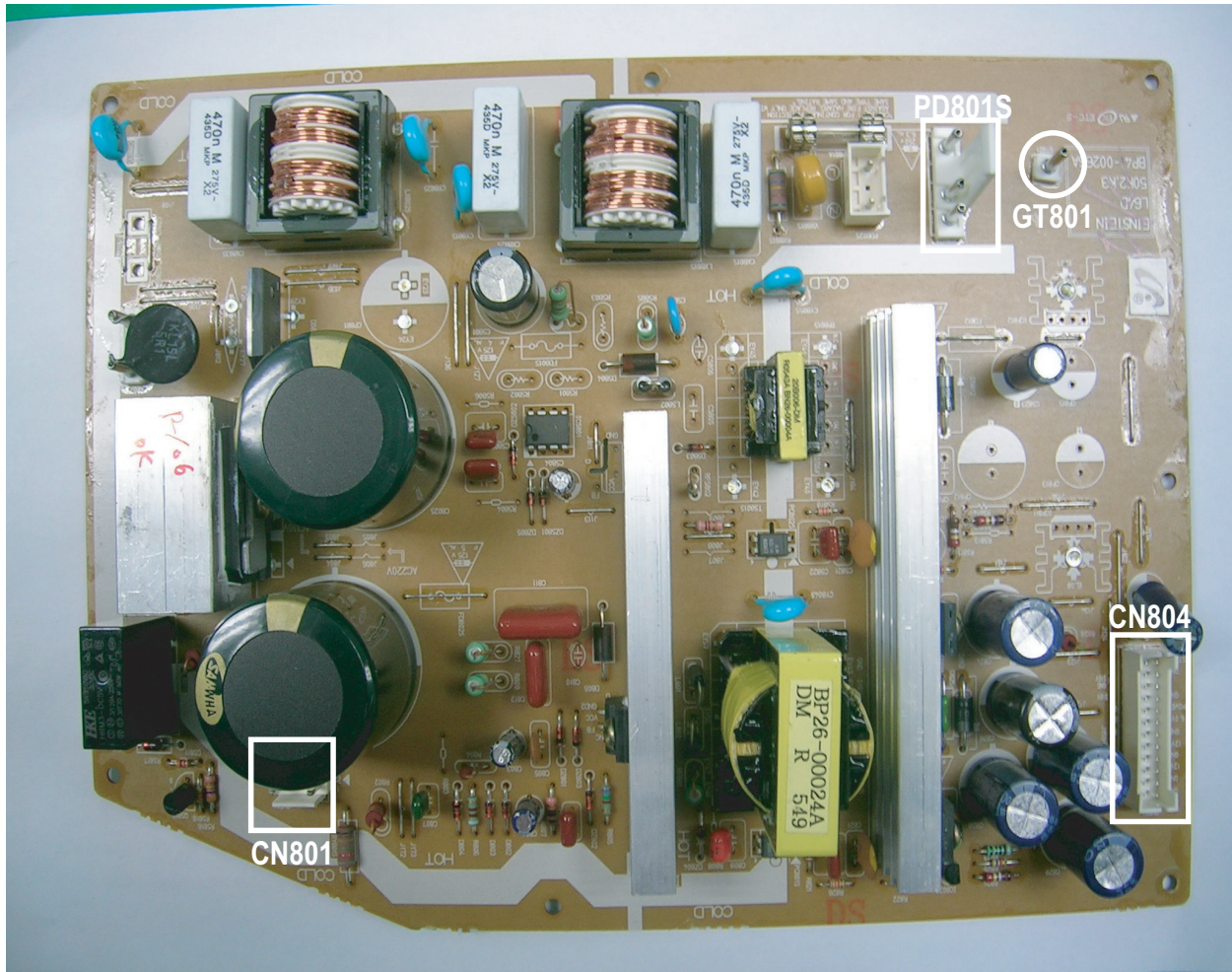


9. PCB Diagram

9-1 Power Board

9-1-1 Assy Power Board



■ DC Power Supply

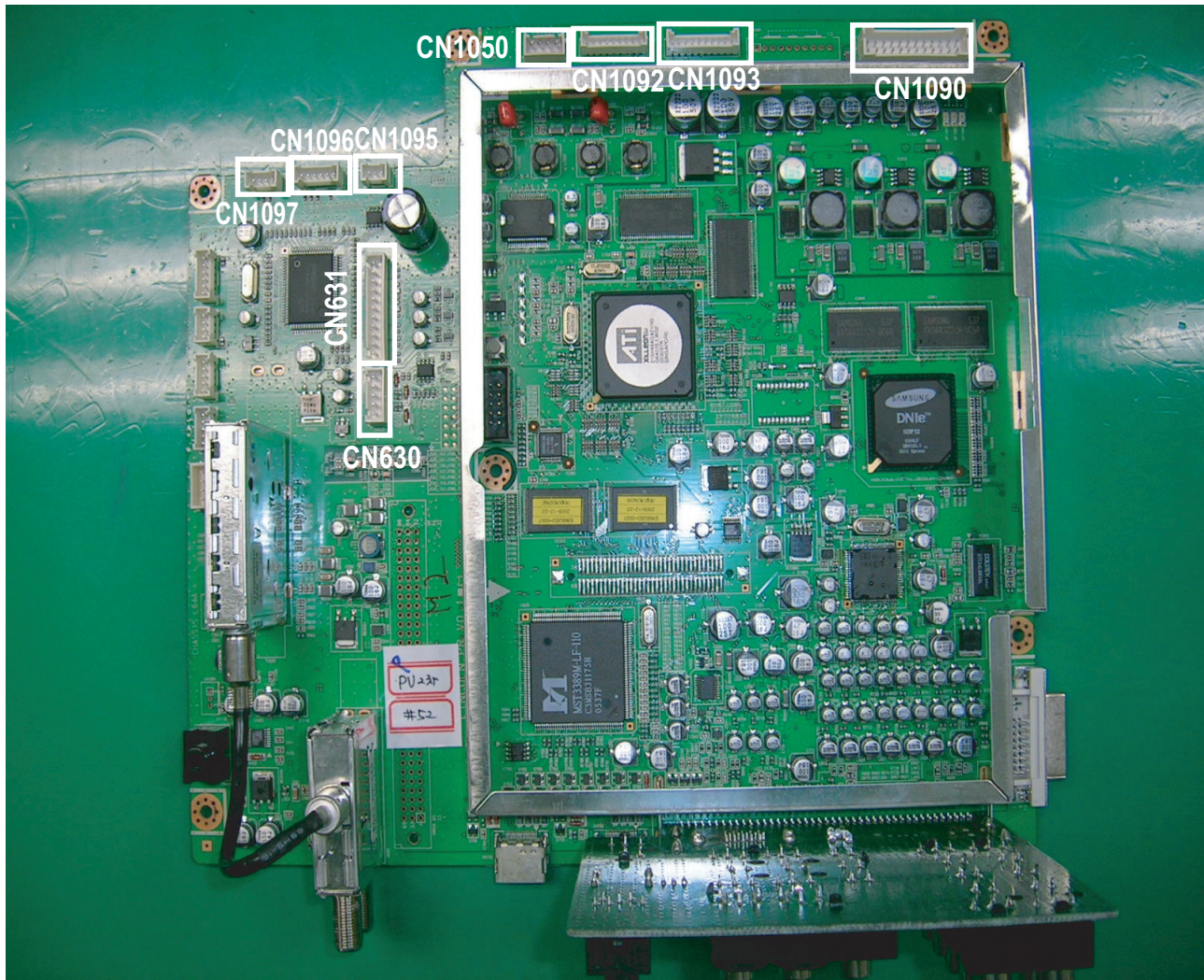
(Supplies DC power to the Main PCB. The analog board is responsible for the power supply to the digital/DMD board.)

9-1-2 Names & Roles of Key Parts

- * CN801 : Supplies power (DC330V \pm 10%) to the ballast.
- * GT801 : Anti-lightning wire connected to the digital board. The anti-lightning wire should be installed for safety purposes.
- * PD801S : Connecting with power cable.
- * CN804 : Supplies power to Main board.

9-2 Main Board

9-2-1 Assy Main Board



- Microprocessor (Generates turn-on signal to power board)
- All Digital Video Processing
- OSD / Menu
- Reset Switch
- Distributes supply voltage from the Power Board to DMD Board.
- Transfers Turn-on Command to Power Board.
- Analog Video Switching / Processing
- Analog Audio Switching / Processing

9-2-2 Names & Roles of Key Parts

* High Definition Multimedia Interface :

The HDMI™ (High Definition Multimedia Interface) supports uncompressed standard and high definition digital video formats and existing digital multi-channel audio formats.

* CN1090 : Transfer Power sources from SMPS board.

* CN1093 : connection with Sub-Detect Board.

Transfer power signal and I2C signal

* CN1092 : Transfer Power signal to DMD board.

* CN1050 : Transfer Sound signal to Speaker.

* CN1095 : Receive IR signal.

* CN1096 : Transfer Front LED power signal and Power switch signal.

* CN1097 : Receive Side Key signal.

* CN631 : Transfer AV & Sound Signal from Side AV Board.

* CN630 : Connection with Wiselink.

9-2-3 Main Board Connector Pin

CN1090

Pin Name	PIN No.		Pin Name
STB-5V	1	2	Power-Mute
G	3	4	S16VB
33VB	5	6	G
G	7	8	S16VB
POWER-SW	9	10	G
D5.7V	11	12	D5.7V
G	13	14	G
12VB	15	16	12VB
G	17	18	G
12VB	19	20	12VB
G	21	22	G
G	23	24	70VB

CN1092

Pin No.	Pin Name
1	D5V
2	D5V
3	G
4	G
5	12VB
6	12VB
7	G
8	G
9	G

CN1093

Pin No.	Pin Name
1	G
2	12VB
3	G
4	SDA-M1
5	SCL-M1
6	G
7	STB-5V
8	G
9	70VB
10	G

CN1097

Pin No.	Pin Name
1	G
2	KEY1
3	KEY2
4	G

CN1095

Pin No.	Pin Name
1	IR
2	G
3	STB5V

CN1096

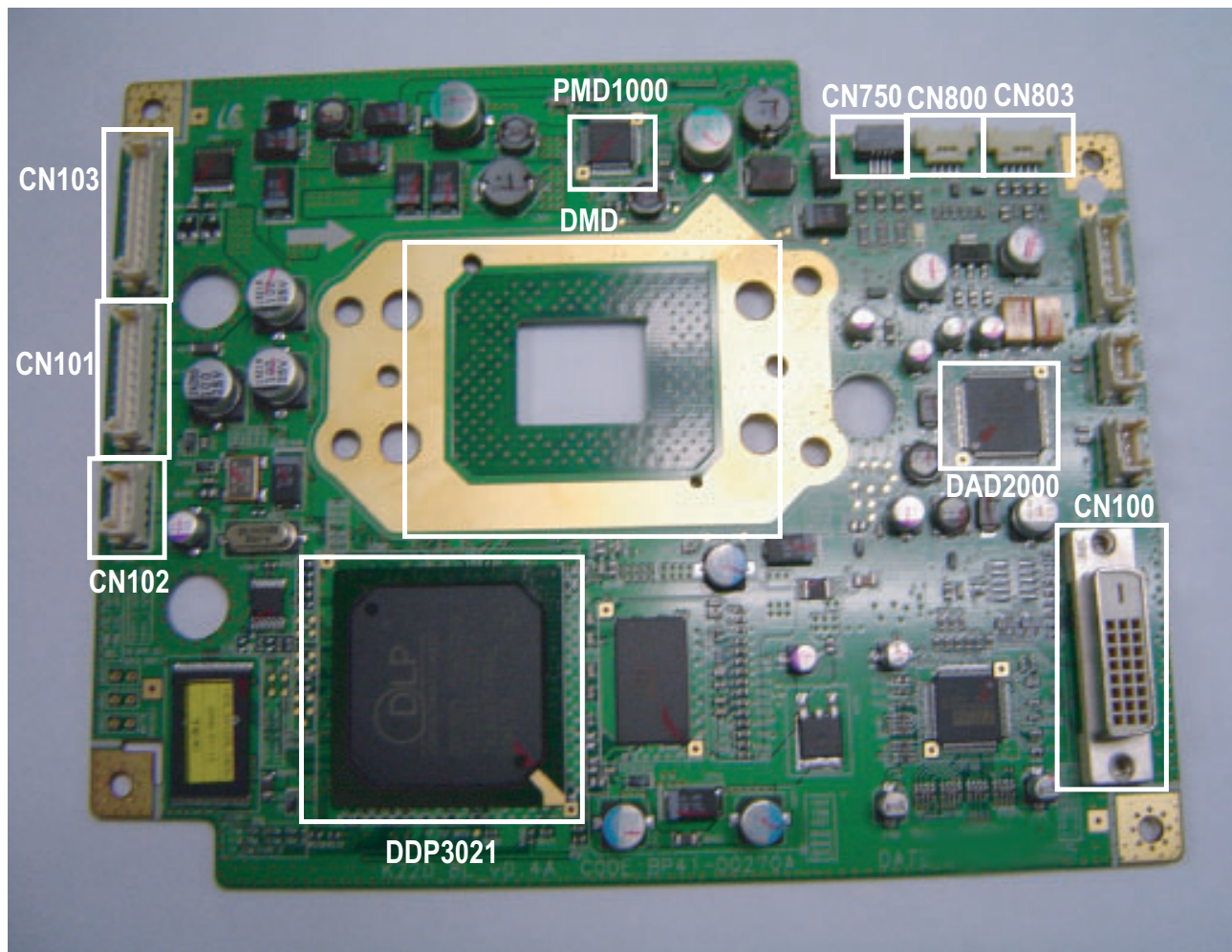
Pin No.	Pin Name
1	STB-5V
2	KEY-PWR
3	G
4	LED-STB
5	LED-LAMP
6	LED-TIMER

CN1050

Pin No.	Pin Name
1	-L-OUT
2	+L-OUT
3	-R-OUT
4	+R-OUT

9-3 DMD Board

9-3-1 Assy DMD Board



- Controls the lamp (ON/OFF)
- Drives the color wheel motor
- Drives the panel

9-3-2 Names & Roles of Key Parts

- * CN101 : This receives the power source from the analog board and communicates with the I2C.
- * CN102 : This sends a 60Hz signal to the signal to the actuator module.
- * CN750 : This supplies the power to drive the color wheel.
- * CN800 : This receives the color wheel rotating signals.
- * CN803 : This sends signals to the ballast.
- * CN100 : The DVI cable terminal. This receives the image data from the digital board.
- * DMD PANEL : This is protected with a heat sink and fixtures.
- * DDP3021 : This processes the DMD drive and the signals.
- * PMD1000 : This supplies the DMD Board power and controls the color wheel rotating.
- * DAD2000 : This supplies DMD reset signals.

MEMO