



# PORTABLE NAVIGATION SERVICE MANUAL

## INFORMATION

If you have other questions about the Destinator Navigation Device, please contact your supplier or Technical Support:

**Support-Hotline**

**[www.destinatoreurope.com](http://www.destinatoreurope.com)**

For questions on Destinator products please visit our  
FAQ site or contact the Destinator Support Team.

Monday-Fridays : 09 : 00 am - 6 : 00 pm

Service Number refers page1-7.



**MODELS: LN700/LN705/LN710/LN715**



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# SECTION 1. GENERAL

## SAFETY PRECAUTIONS

### Electrostatically Sensitive Devices (ESD)



Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

**CAUTION : BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.**

8. Minimize bodily motions when handing unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).











### CAUTION. GRAPHIC SYMBOLS

	THE LIGHTNING FLASH WITH APOWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

## SPECIFICATIONS

ITEM	SPECIFICATION	REMARK
<b>OS</b>	Win CE 5.0	
<b>CPU</b>	Centrality Atlas2 ARM9 300 Mhz	
<b>MEMORY</b>	External SD Card LN700 : 256 MB LN705 : 512 MB LN710 : 1 GB LN715 : 2 GB	
<b>DISPLAY</b>	4 inch TFT LCD Resolution 320 X 240 Color 65,000 Backlight Touch Screen	LG Philips LCD CCFL (L-type) Analog resistive type
<b>AUDIO</b>	Mono, Internal Speaker	Max 1.5W
<b>GPS</b>	SiRF Star III, Internal Antenna	
<b>NAVI</b>	Full Map	Voice Guidance
<b>MAP</b>	Navtaq	
<b>POWER</b>	DC 10.5~16V	Vehicle Power Cigar-jack Input
<b>TEMPERATURE</b>	Operating : -10~60 °C Storing : -30~80 °C	
<b>Built-in BATTERY</b>	1000mAh, 3.7 V	
<b>INTERFACE</b>	Mini-USB Port External GPS Jack	USB 1.1
<b>Multimedia</b>	Electronic Picture Frame	BMP Files Compatible

## ACCESSORIES

 <p>Main Set</p>	 <p>(801) Quick Start Guide</p>	 <p>(825) USB Cable</p>	 <p>(826) SD Memory Card</p>	 <p>(827) Cigar Light Adapter</p>
 <p>(828) AC Adapter</p>	 <p>(829) Carring Case</p>	 <p>(830) Suction-Mount Cradle</p>	 <p>(835) Installation CD</p>	 <p>(836) GPS aerial (Optional)</p>

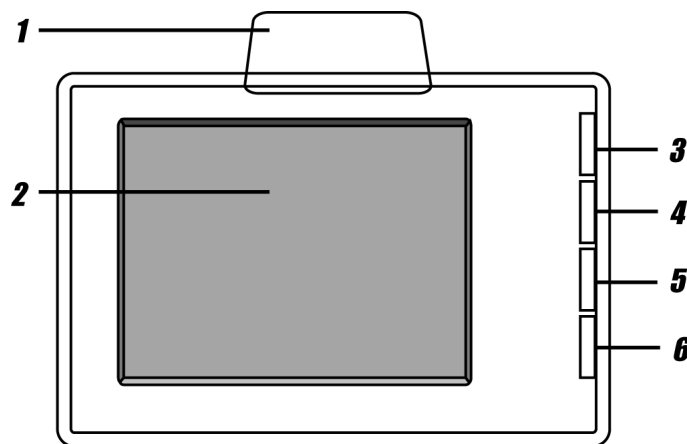
Contents may be changed without notices.

### SD memory card

SD Memory Card in data terminal equipment may have little reserve capacity due to a map data. In this case, separate SD Memory Card should be purchased.

## ❑ NAME OF EACH PART

### • Front panel



#### 1. GPS Antenna

Receive the satellite signals.

#### 2. LCD

Screen display according to menu.

#### 3. Power On · / Off - button

(Press for about 0.5 second)

#### 4. Volume Up

Sound is louder.

#### 5. Volume Down

Sound is softer.

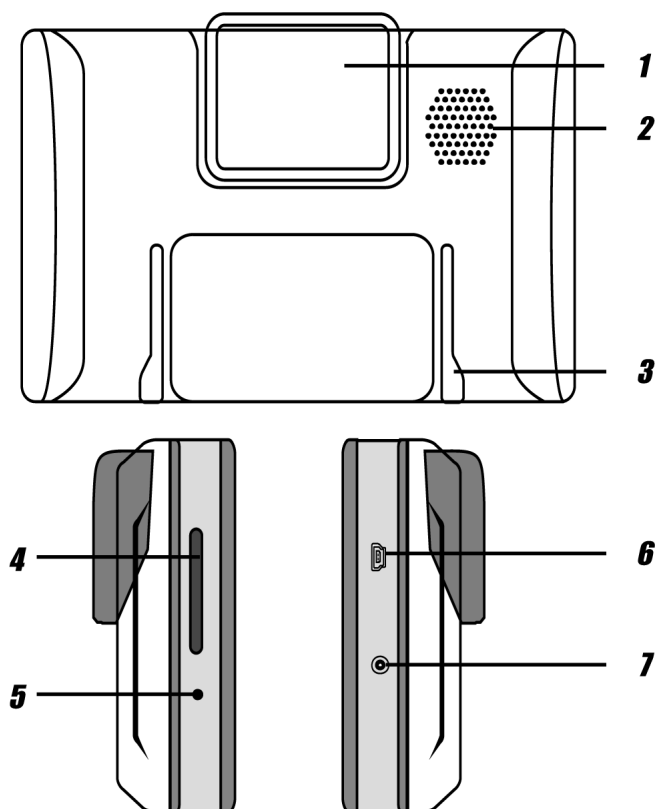
#### 6. SRC (Source) button

Move to the main menu screen/move to the previous screen.



To activate the menu function through LCD screen, press the screen with finger as a finger touch mode.

## • Rear / Side panel



### 1. GPS Antenna

Receive the satellite signals.

### 2. Speaker

Possible to get a voice guidance service.

### 3. Docking connector

### 4. Memory Card Slot

Save the latest map.

### 5. Reset button

Re-start the program in data terminal equipment.

### 6. USB connector

### 7. Power supply connector



If deleting or altering the map data in SD Memory Card randomly, it may cause a trouble in the navigation function.

## **SUPPORT-HOTLINE**

If you have other questions about the Navigation Device, please contact your supplier or Technical Support:

**[www.lge.com/support/software.jsp](http://www.lge.com/support/software.jsp)**

For questions on products please visit our  
site or contact the Support Team.

Monday-Fridays : 09 : 00 am - 6 : 00 pm

<b>LG Subsidiary</b>	<b>Country</b>	<b>Service Number</b>
LG Electronics ESPANA S.A.	SPAIN	902 500 234
LG Electronics U.K. Ltd	U.K. / IRELAND	0870 873 5454
LG Electronics France	FRANCE	0825-826-822 0825-825-592
LG Electronics Deutschland GmbH	GERMANY	01805 4737 84
LG Electronics Italia S.p.A	ITALY	39 199600099
LG Electronics Hellas S.A	GREECE	+30-210-4800-564/8 801 11 200 900
LG Electronics Benelux B.V	BELGIUM LUXEMBOURG Netherlands	070-233-557 32-70-233-557 0900-543-5454
LG ELECTRONICS MAGYAR KFT	HUNGARY Bulgaria	36-06-40-545454 +359-070-1-5454
LG Electronics Polska Sp. z.o.o	POLAND	801 54 54 54
LG Electronics Portugal, S,A	PORTUGAL	808-78-5454
LG Electronics Nordic AB	SWEDEN DENMARK FINLAND NORWAY	0771 41 4379 8088 5758 0800 116 587 800 18 740
Austria	AUSTRIA	420 810 555 810
RUMANIA	RUMANIA	40 31 228 3542
CZECH REPUBLIC	CZECH SLOVAKIA	420 810 555 810 421 850 111 154



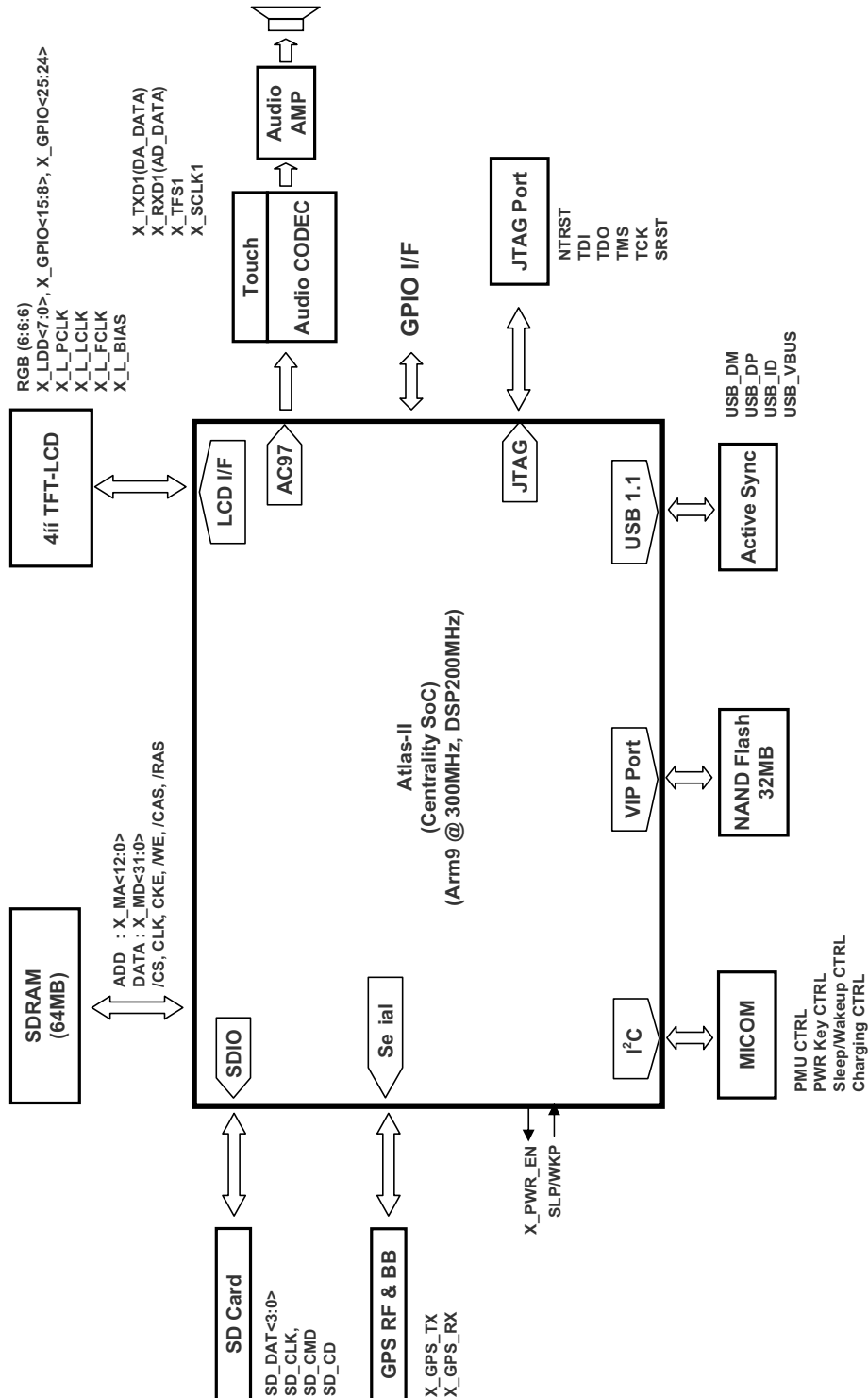
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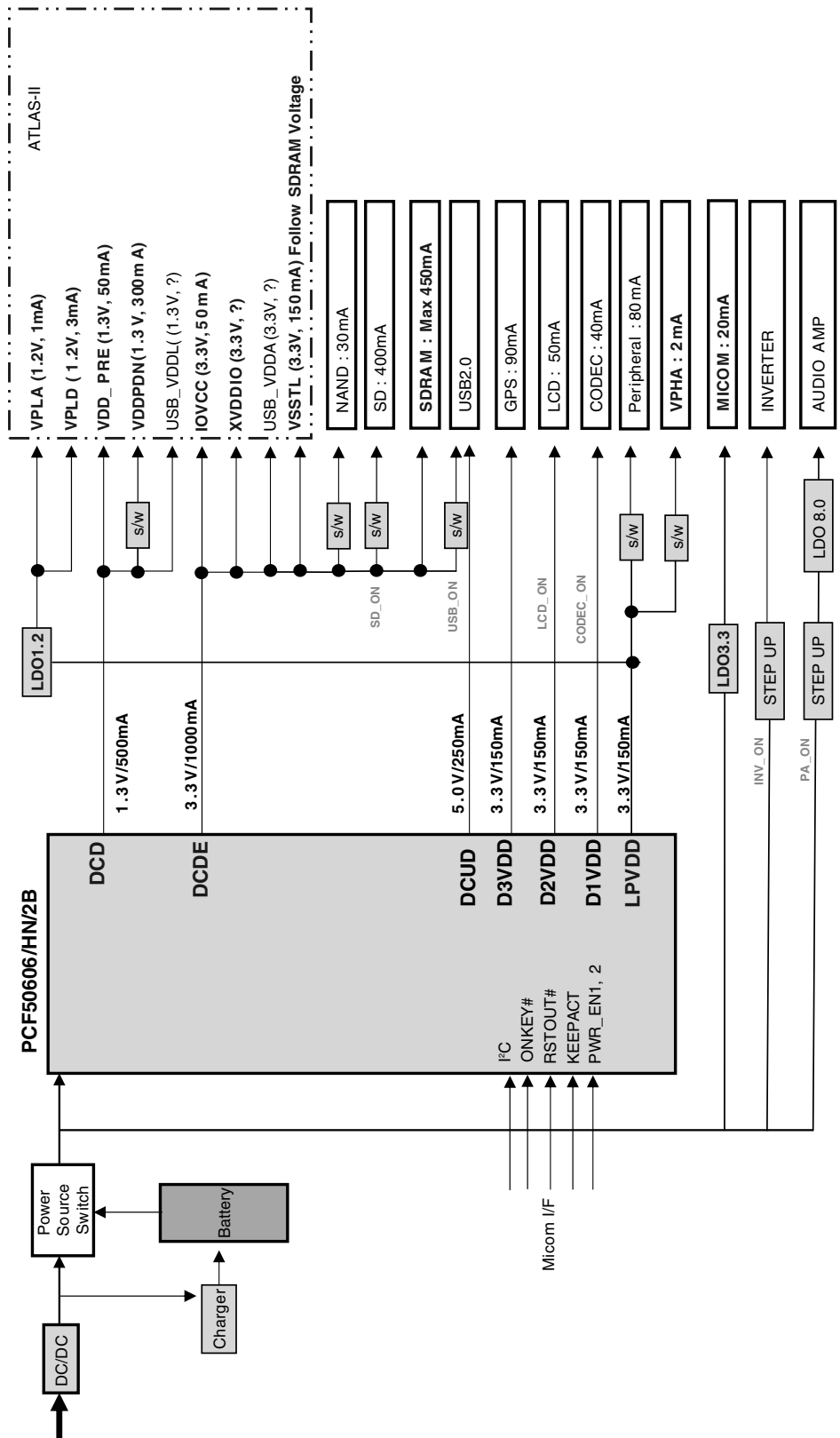
# SECTION 2. ELECTRICAL SECTION

## ■ BLOCK DIAGRAM

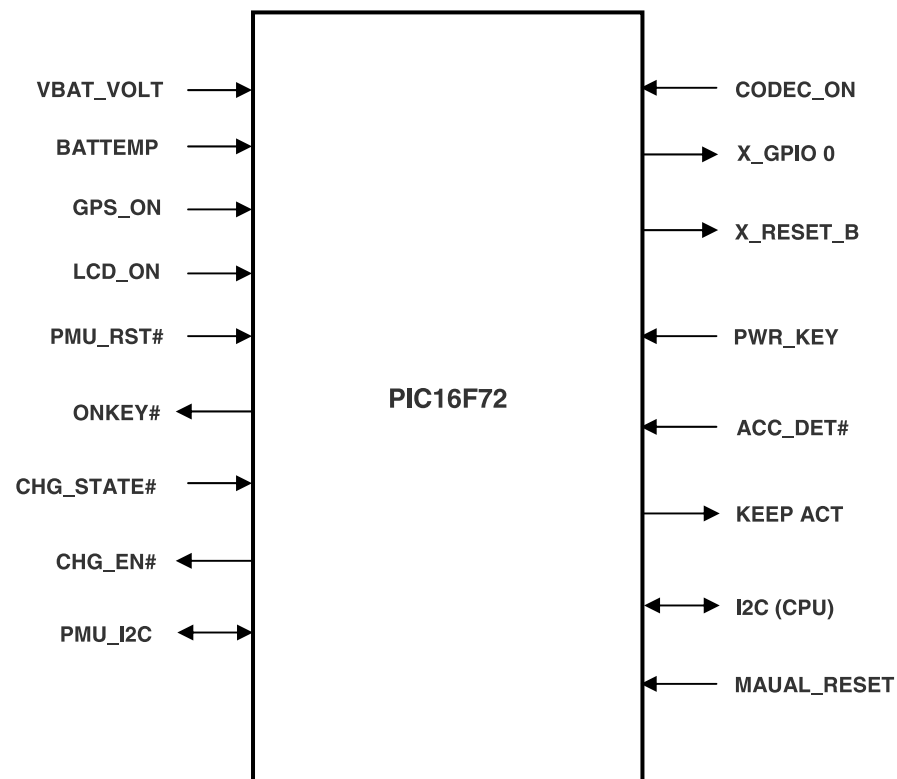
### • CORE BLOCK DIAGRAM



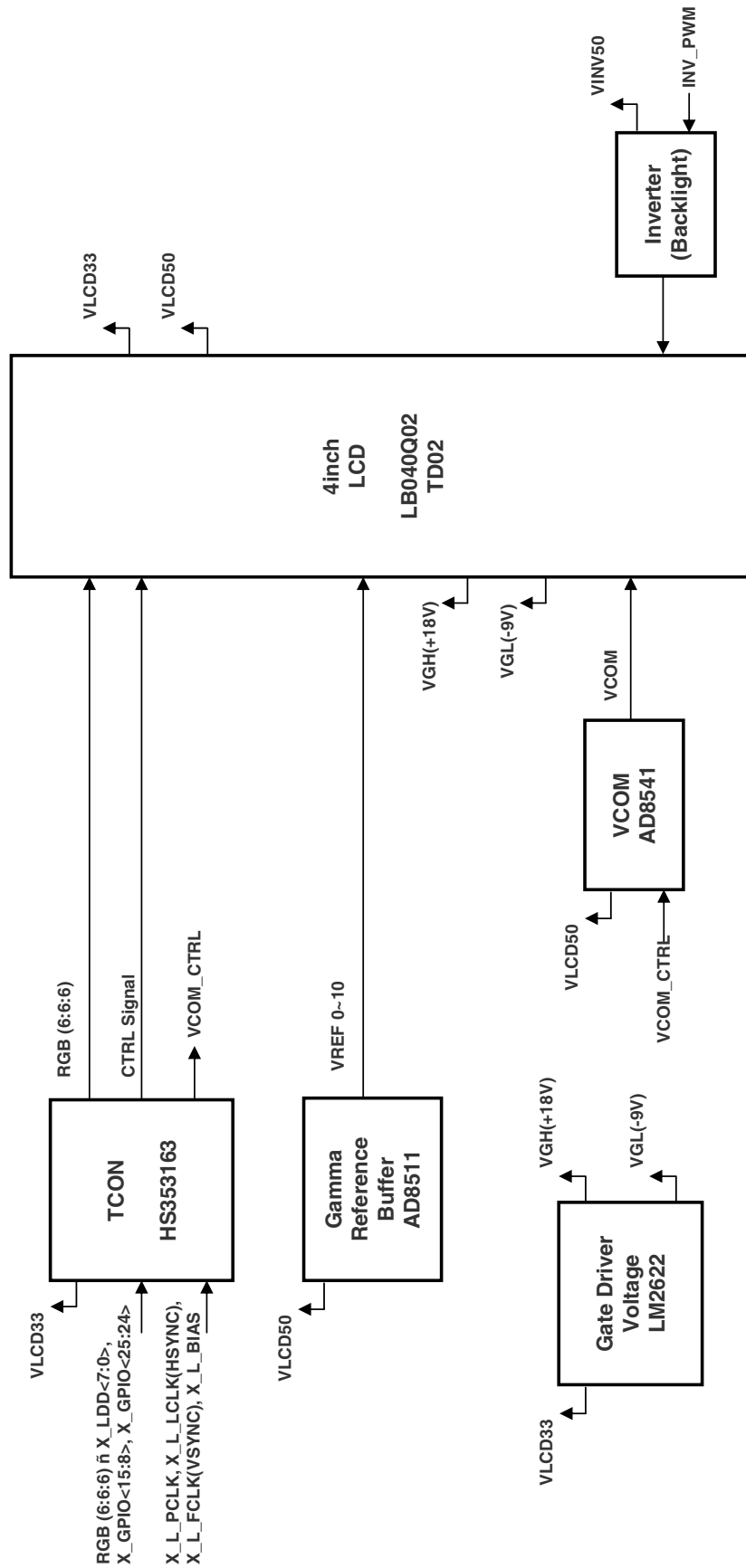
• POWER BLOCK DIAGRAM



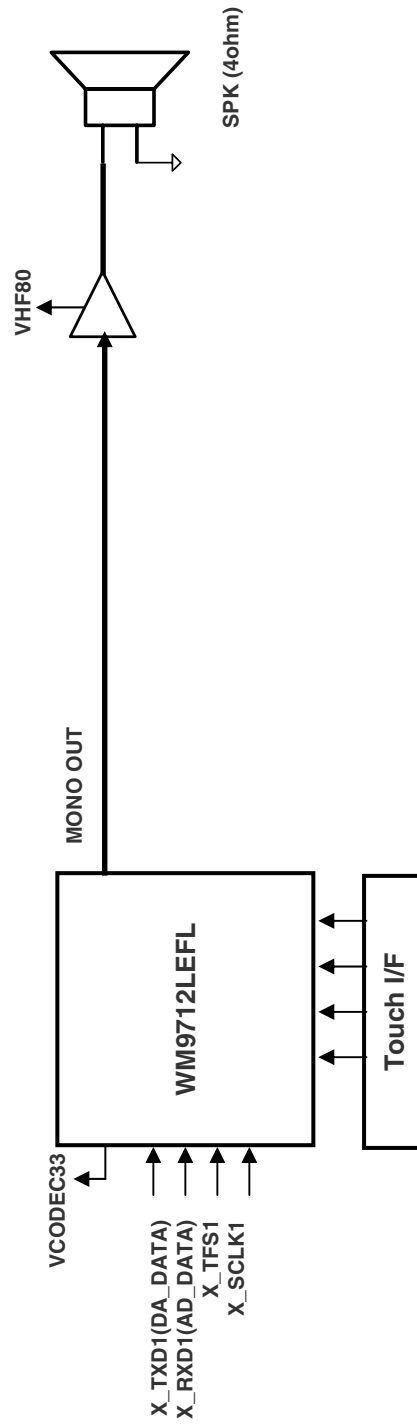
• MICOM BLOCK DIAGRAM



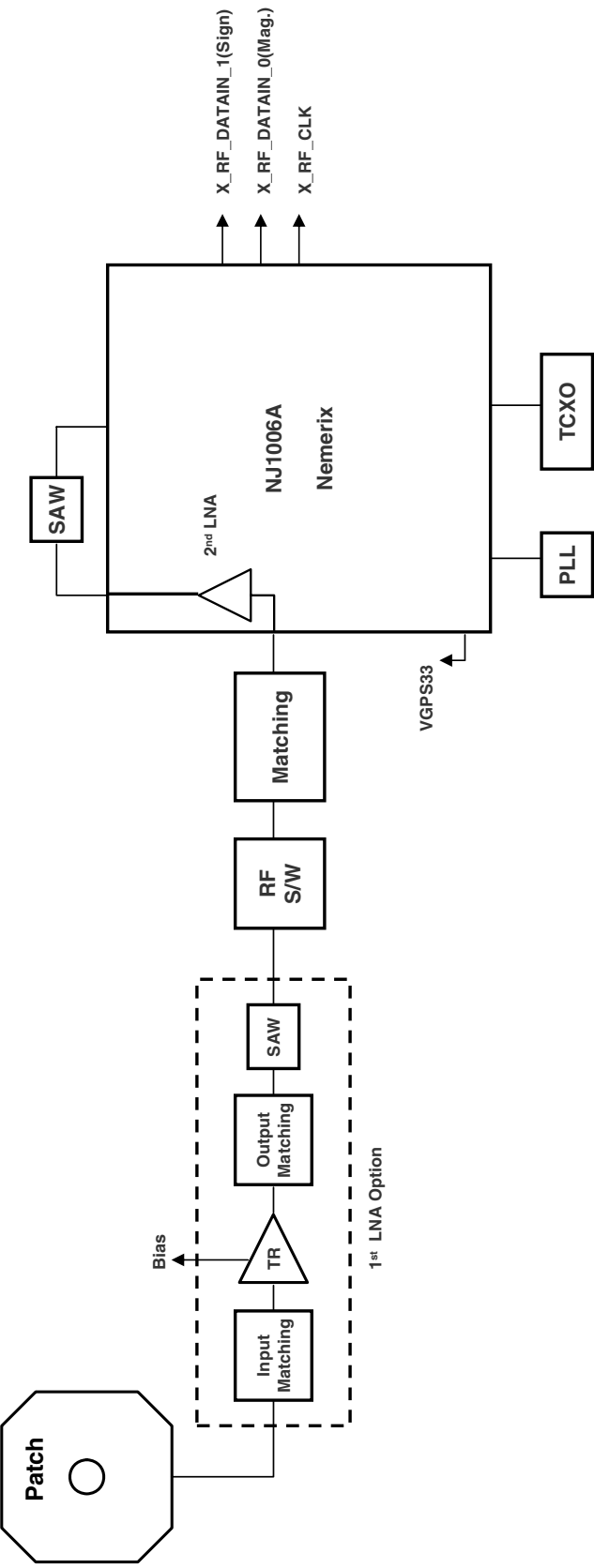
## • LCD BLOCK DIAGRAM



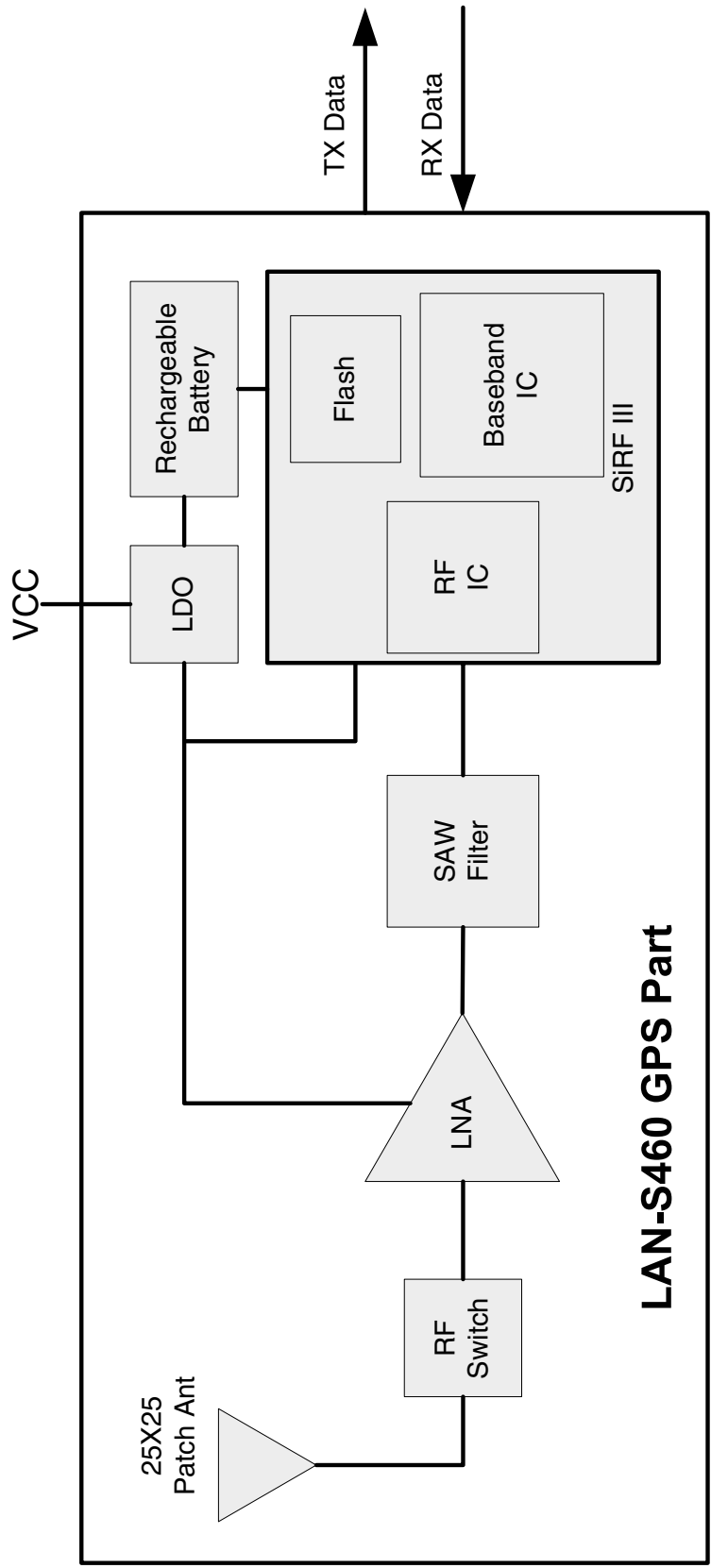
- **AUDIO BLOCK DIAGRAM**



• GPS BLOCK DIAGRAM



• **GPS\_2 BLOCK DIAGRAM**

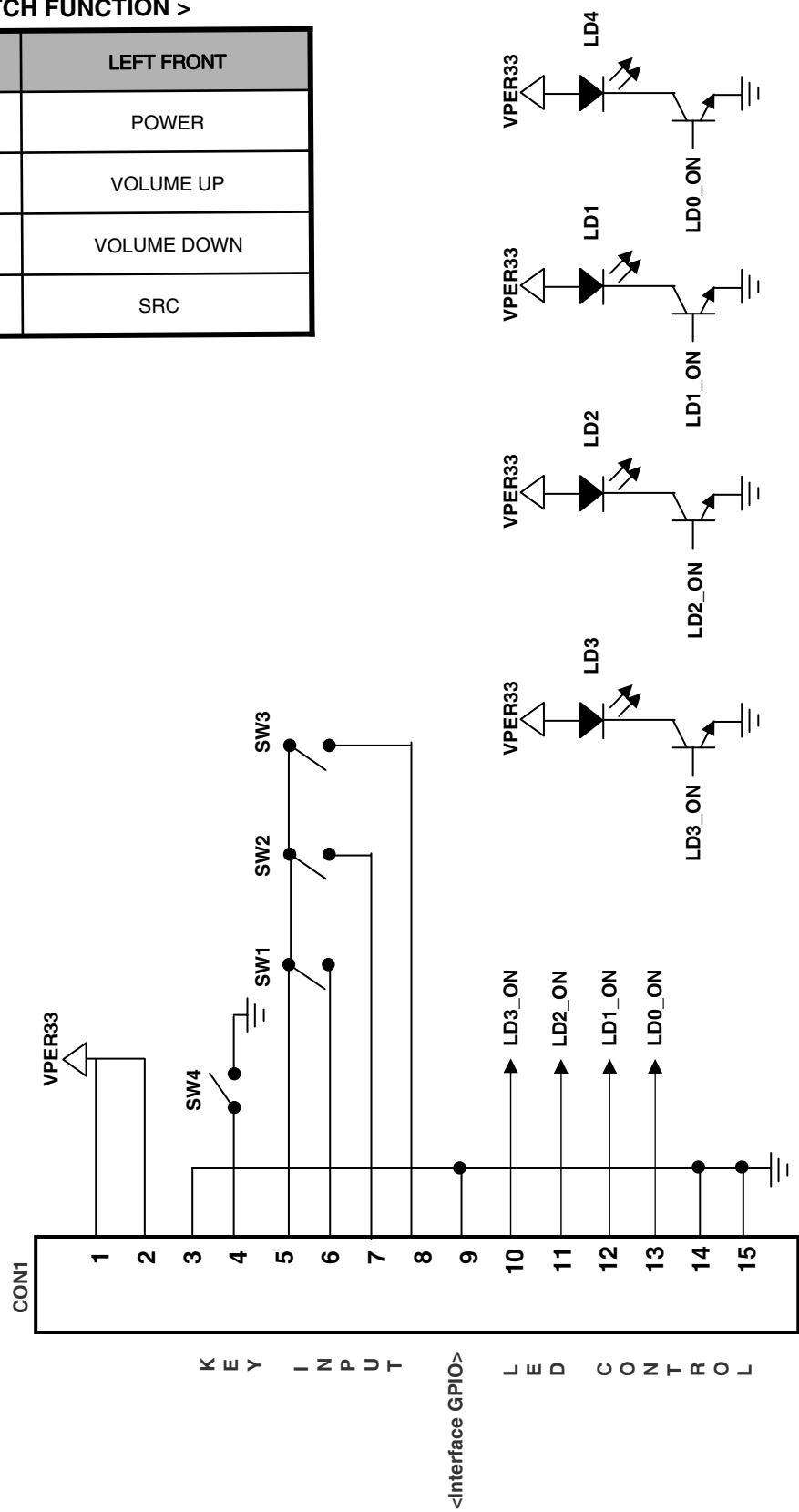




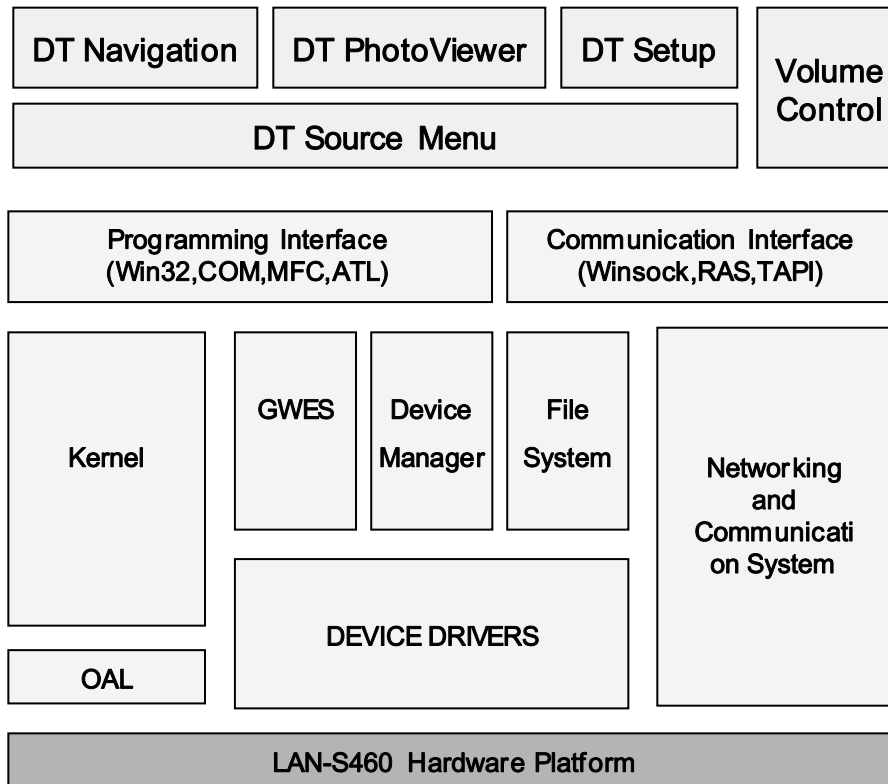
• INTERFACE BLOCK DIAGRAM

< SWITCH FUNCTION >

LOC.	LEFT FRONT
SW4	POWER
SW1	VOLUME UP
SW2	VOLUME DOWN
SW3	SRC



## • SW BLOCK DIAGRAM



OAL : OEM Adaptation Layer  
 GWES : Graphics, Windowing and  
           Event Sub system  
 COM : Component Object Model  
 MFC : Microsoft Foundation Class  
 ATL : Active Template Library  
 RAS : Remote Access Sever  
 TAPI : Telephony Application Program Interface

# MEMO

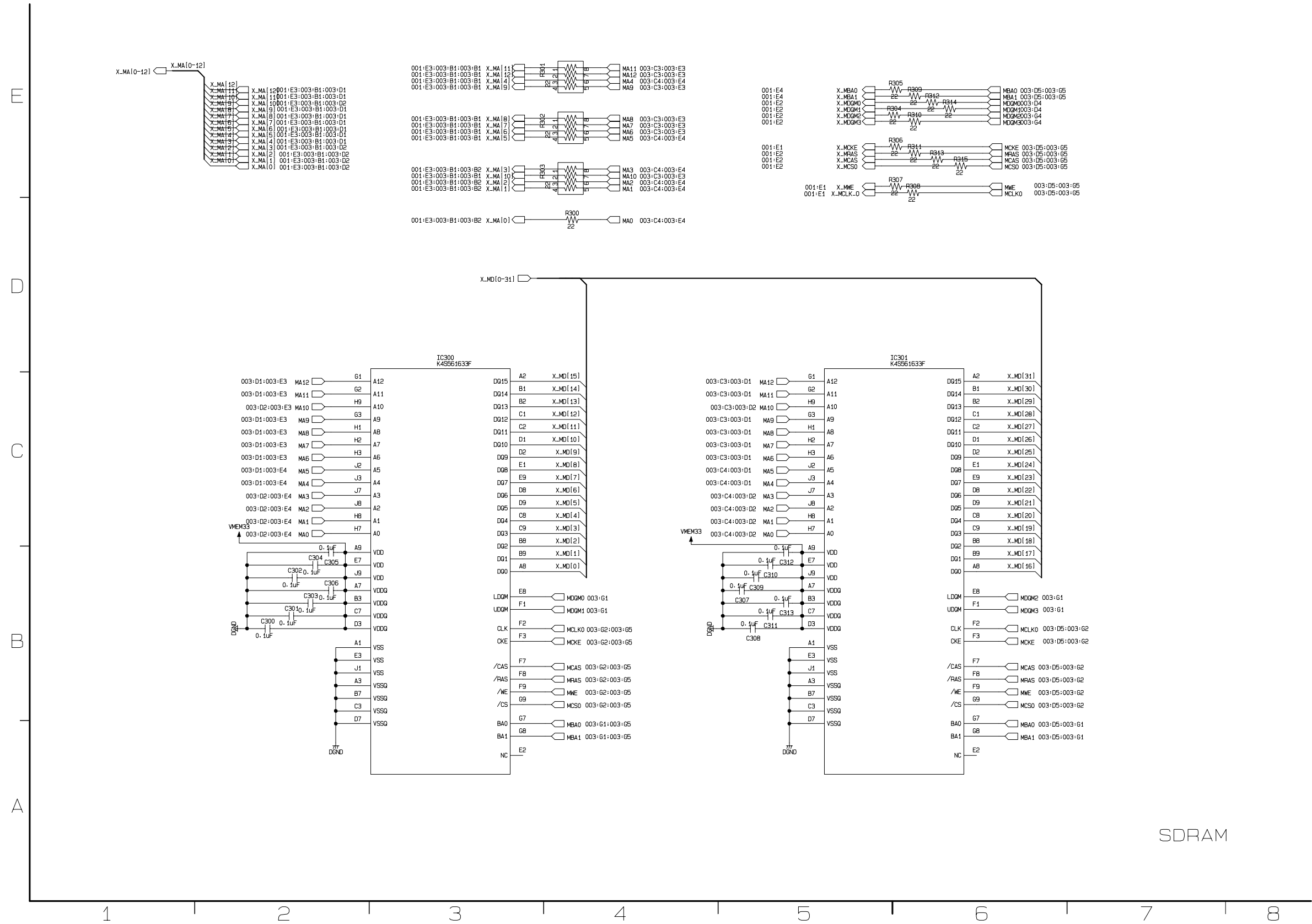
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- **CPU I/O SCHEMATIC DIAGRAM**



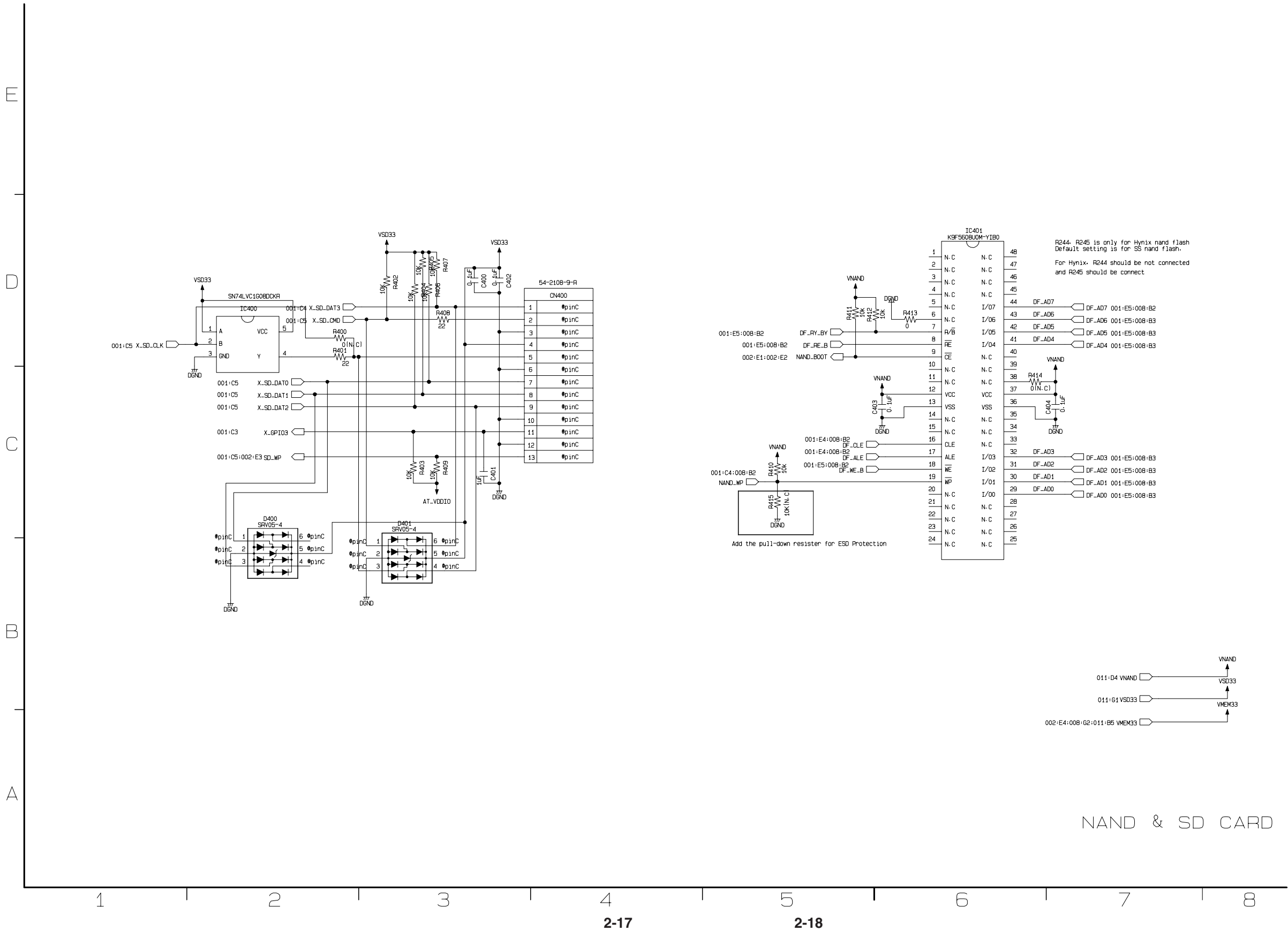


- **SDRAM SCHEMATIC DIAGRAM**

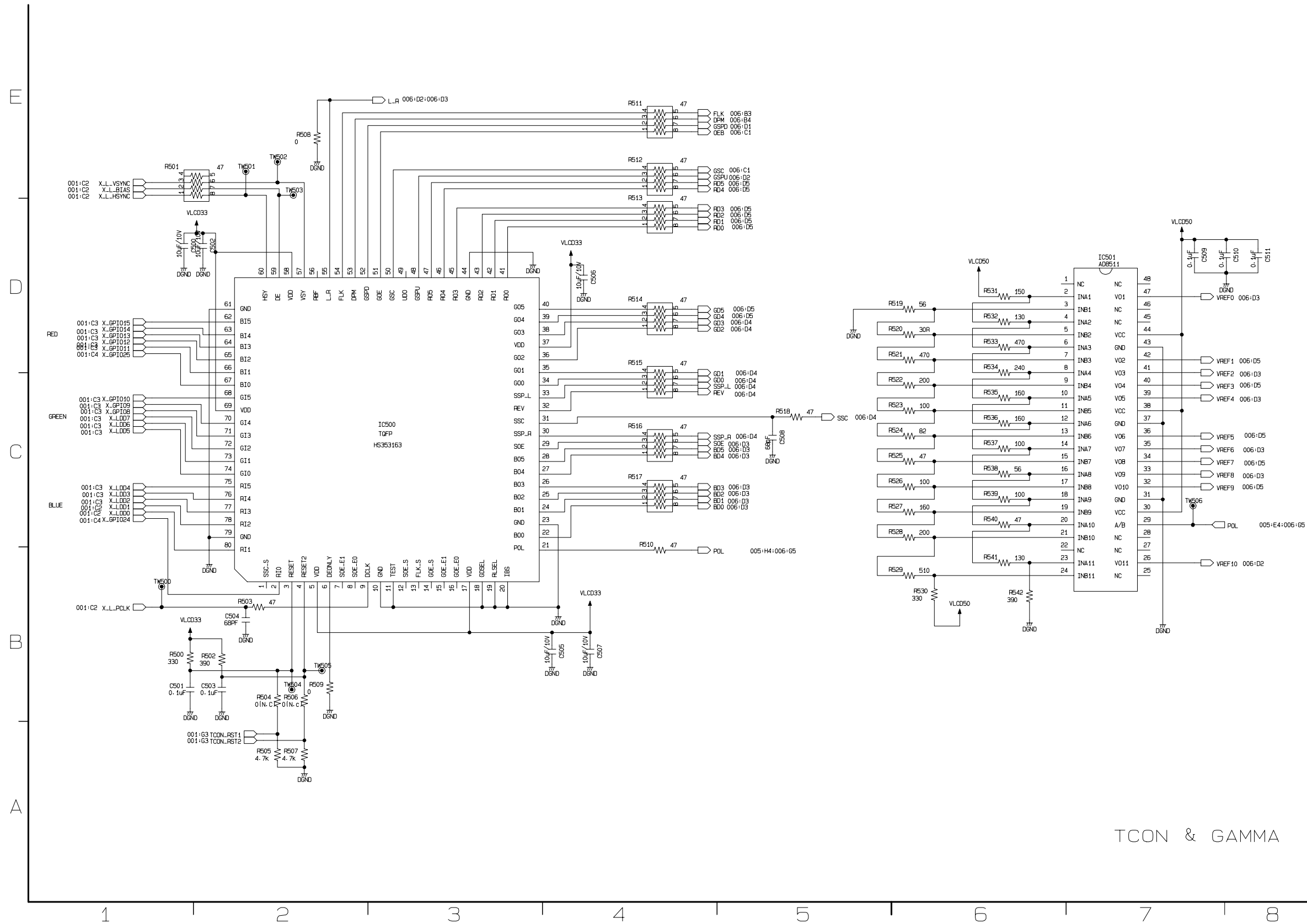


SDRAM

• NAND FLASH & SD CARD SCHEMATIC DIAGRAM

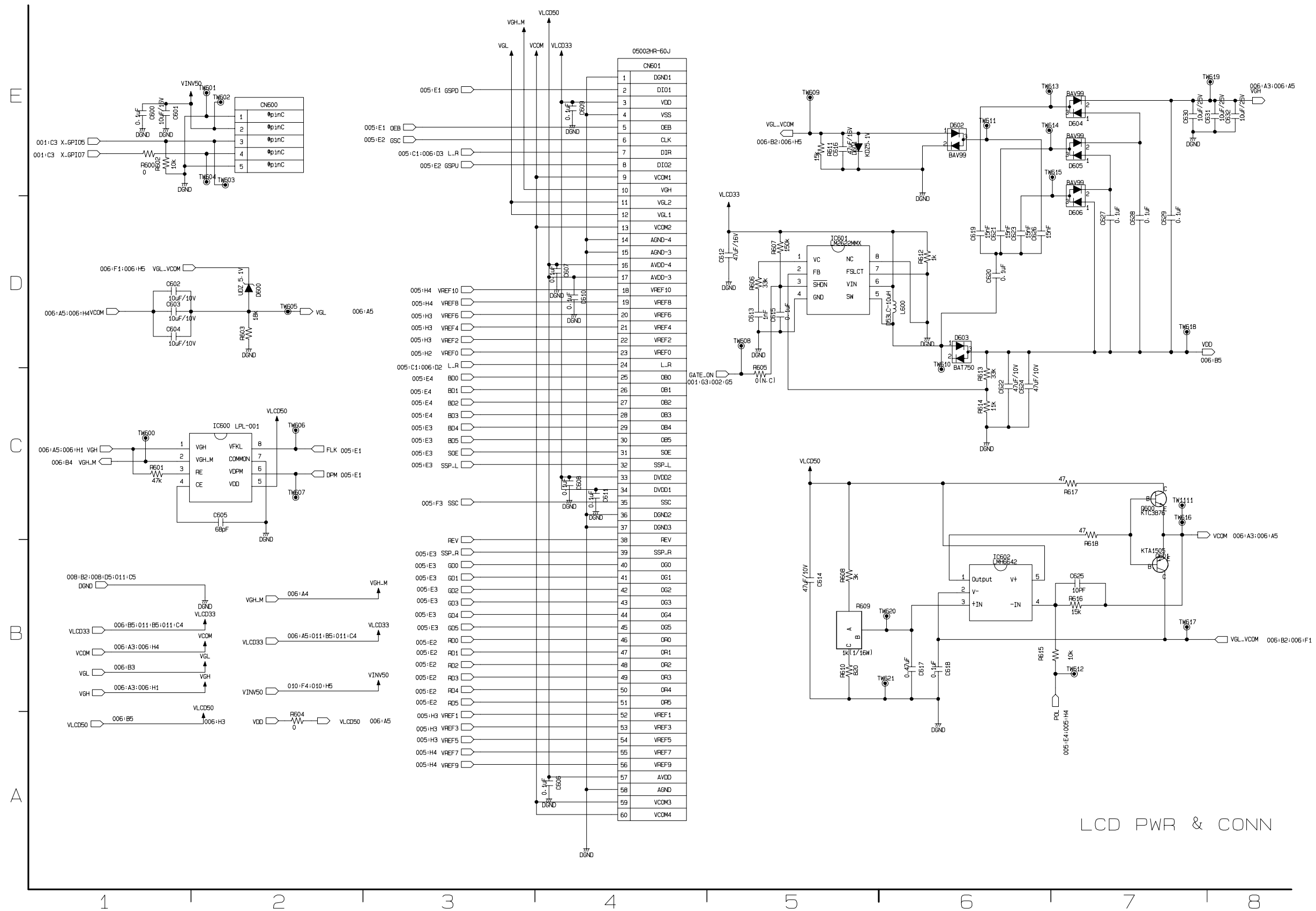


- **TCON & GAMMA SCHEMATIC DIAGRAM**



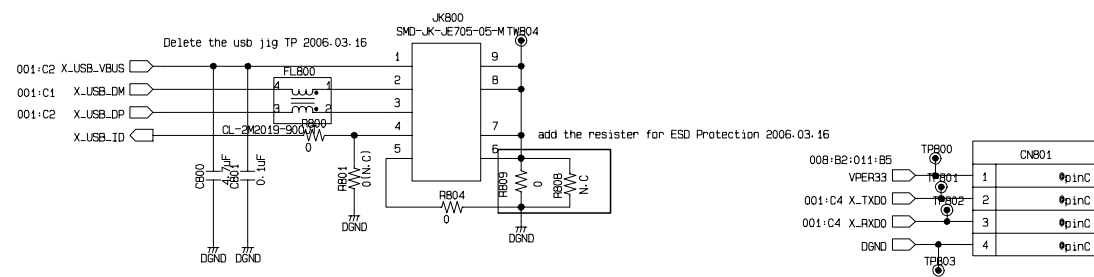
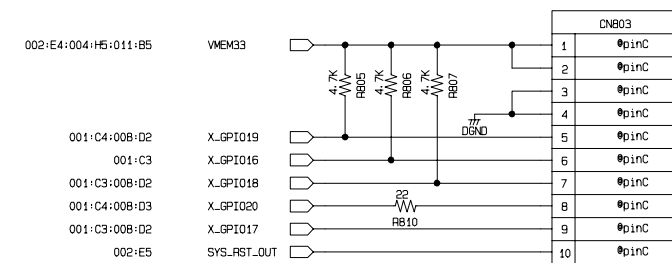
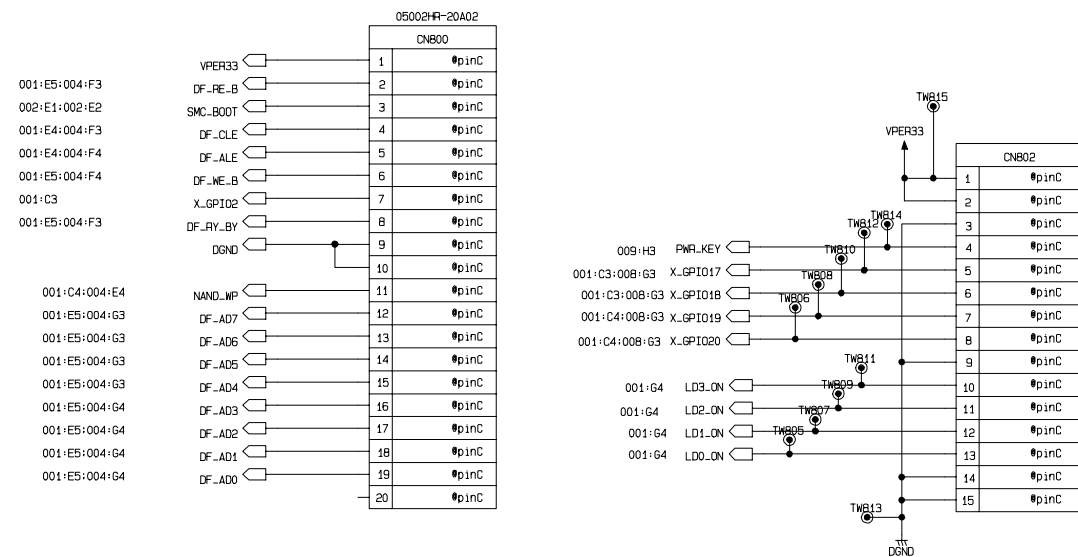


- **LCD PWR & CONN SCHEMATIC DIAGRAM**



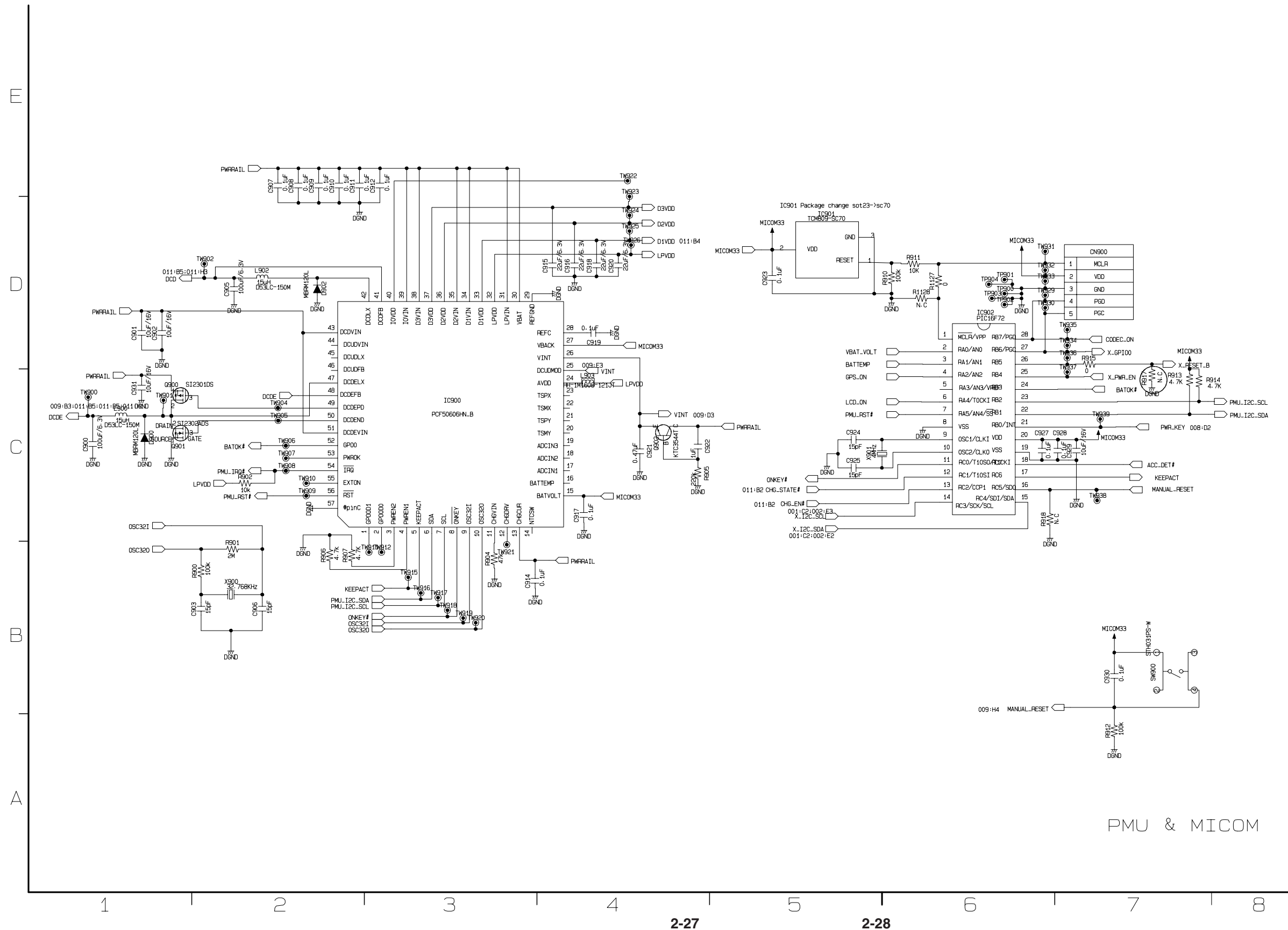


- **CONNECTOR SCHEMATIC DIAGRAM**

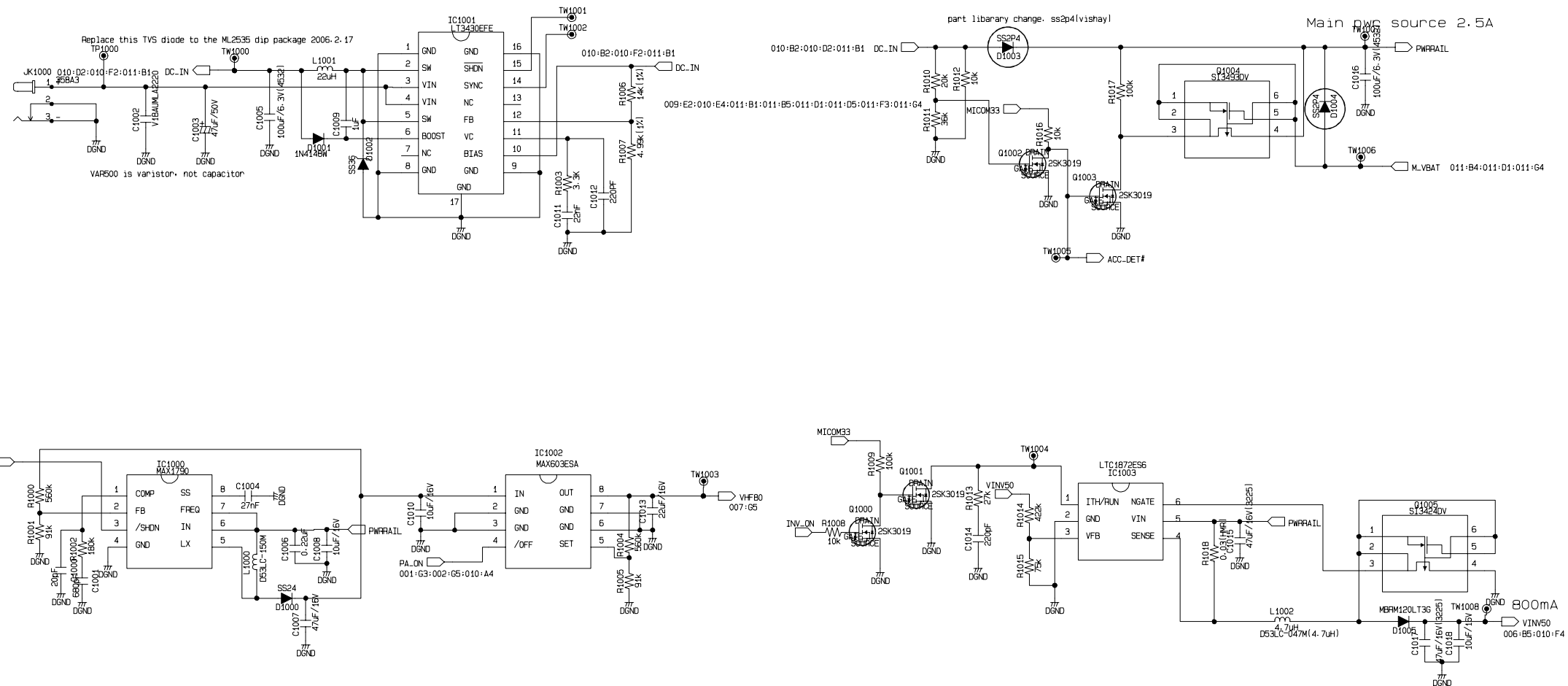


CONNECTOR

- **PMU & MICOM SCHEMATIC DIAGRAM**

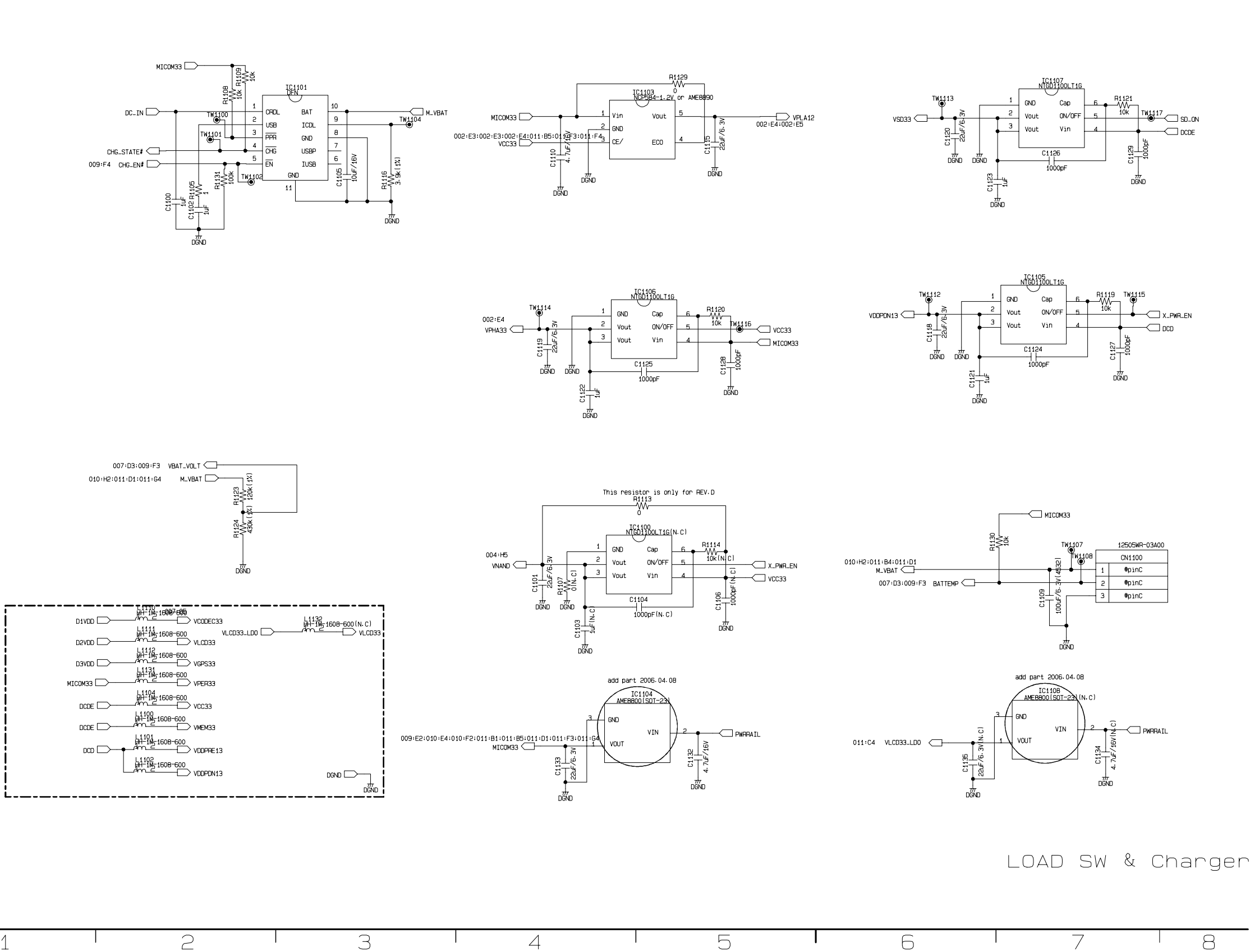


- **PWR RAIL & BOOST SCHEMATIC DIAGRAM**



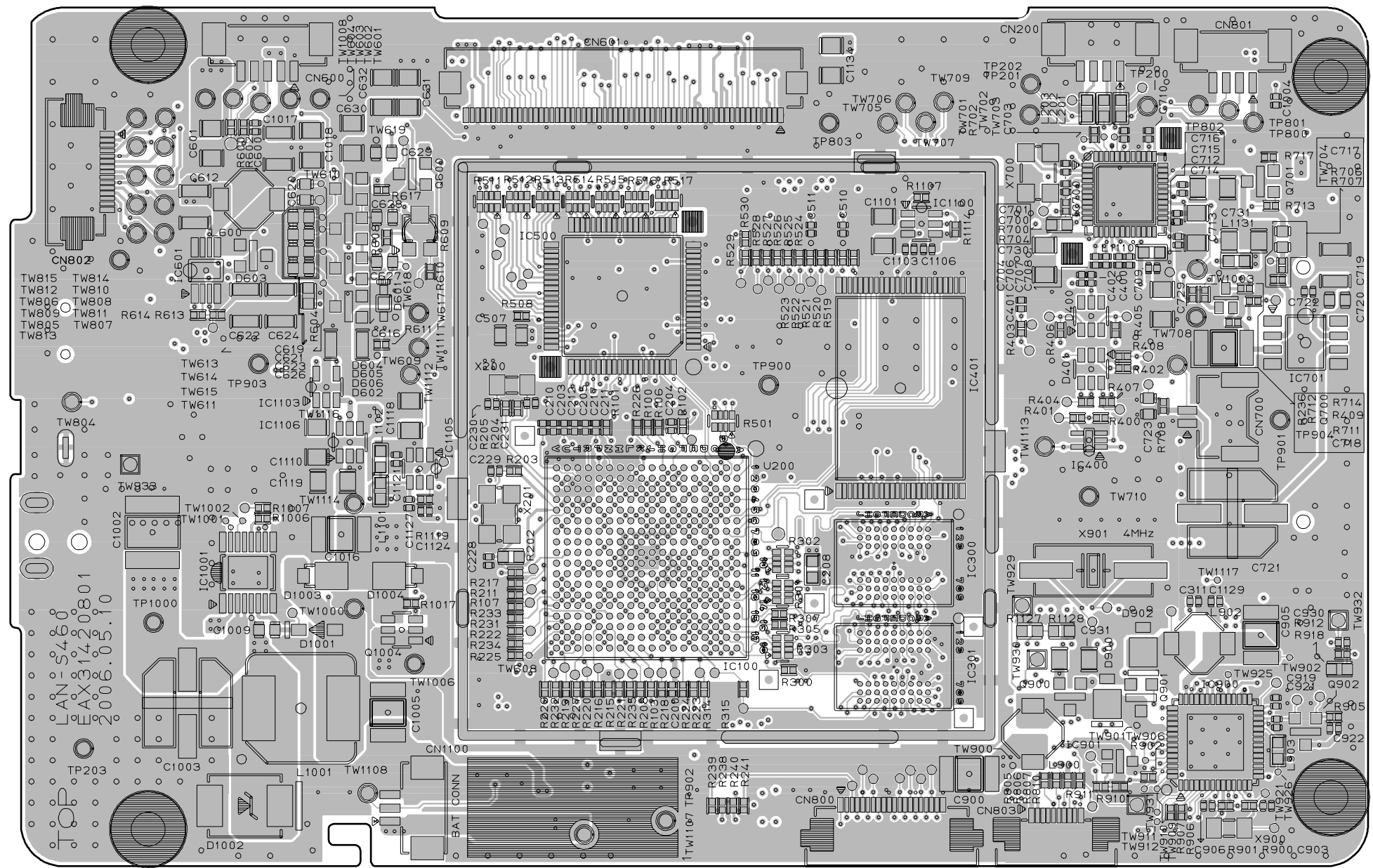
## PWR RAIL & BOOST

• LOAD SWITCH & CHARGER SCHEMATIC DIAGRAM



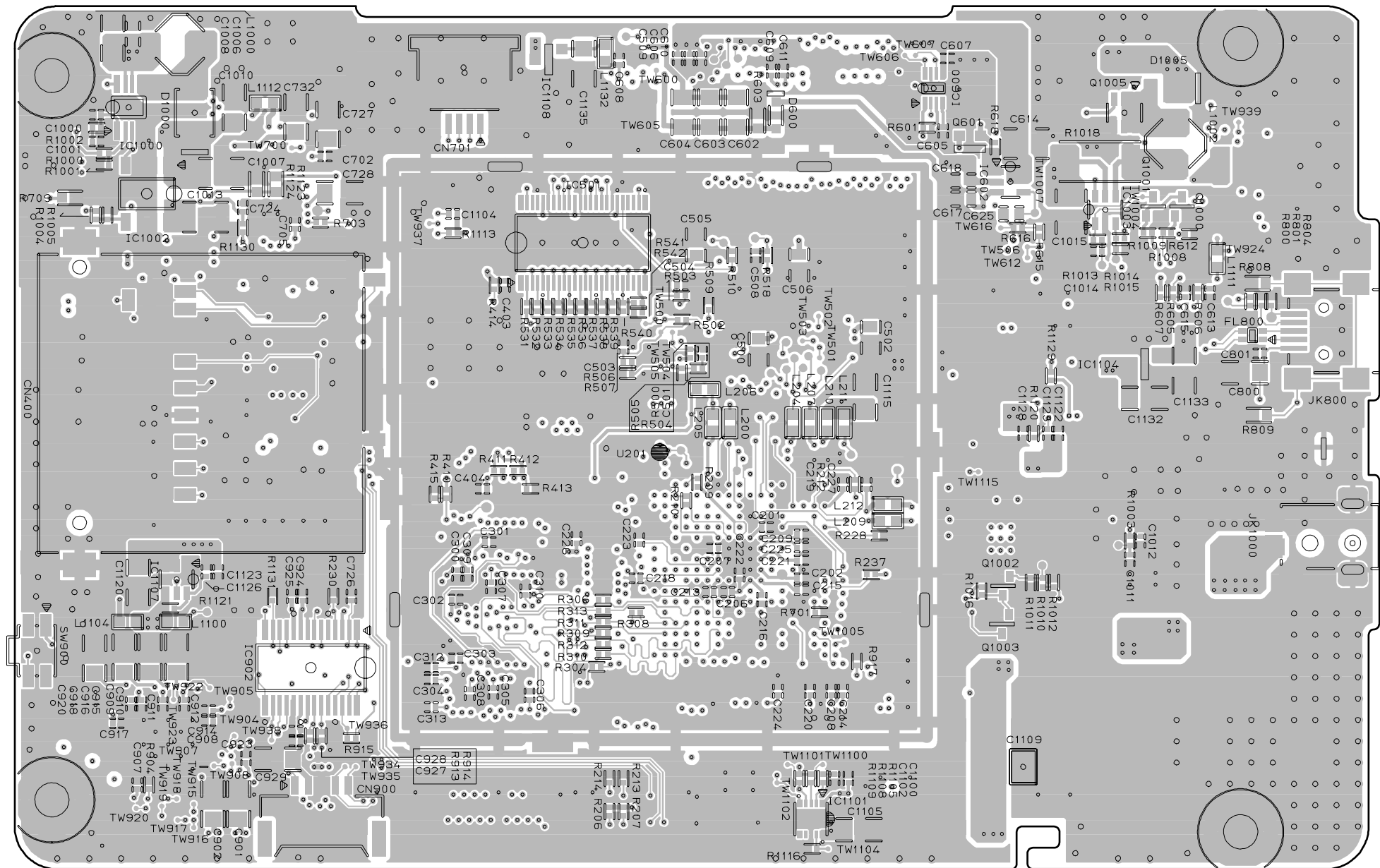
❑ PRINTED CIRCUIT DIAGRAM

- MAIN P.C BOARD DIAGRAM (TOP SIDE)



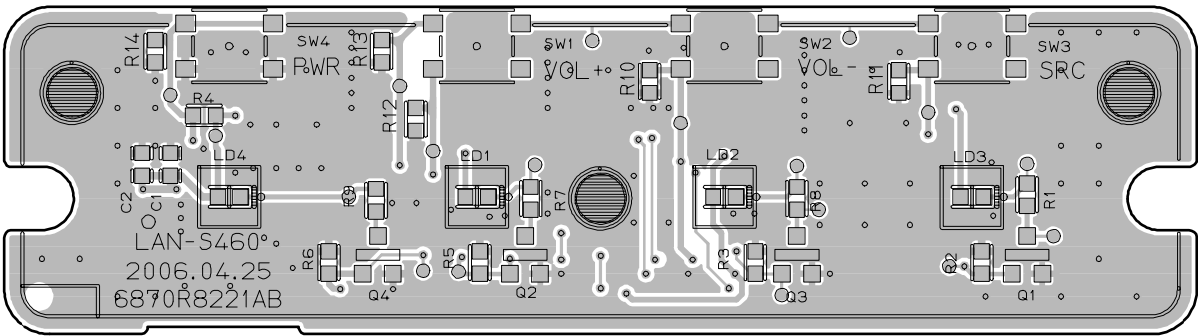


- **MAIN P.C BOARD DIAGRAM (BOTTOM SIDE)**

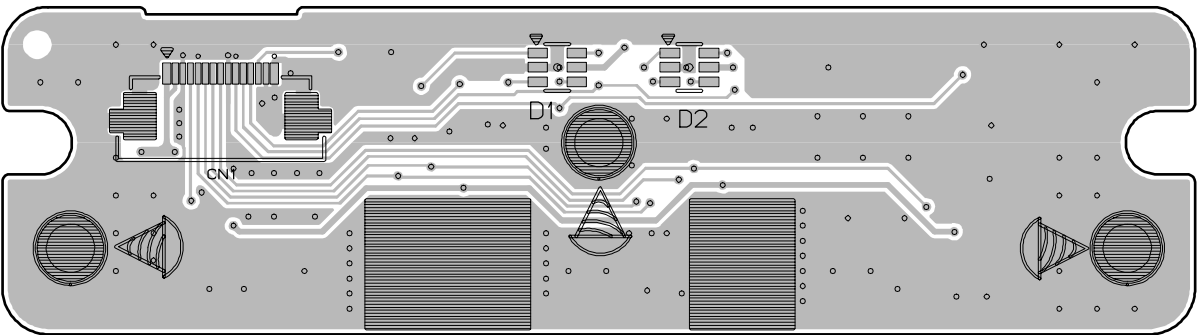




• KEY P.C BOARD DIAGRAM (TOP SIDE)



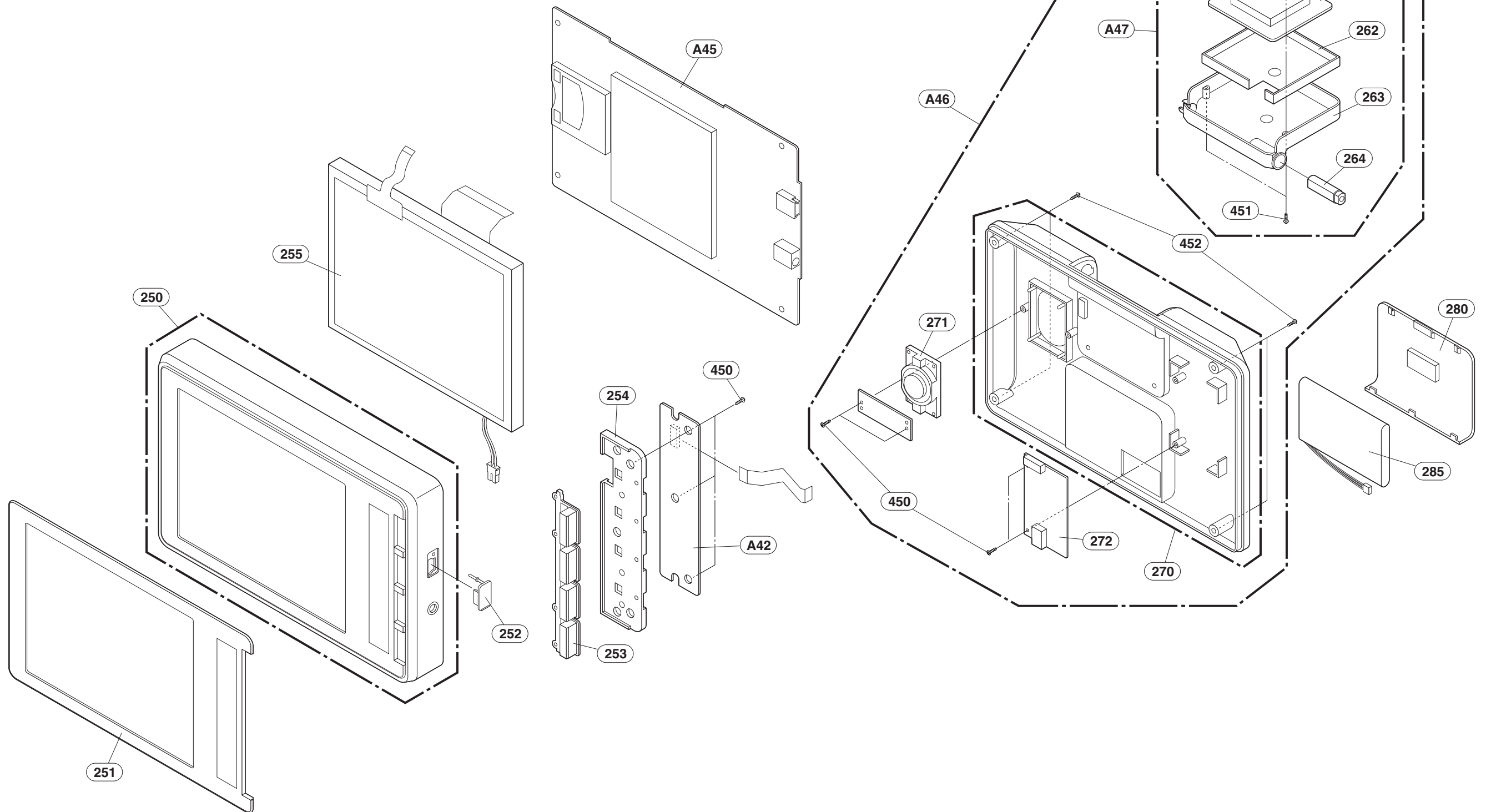
• KEY P.C BOARD DIAGRAM (BOTTOM SIDE)



## SECTION 3. EXPLODED VIEWS

### □ CABINET & MAIN FRAME SECTION

NOTE) Refer to SECTION 4 REPLACEMENT PARTS LIST in order to look for the part number of each part.



MEMO

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MEMO

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