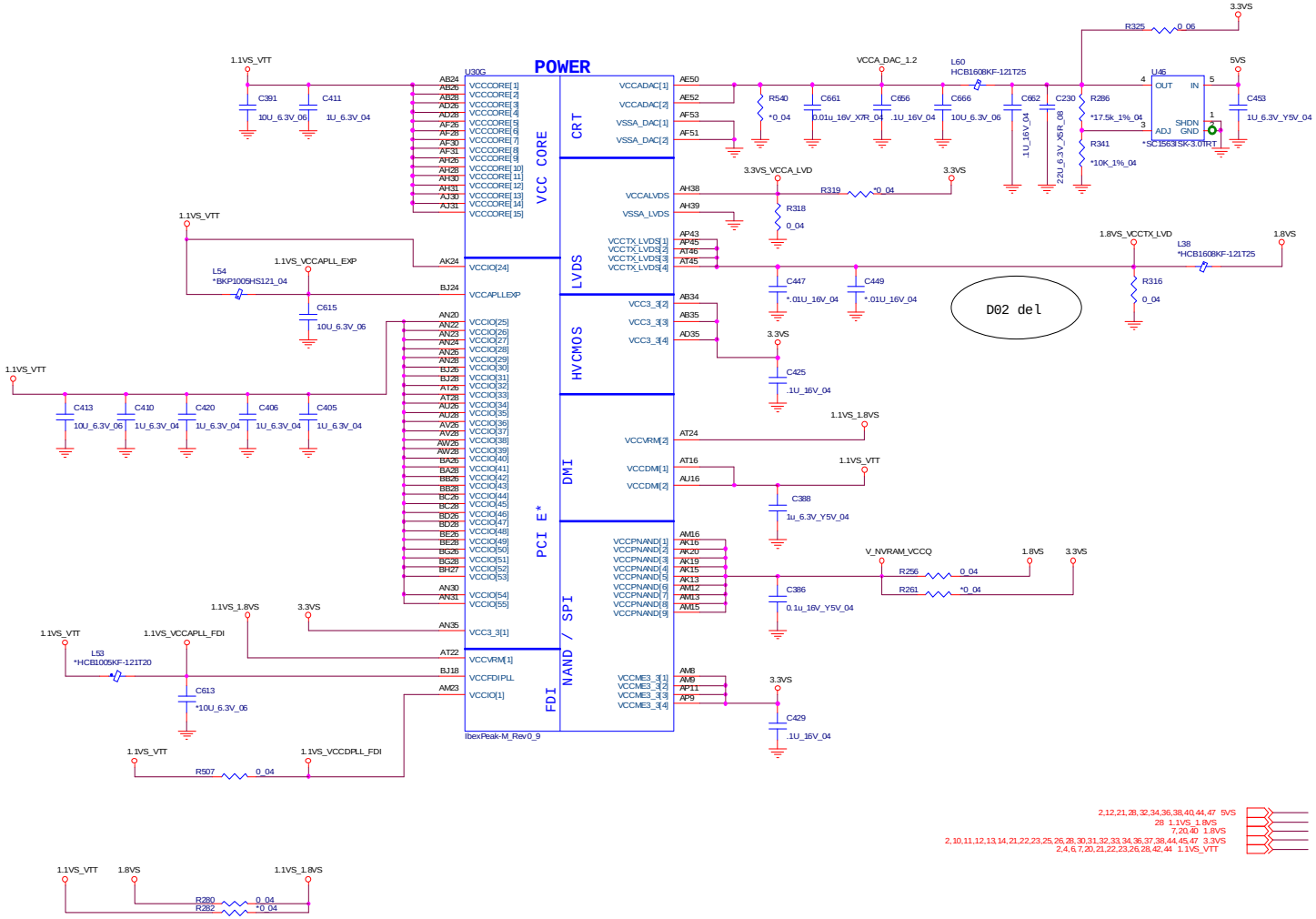
IBEXPEAK - M (GPIO,VSS_NCTF,RSVD)



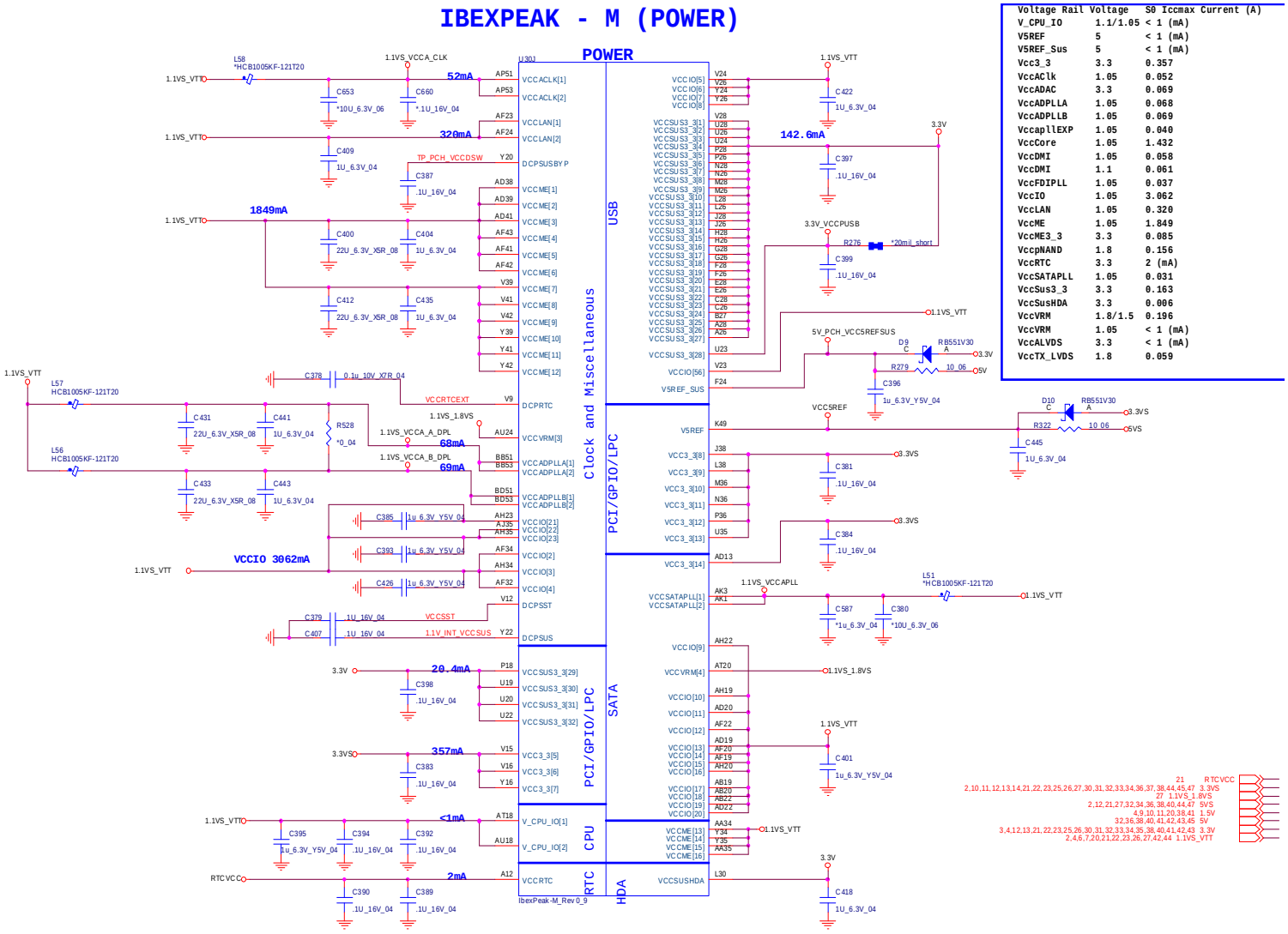
Sheet 26 of 56
PCH 6/9 (GPIO)

PCH 7/9 (POWER)

Sheet 27 of 56
PCH 7/9 (POWER)



PCH 8/9 (POWER)



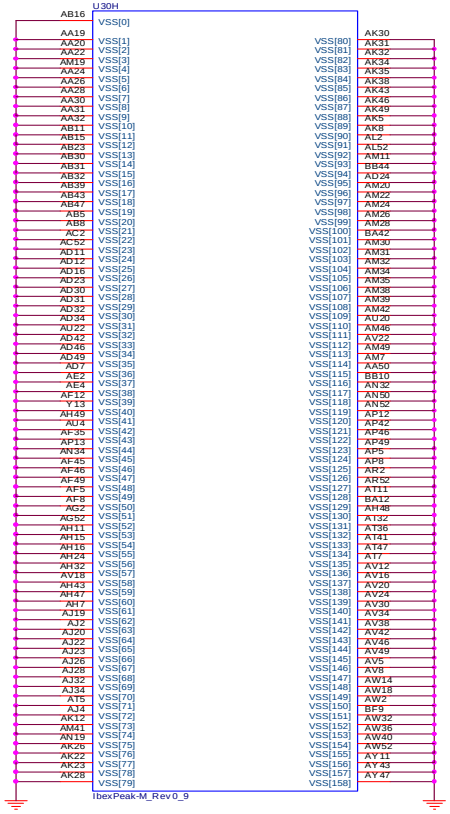
Voltage Rail	Voltage	S0 Iccmax Current (A)
V_CPU_IO	1.1/1.05	< 1 (mA)
V5REF	5	< 1 (mA)
V5REF_Sus	5	< 1 (mA)
Vcc3_3	3.3	0.357
VccAClk	1.05	0.052
VccADAC	3.3	0.069
VccADPLLA	1.05	0.068
VccADPLLB	1.05	0.069
VccapllEXP	1.05	0.040
VccCore	1.05	1.432
VccDMI	1.05	0.058
VccDMI	1.1	0.061
VccFDIPLL	1.05	0.037
VccIO	1.05	3.062
VccLAN	1.05	0.320
VccME	1.05	1.849
VccME3_3	3.3	0.085
VccpNAND	1.8	0.156
VccRTC	3.3	2 (mA)
VccSATAPLL	1.05	0.031
VccSus3_3	3.3	0.163
VccSusHDA	3.3	0.006
VccVRM	1.8/1.5	0.196
VccVRM	1.05	< 1 (mA)
VccALVDS	3.3	< 1 (mA)
VccTX_LVDS	1.8	0.059

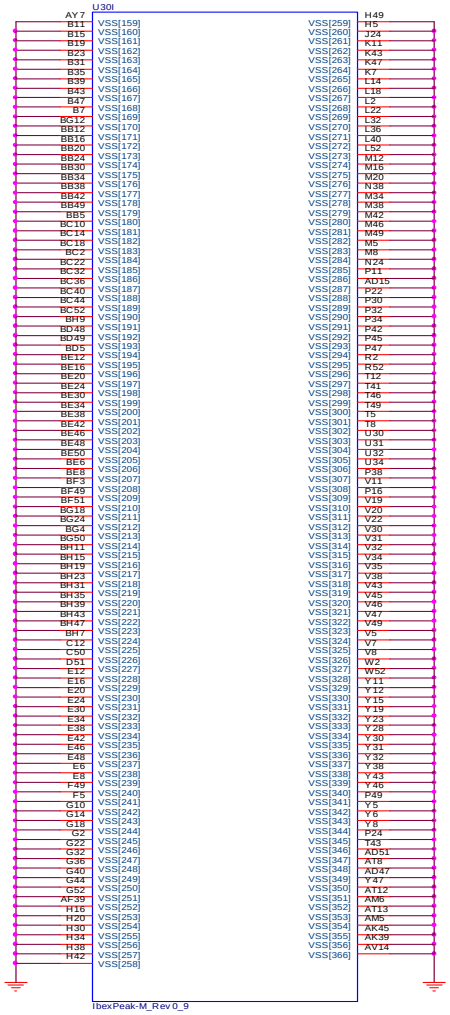
Sheet 28 of 56
PCH 8/9 (POWER)

PCH 9/9 (GND)

IBEXPEAK - M (GND)

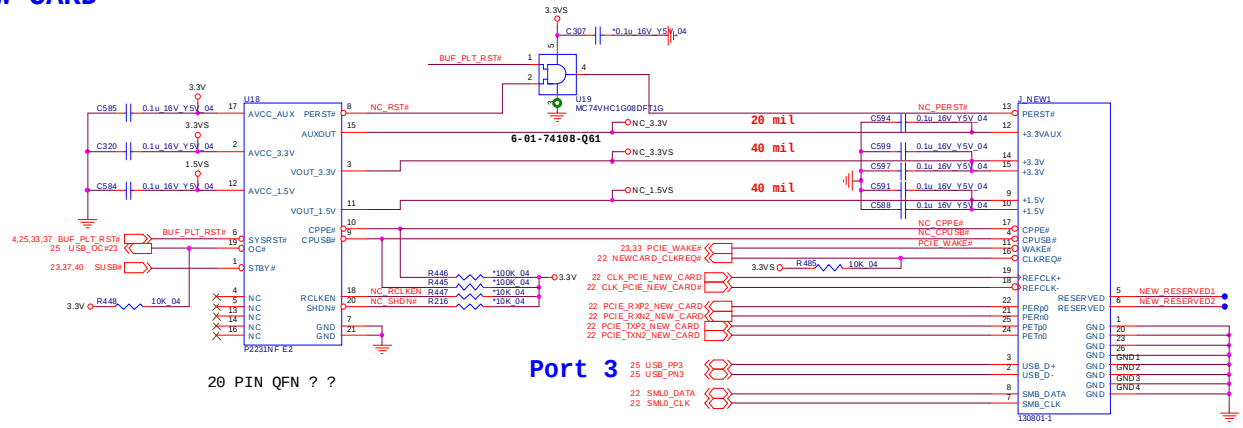
Sheet 29 of 56
PCH 9/9 (GND)



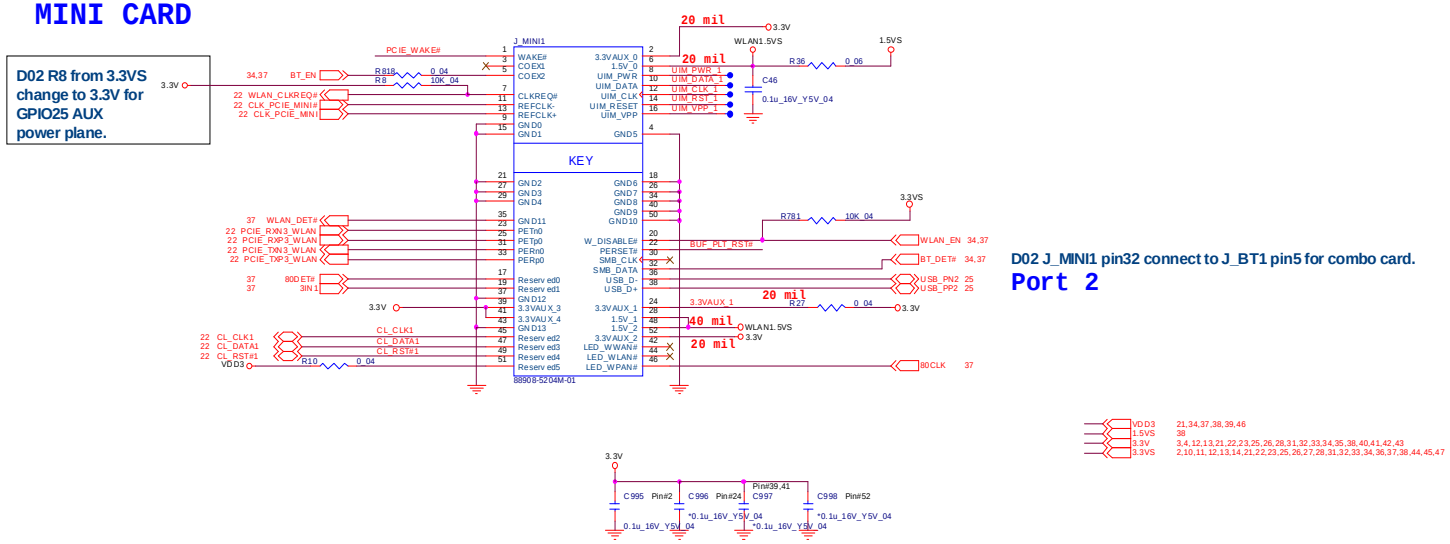


NEW CARD, MINI PCIE

NEW CARD



MINI CARD



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NEW CARD, MINI PCIE

B.Schematic Diagrams

3G, TPM

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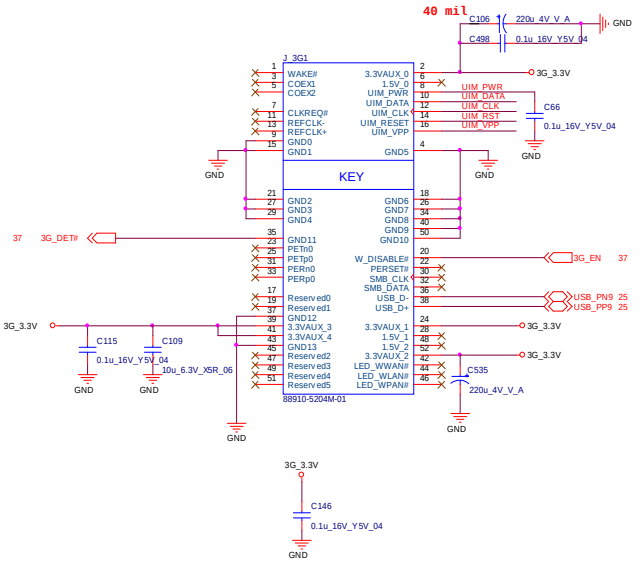
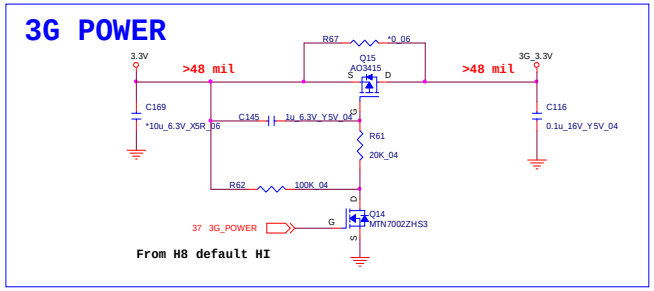
3G, TPM

3G

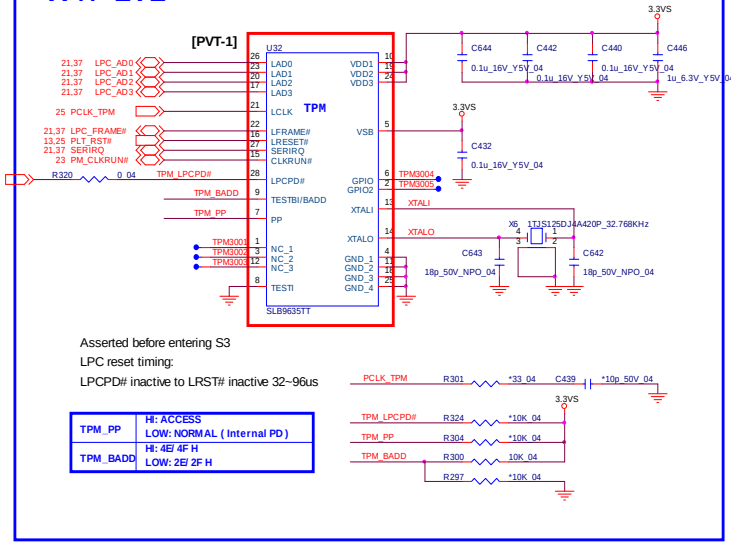


3G POWER

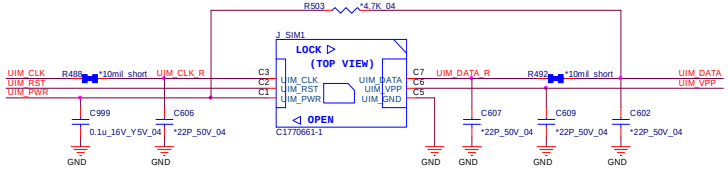


Port 9

TPM 1.2



SIM CONN

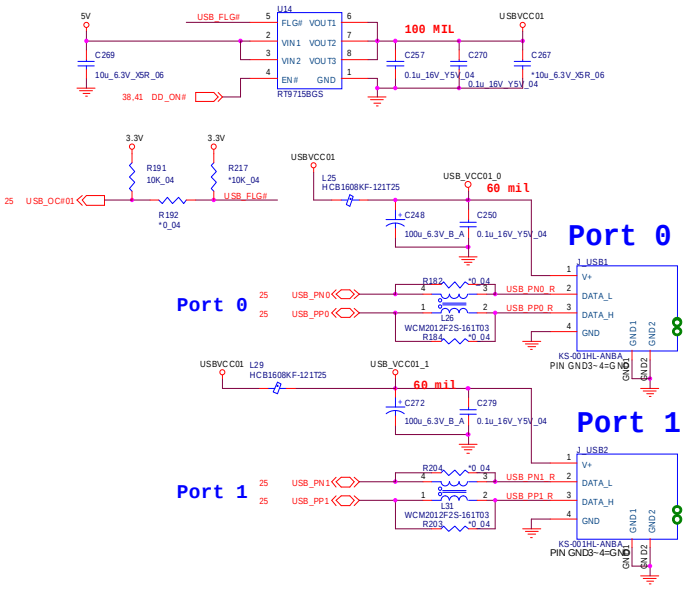


Layout?
1. SIM? ? ? ? ? ? ? ? (10mil)
2. ? ? ? ? ? ? ? ? GND
3. SIM hold ? ? ? ? ? GND? ?
4.SIM CONN ? ? MINI CARD CONN

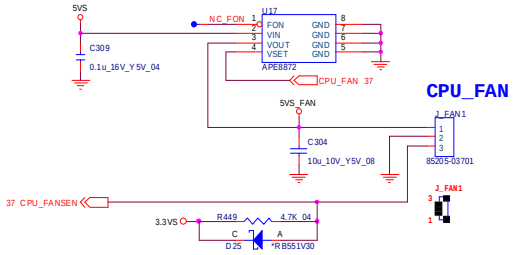
W/O 3G W/O TPM? ? ? ? ? ?

USB, FAN, TP, FP, MULTI-CONN

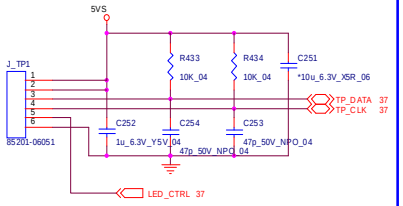
USB PORT*2



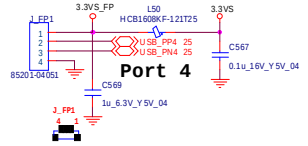
FAN CONTROL



CLICK CONN FOR M760T/B5120

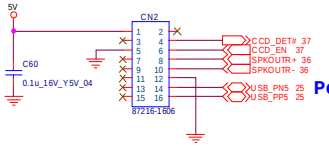


FP CONN

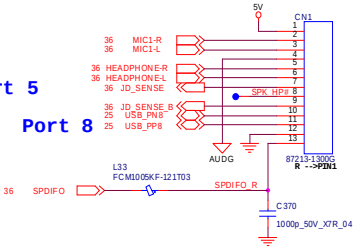


MULTI I/O CONN

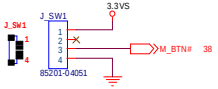
FOR MULTI IO BOARD



FOR PHONE JACK BOARD

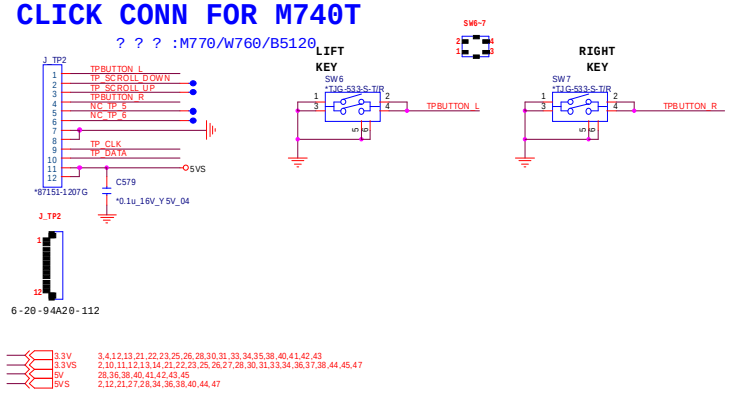


FOR POWER SWITCH BOARD



CLICK CONN FOR M740T

? ? ? :M770/W760/B5120



Sheet 32 of 56
USB, Fan, TP, FP, MULTI-CONN

CARD READER (JMC 251)

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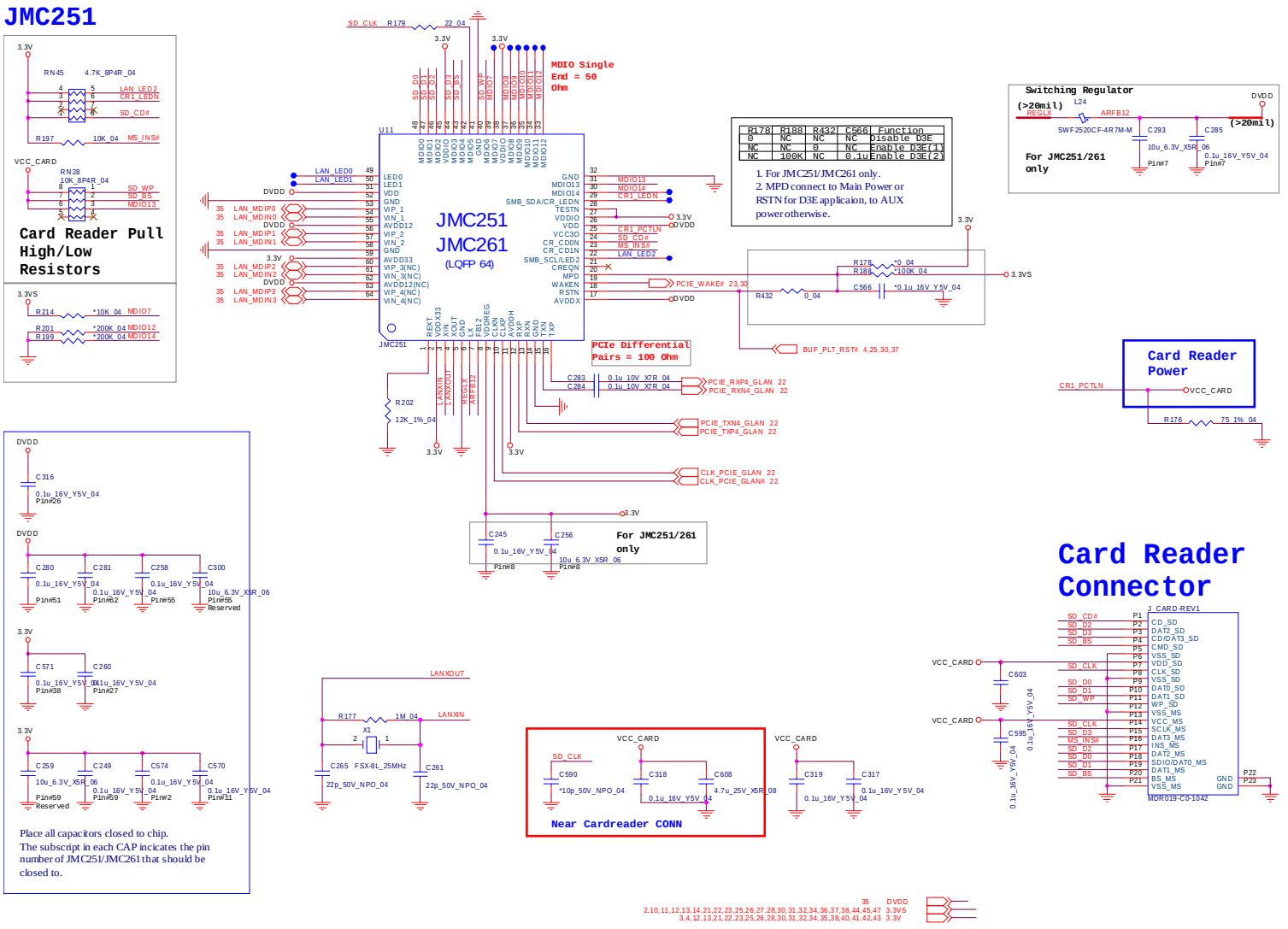
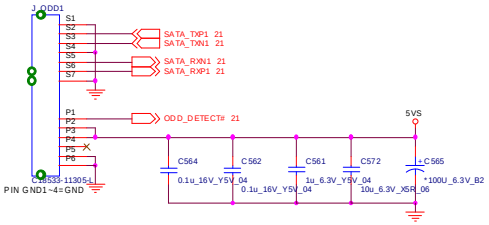
CARD READER
(JMC 251)

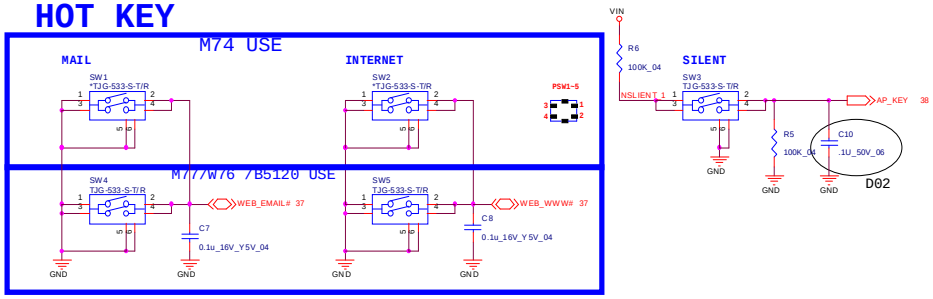


SATA ODD, LED, HOTKEY, LID, BT

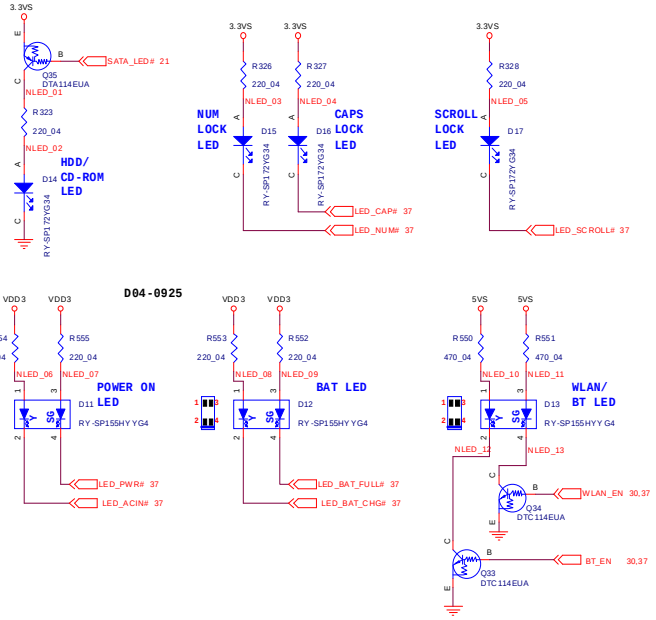
SATA ODD



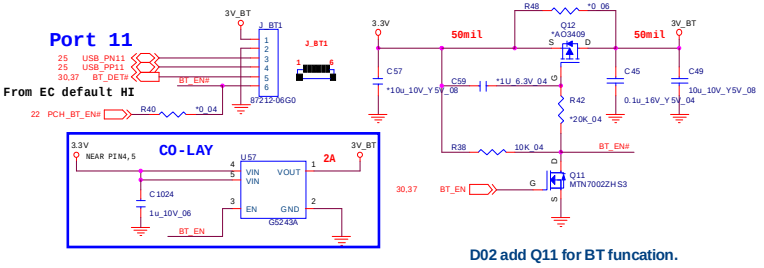
HOT KEY



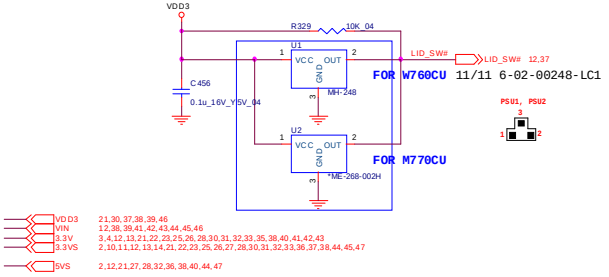
LED



Bluetooth



LID SWITCH IC



Sheet 34 of 56
SATA ODD, LED, HOTKEY, LID, BT

LAN (JMC251), MODEM

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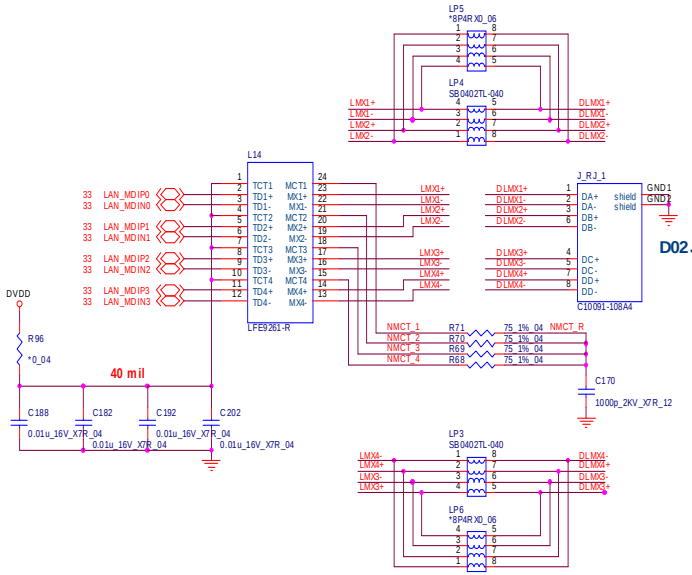
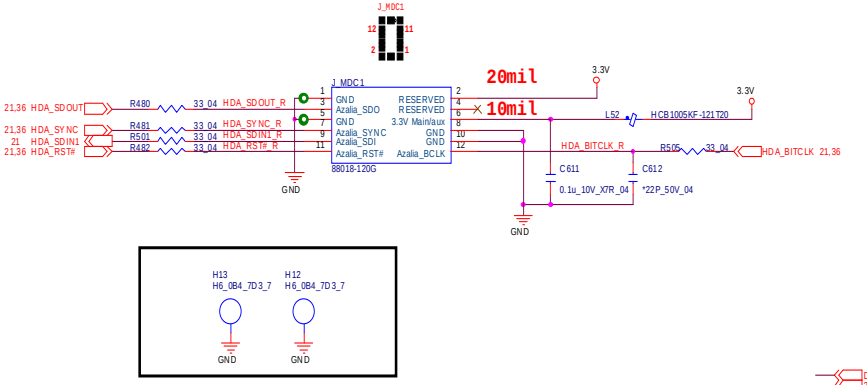
LAN (JMC251),
MODEM

LAN (JMC251)

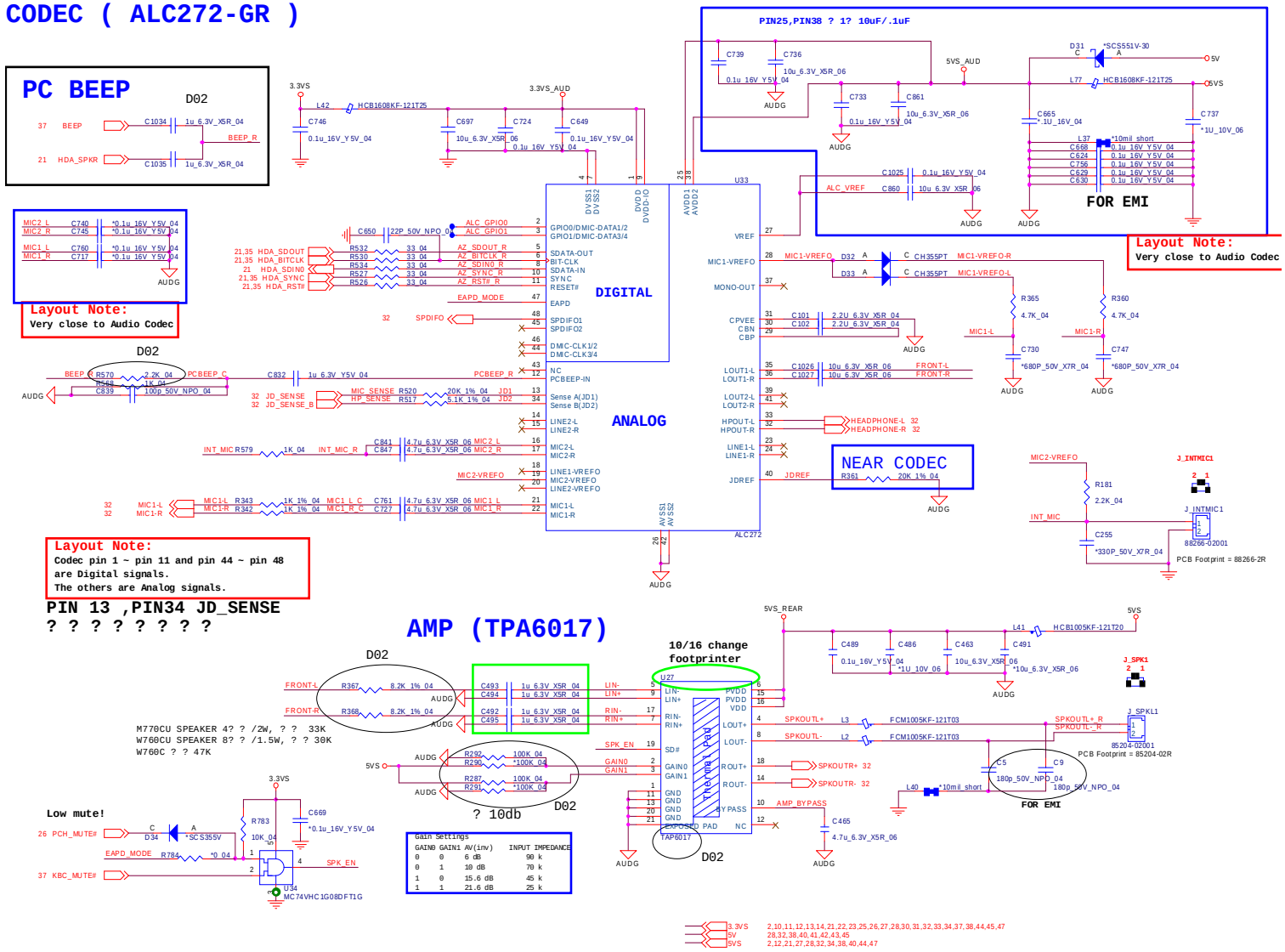


MDC MODULE



AUDIO CODEC ALC272

CODEC (ALC272-GR)



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AUDIO CODEC
ALC272

KBC-ITE IT8502E

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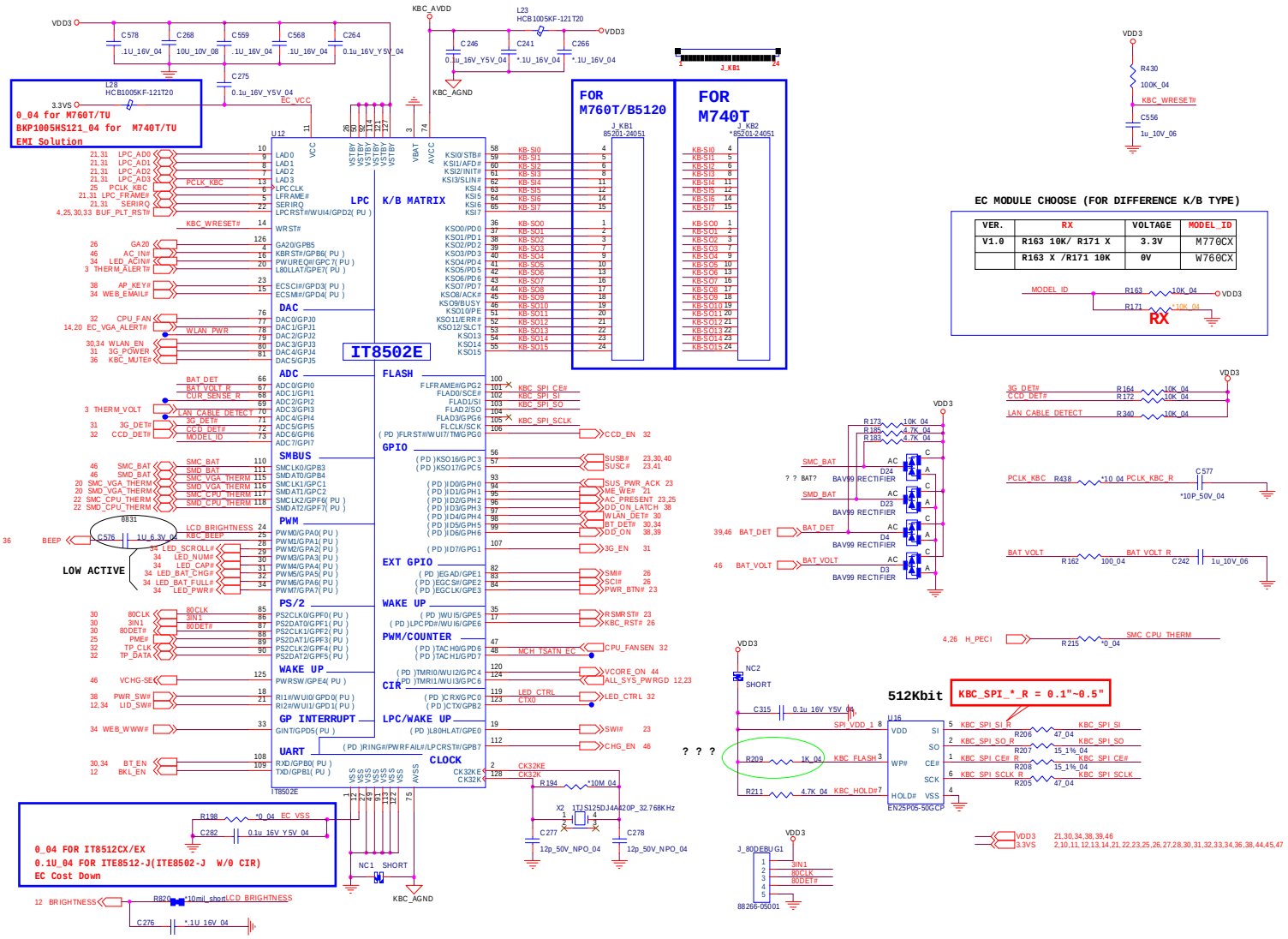
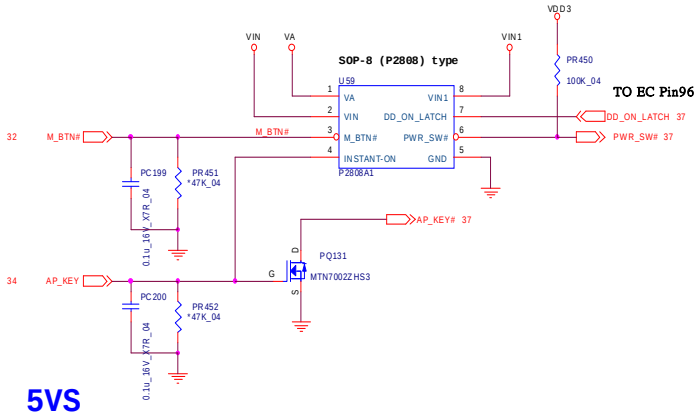
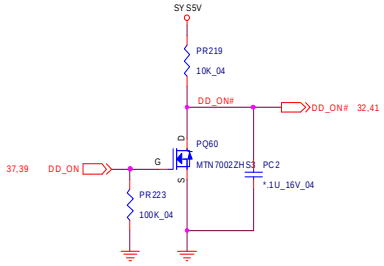
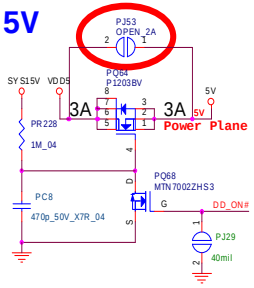
KBC-ITE IT8502E

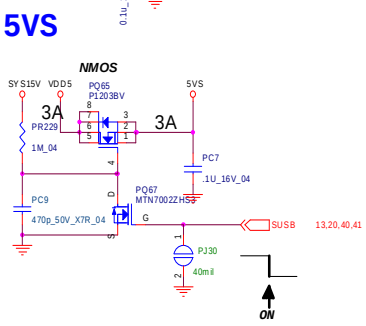


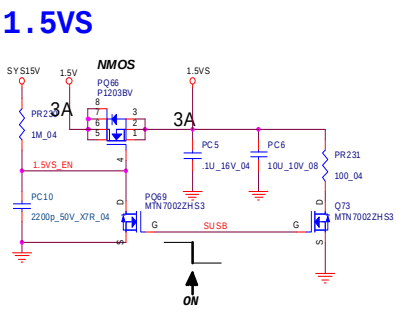
5VS, 3.3VS, 1.5VS, VIN1

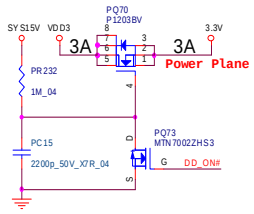


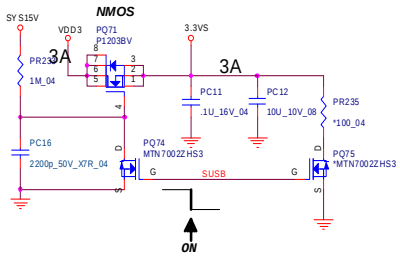


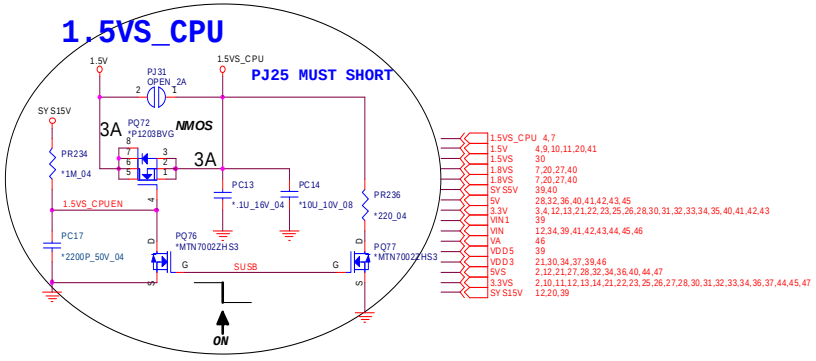












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5VS, 3.3VS, 1.5VS, VIN1

POWER 3.3V/5V

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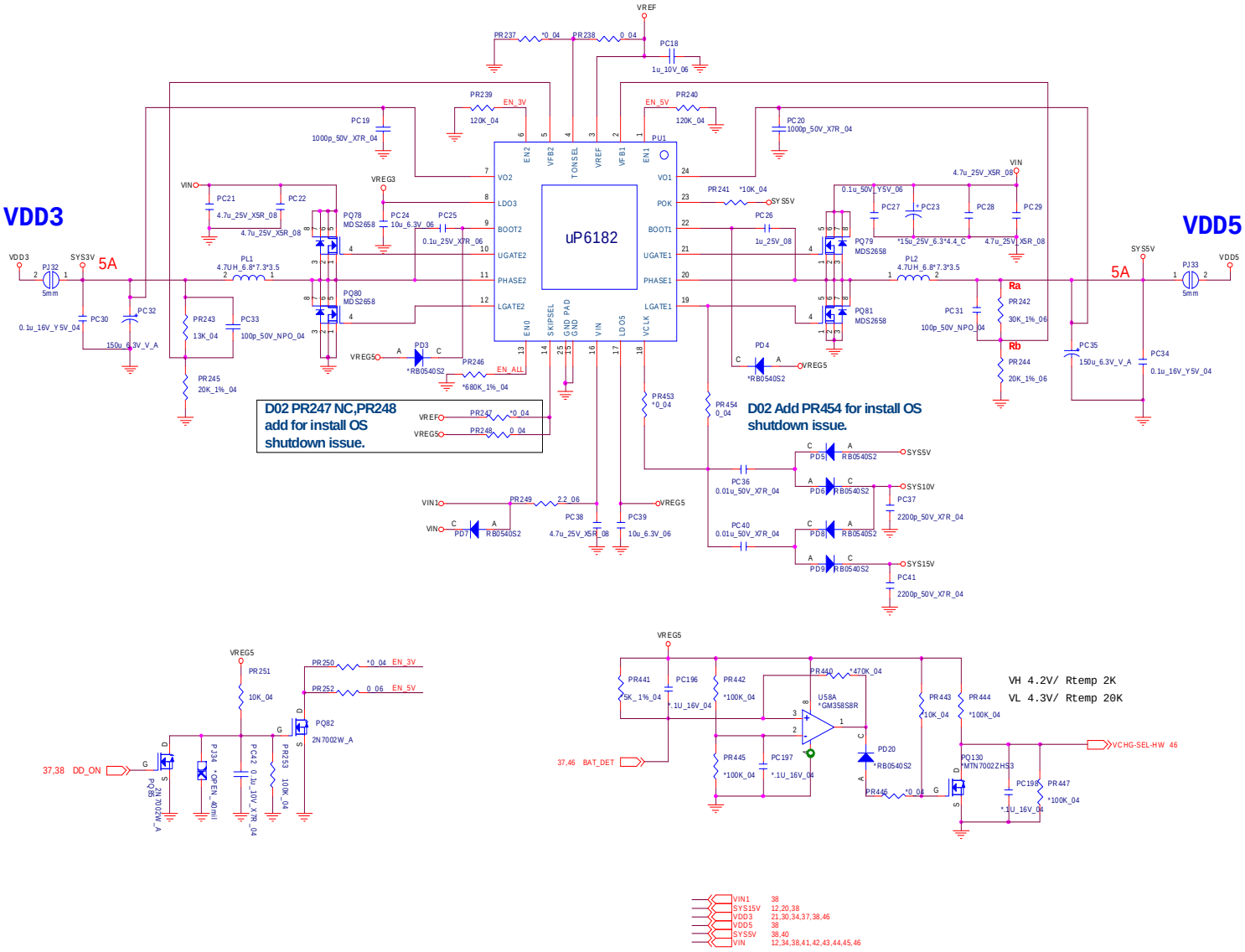
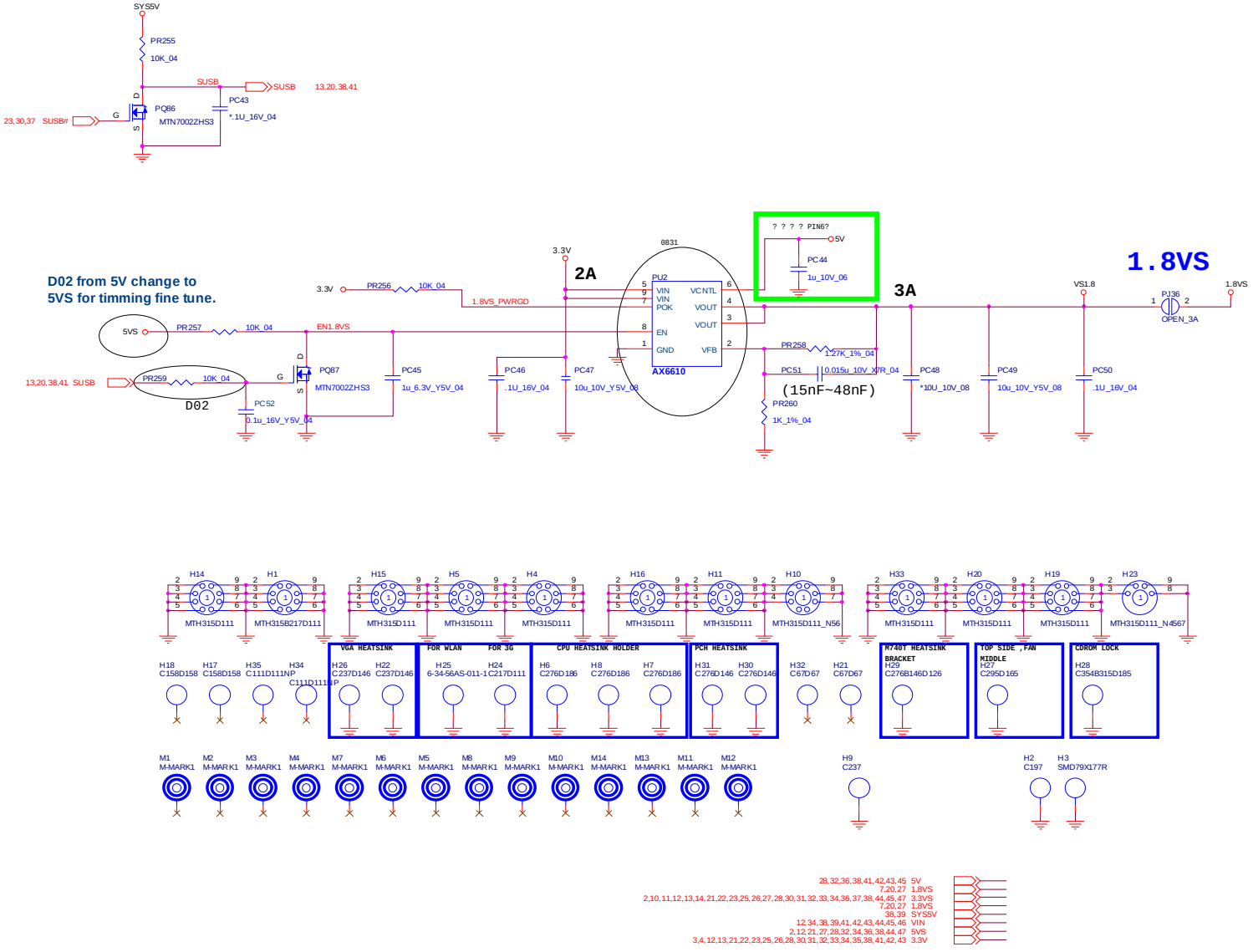
POWER 3.3V/5V



POWER 1.8V



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POWER 1.8V

POWER 1.5V/0.75V

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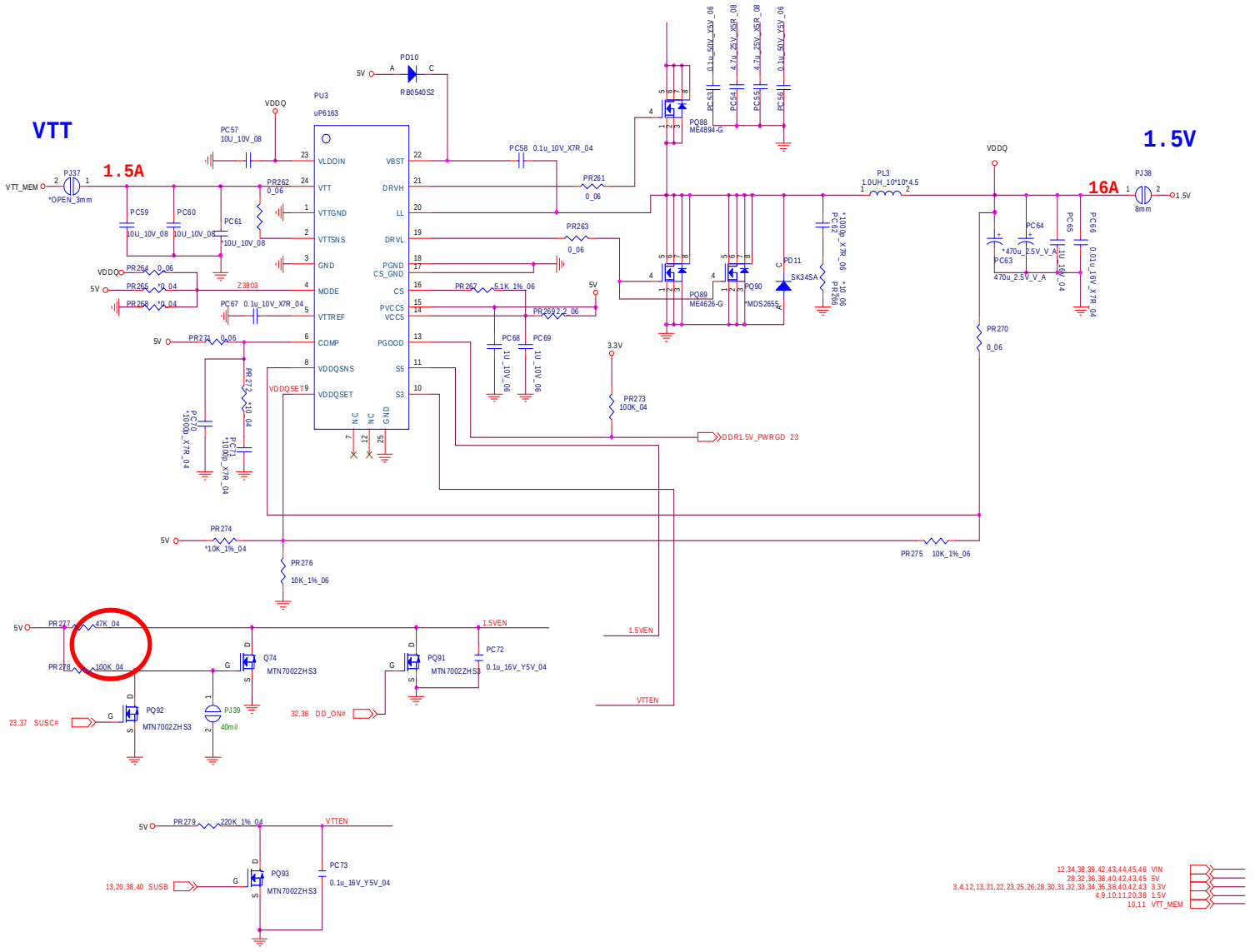
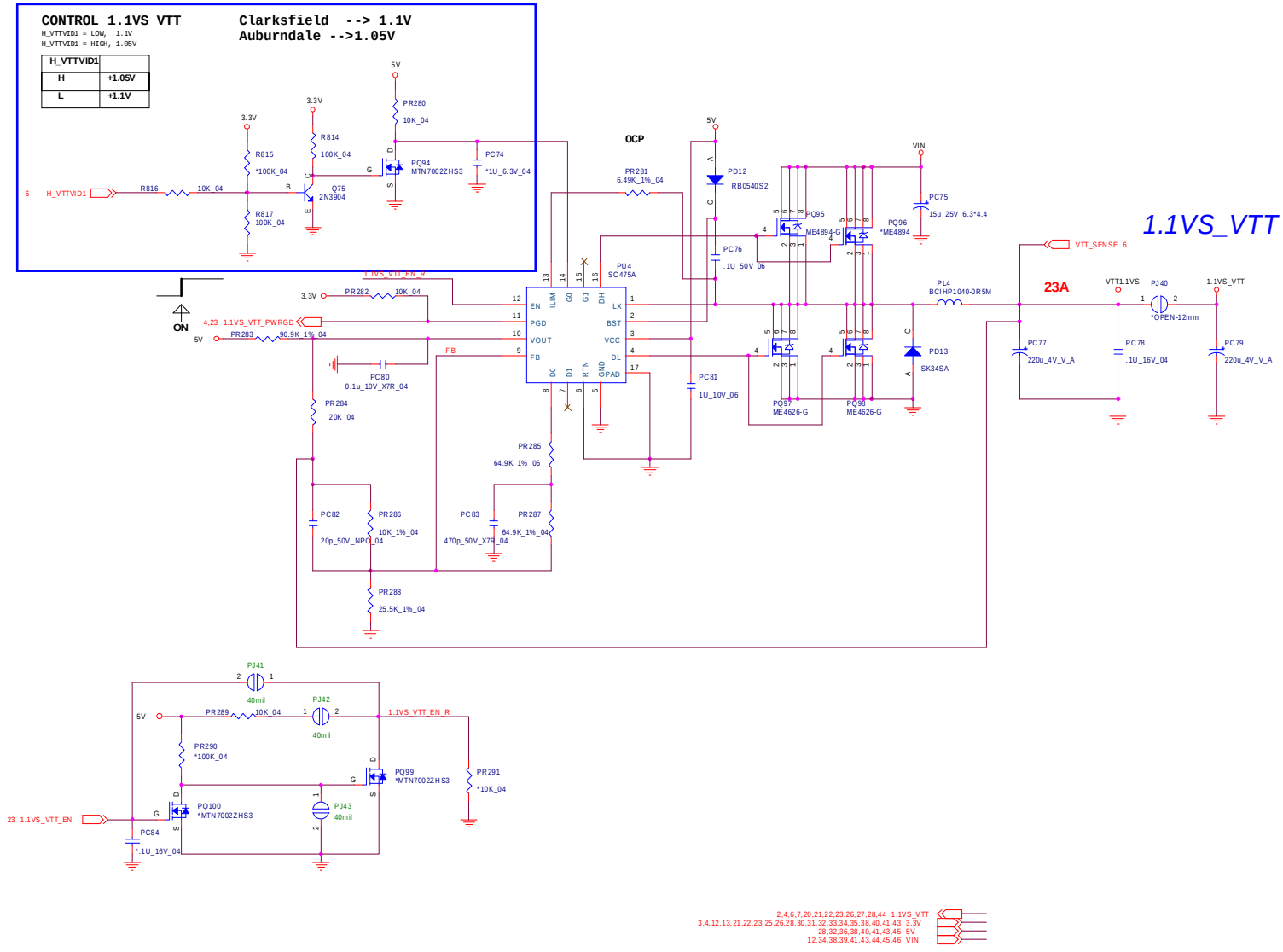
POWER 1.5V/0.75V



POWER 1.1VS_VTT



POWER Vram 1.5VS

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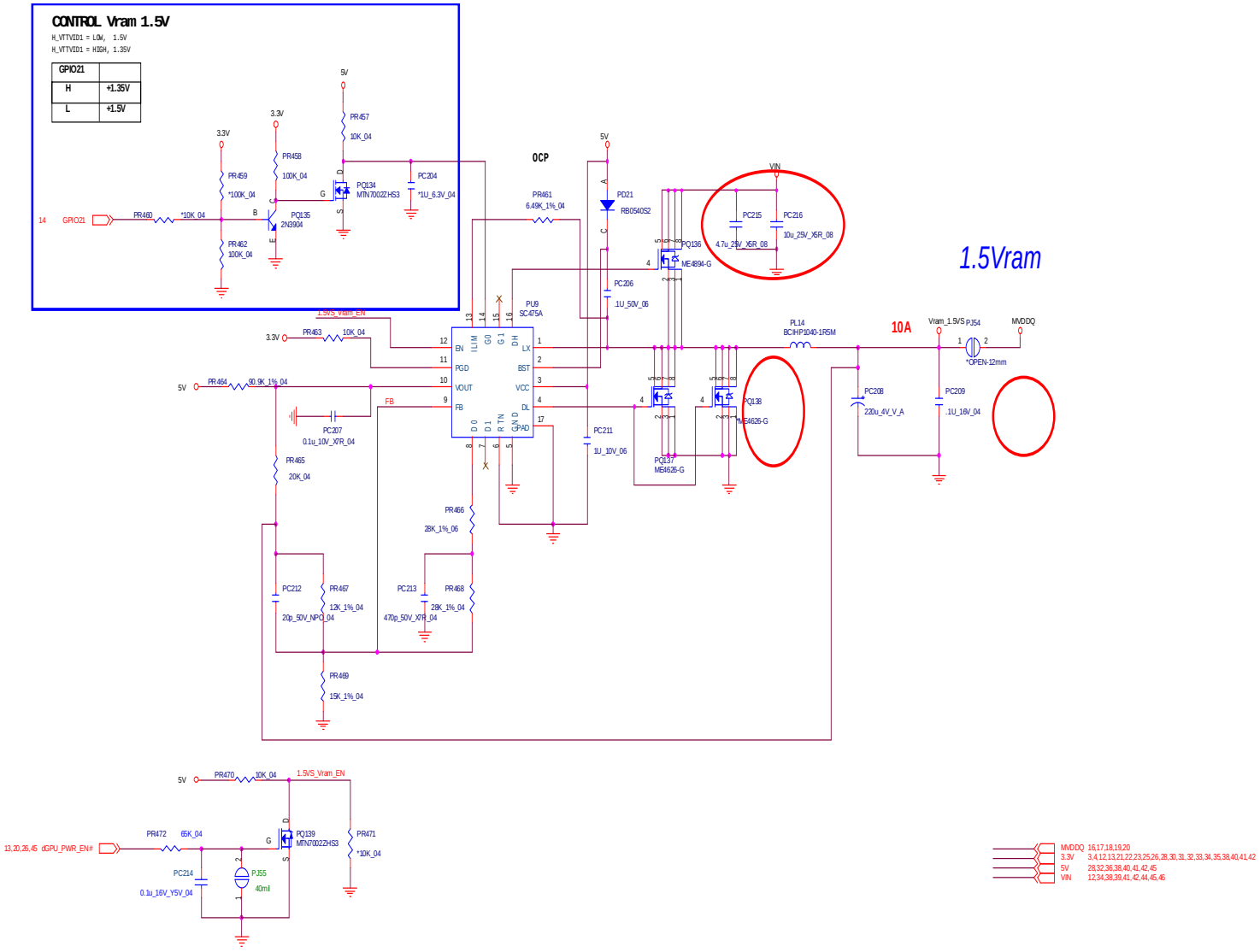
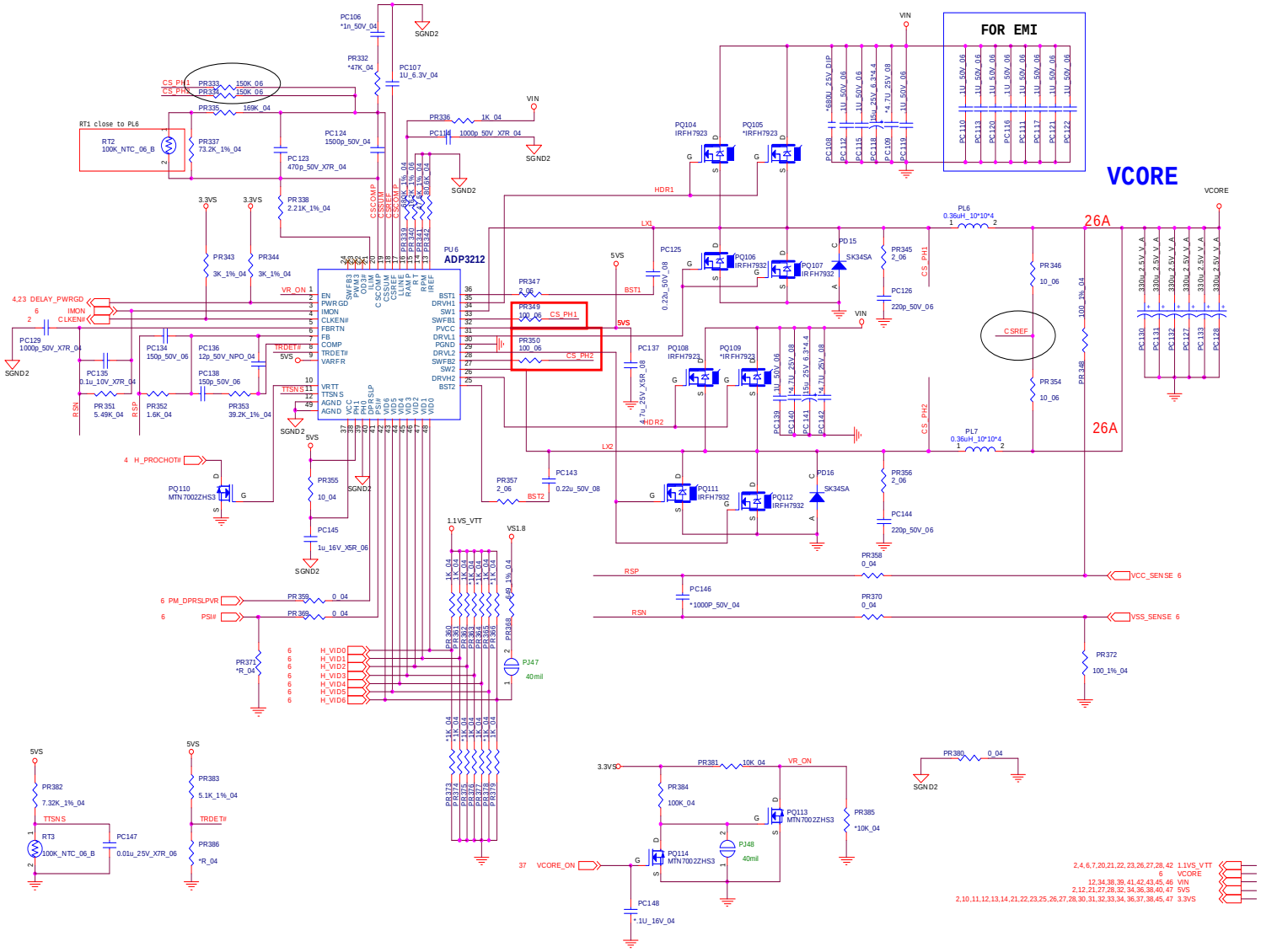
POWER VRAM
1.5VS



V-CORE



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V-CORE

M92 VDDC

FOR ATI M92-S2 XT VGA

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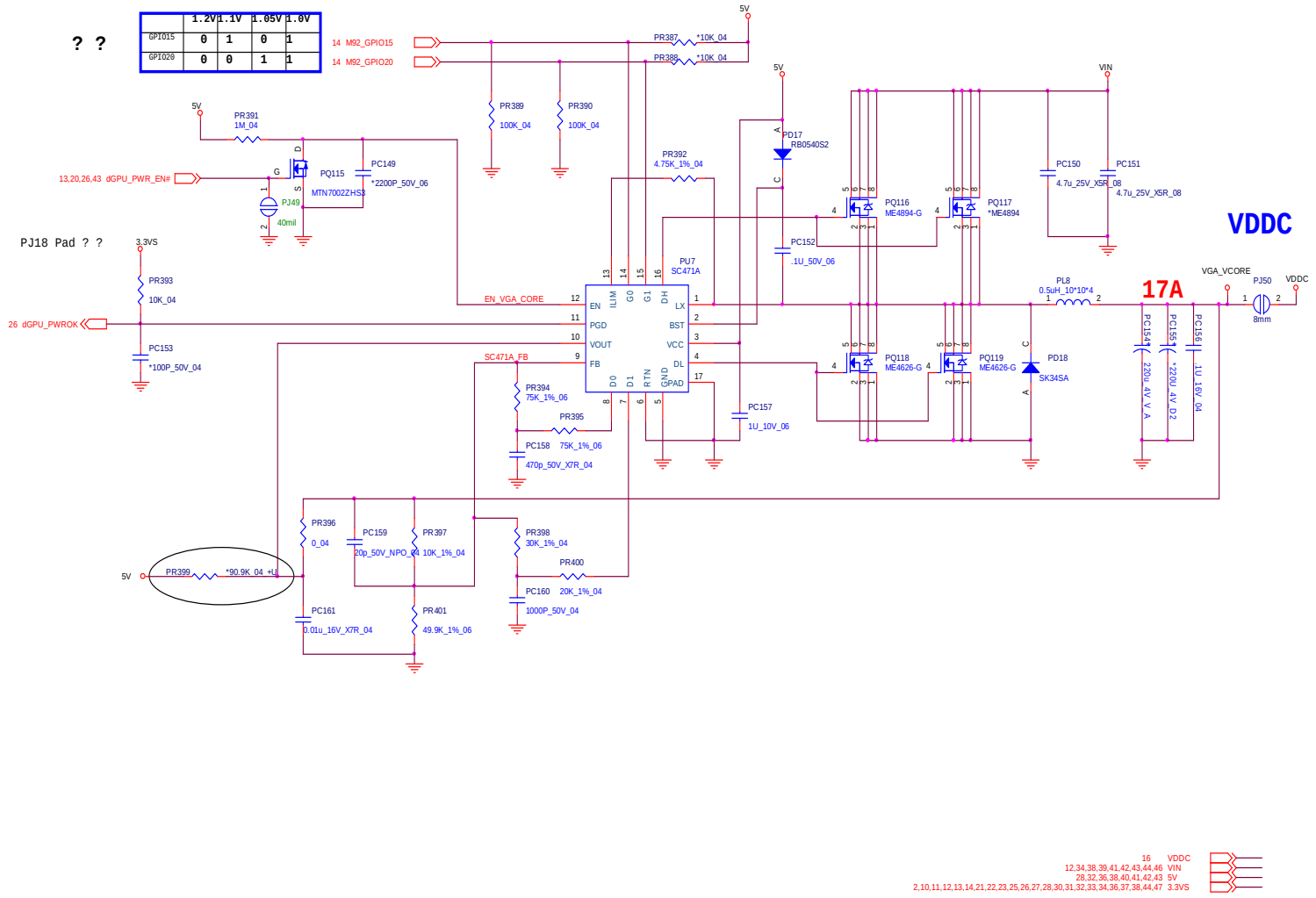
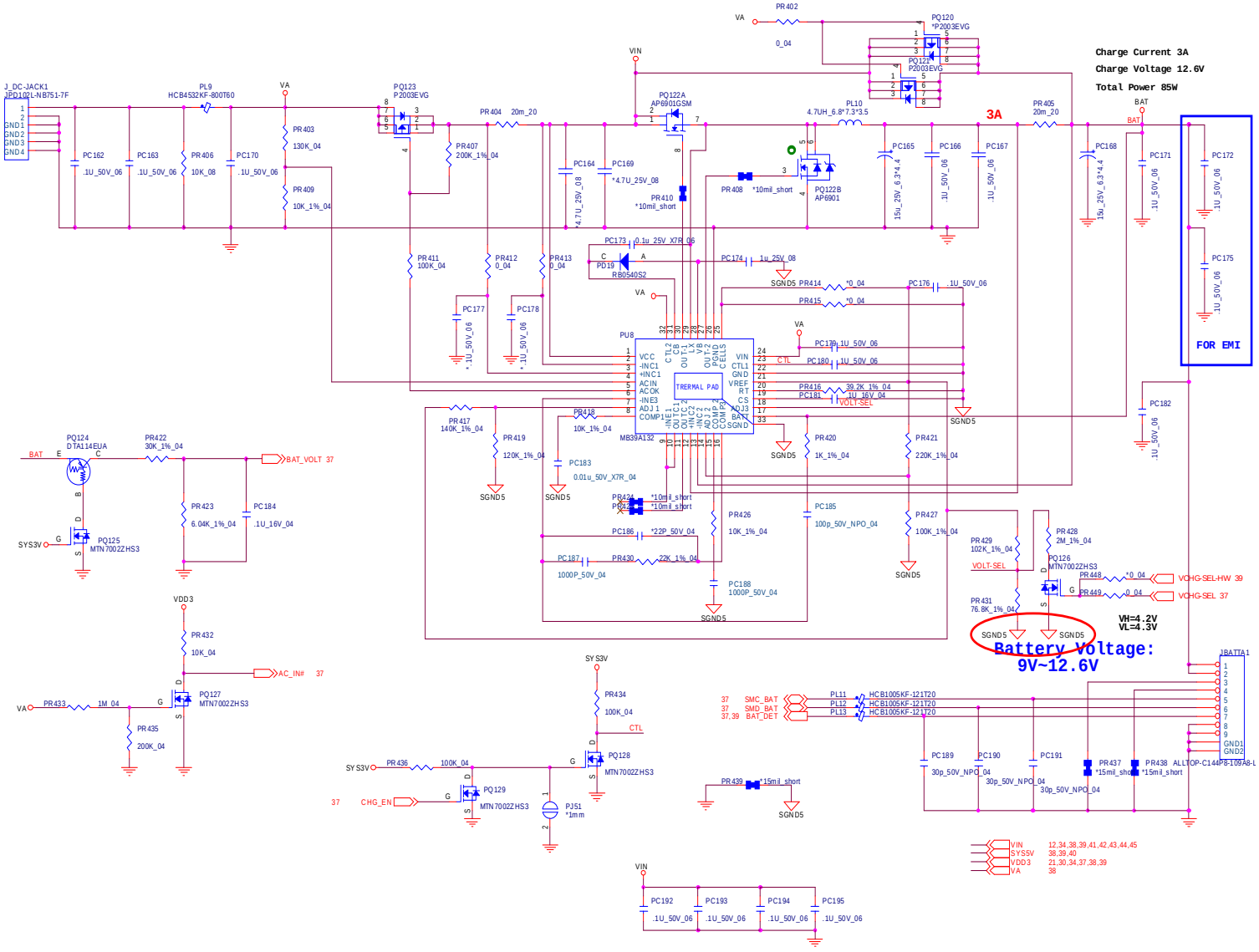
M92 VDDC

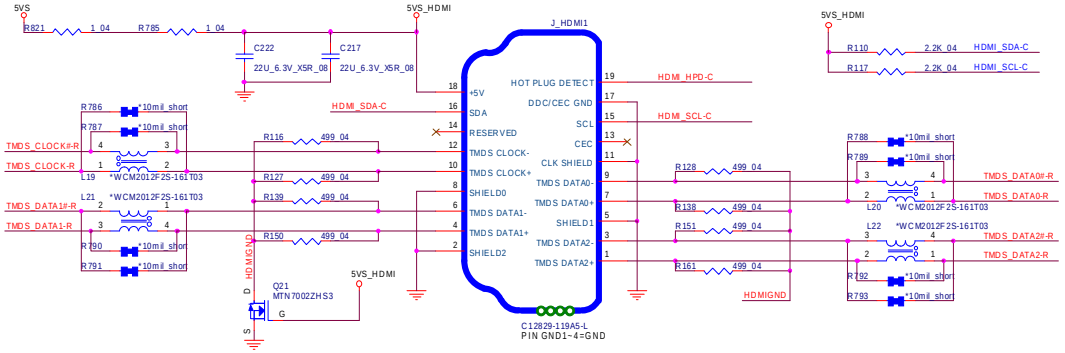


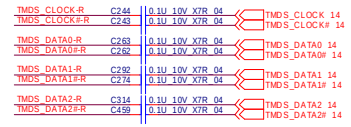
AC_IN, CHARGER

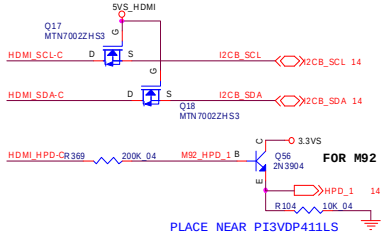


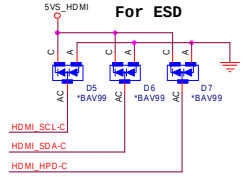
Sheet 46 of 56
AC_IN, CHARGER

HDMI









HDMI CONNECTOR

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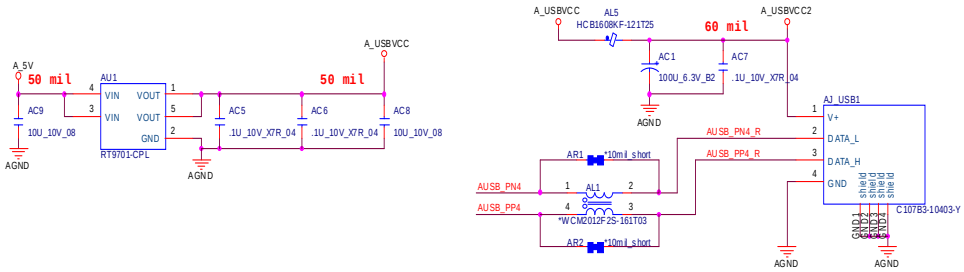
HDMI

2,10,11,12,13,14,21,22,23,25,26,27,28,30,31,32,33,34,36,37,38,44,45 3.3VS
2,12,21,27,28,32,34,36,38,40,44 5VS

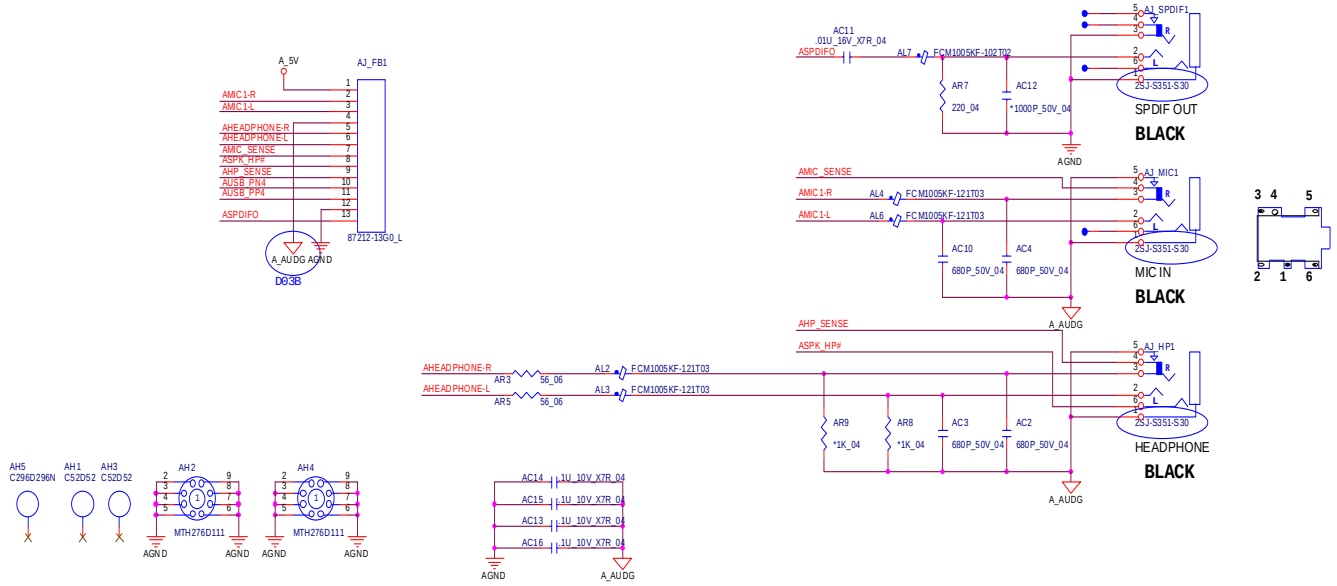
AUDIO BOARD

USB PORT



Sheet 48 of 56
AUDIO BOARD

AUDIO JACK



FINGER SENSOR BOARD TCS4X

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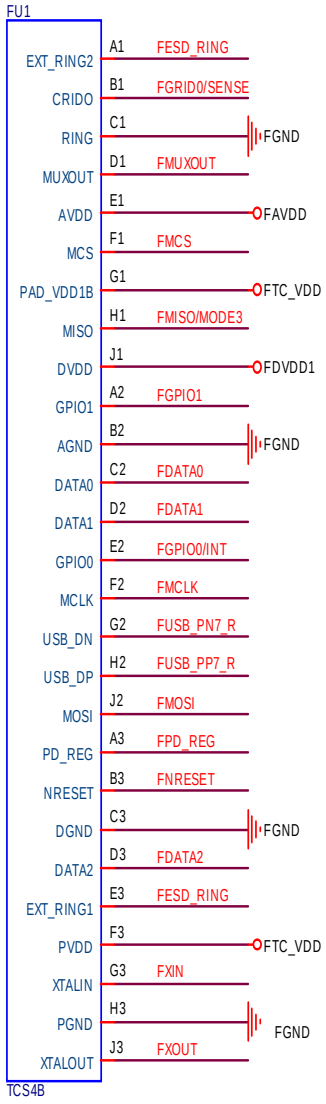
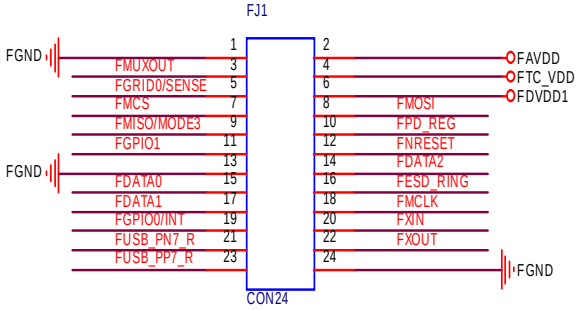
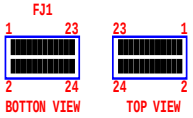
FINGER SENSOR BOARD TCS4X

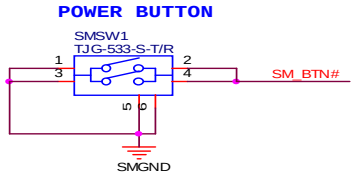


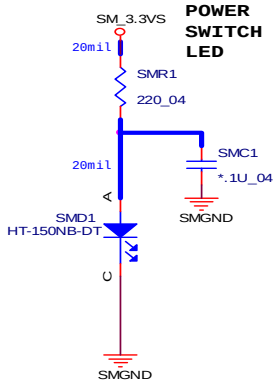


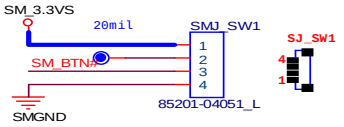


POWER SWITCH BOARD FOR M74

POWER SW & POWER LED FOR M74







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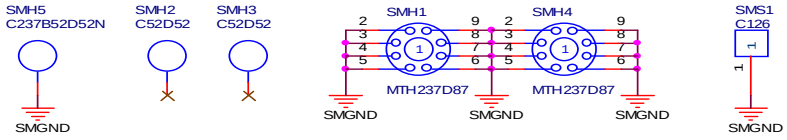
POWER SWITCH
BOARD FOR M74



FINGER BOARD FOR M74

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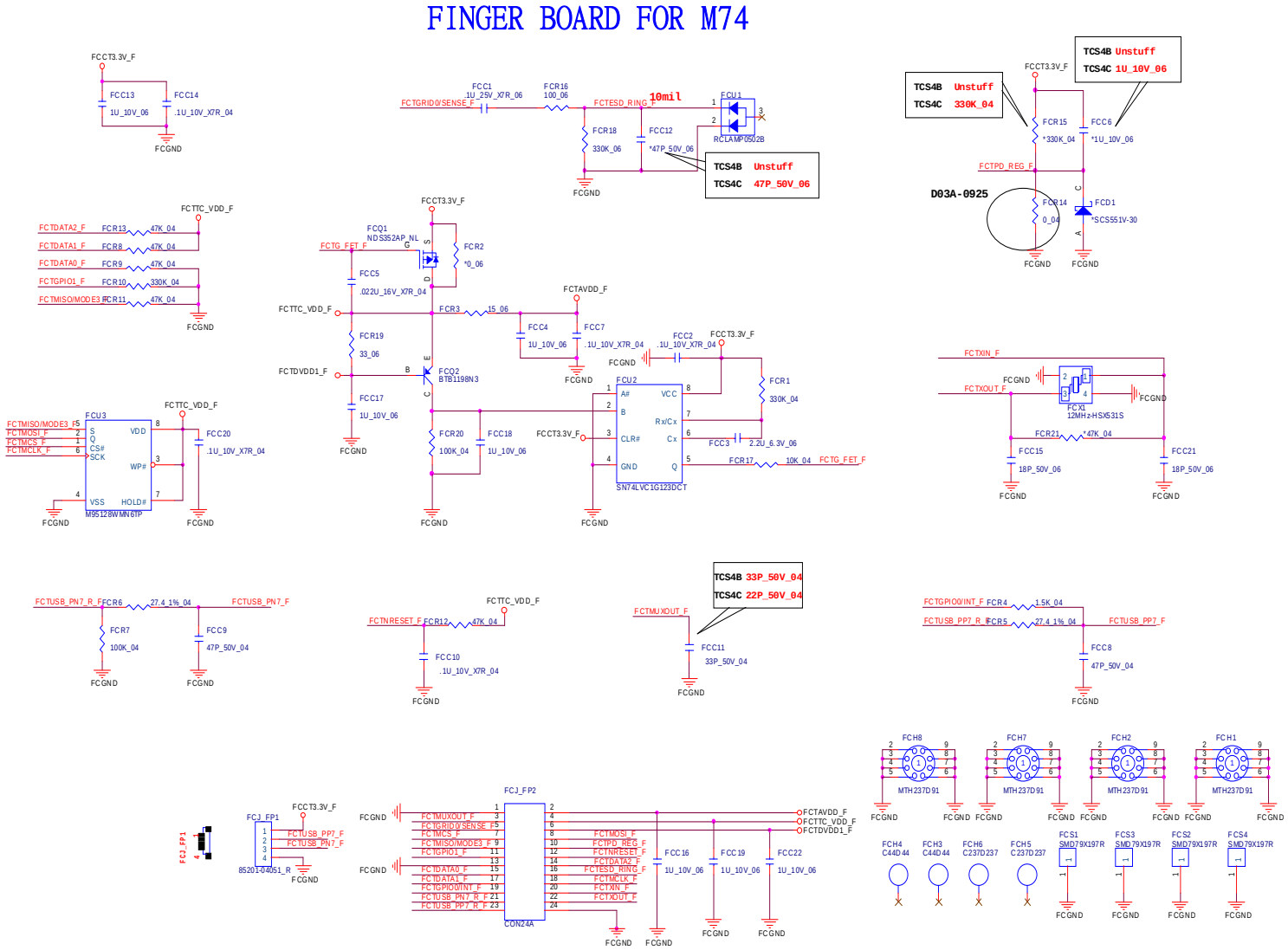
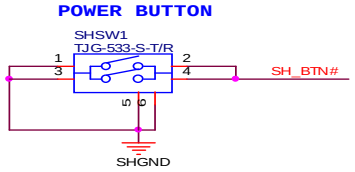
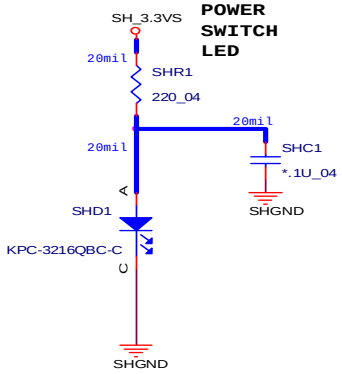
FINGER BOARD
FOR M74

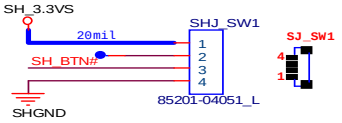


POWER SWITCH BOARD FOR M76

POWER SW & POWER LED FOR M76







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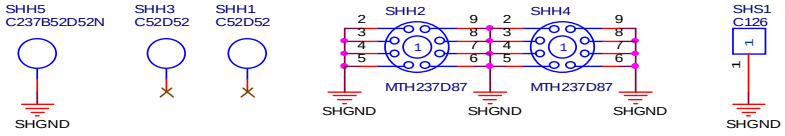
POWER SWITCH
BOARD FOR M76



EXTERNAL ODD BOARD FOR W76

ODD BOARD FOR W76

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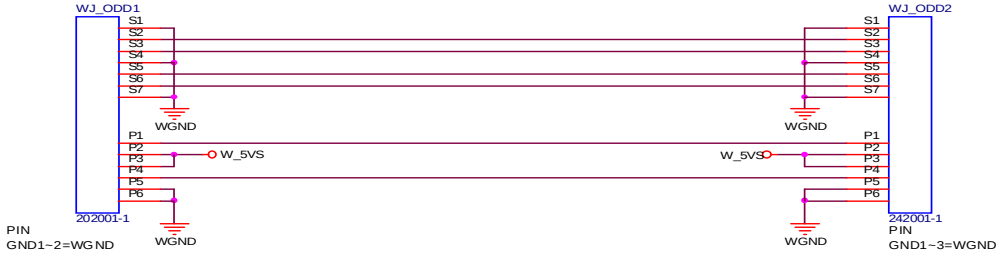
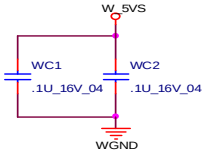
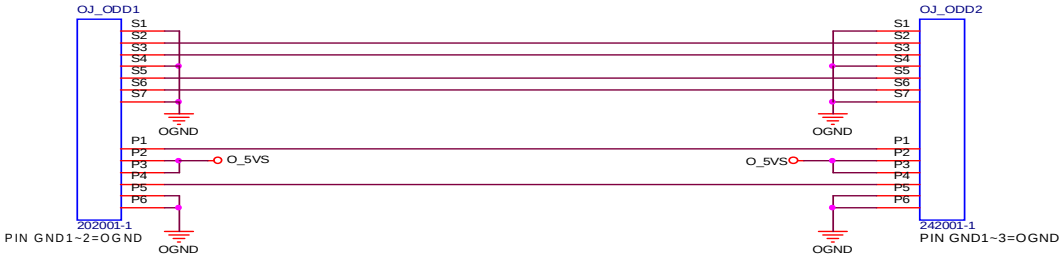
EXTERNAL ODD BOARD FOR W76

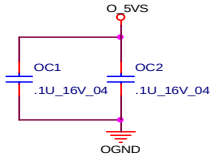




ODD BOARD FOR M760T

ODD BOARD





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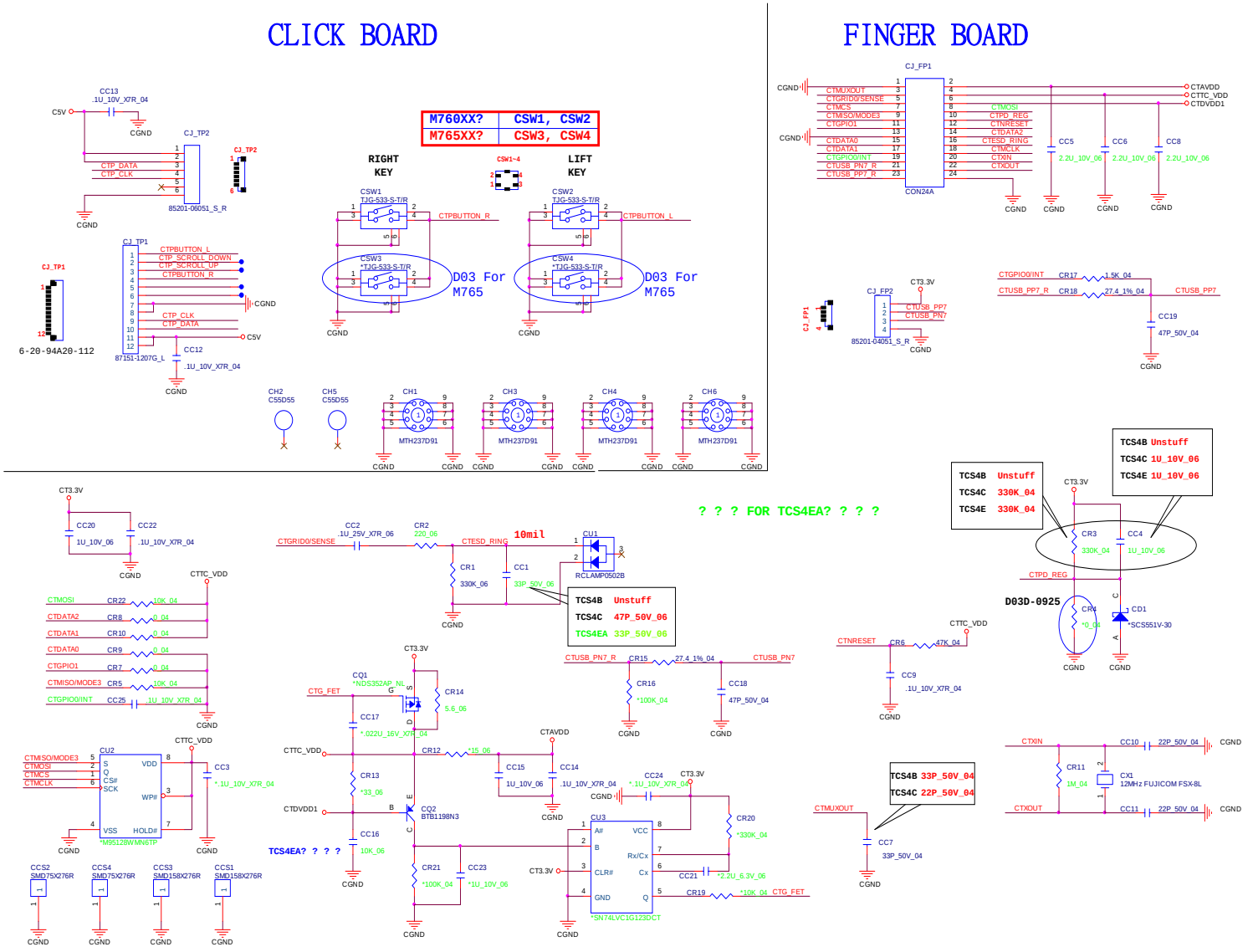
ODD BOARD FOR M760T

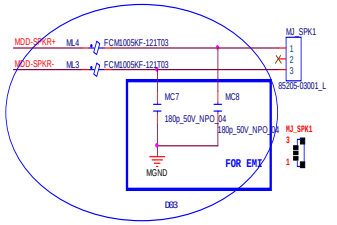
CLICK FINGER BOARD FOR M77

Sheet 55 of 56
CLICK FINGER
BOARD FOR M77

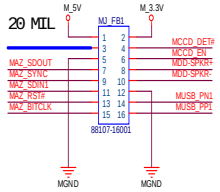


MULTI-FUNCTION BOARD

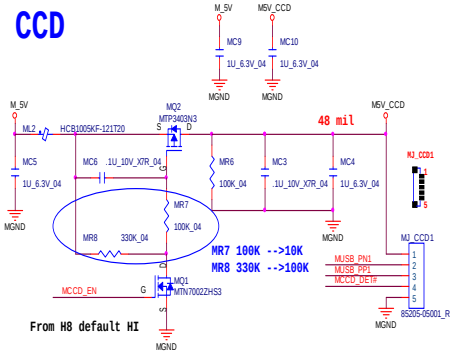
SPEAKER CONNECTOR



MULTI I/O CONN



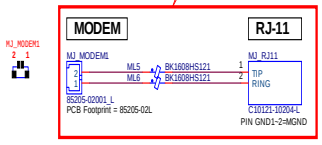
CCD



RJ-11

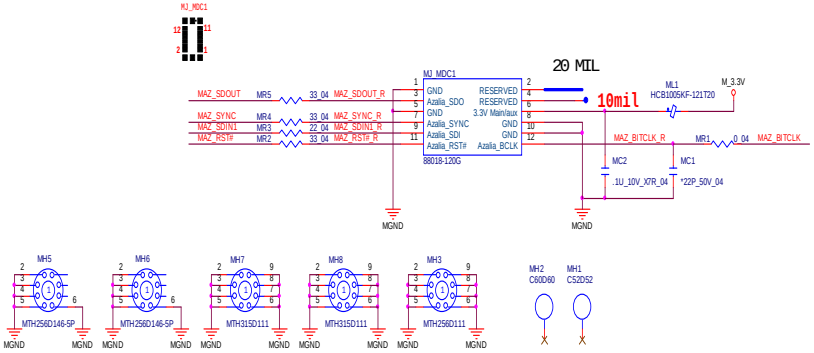
? ? ? ? ? ? ? ? ?

? ? 2.5mm ? ?



FOR M770CU/W760CU/W760C?
MODEM ON M/B ? ? ? ? ? ? MJ_MODEM1
ML5,ML6,MJ_RJ11,? ? ? ? ? ? ?

MDC MODULE



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MULTI-FUNCTION BOARD

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).

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:\> Flash.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.