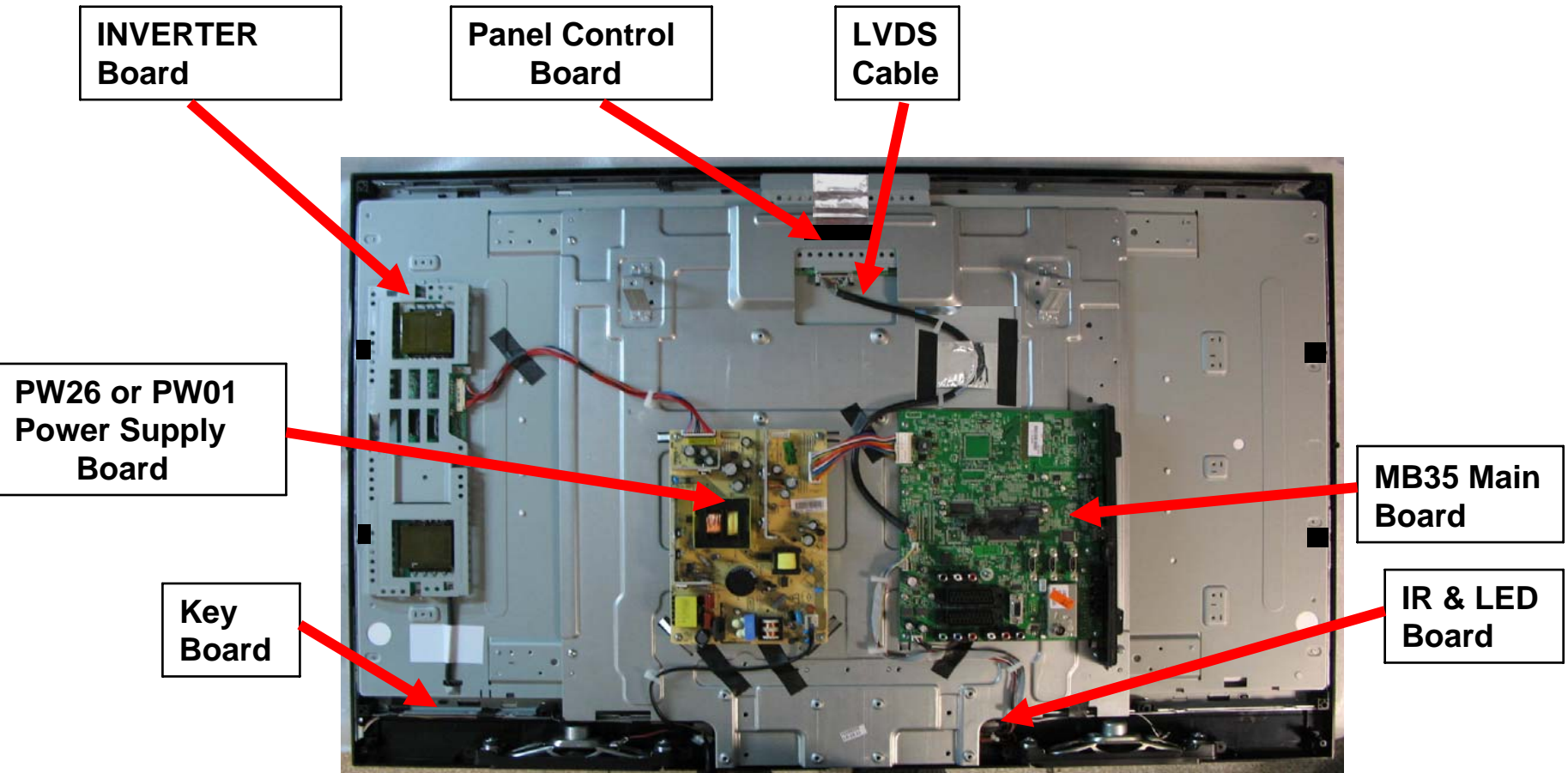
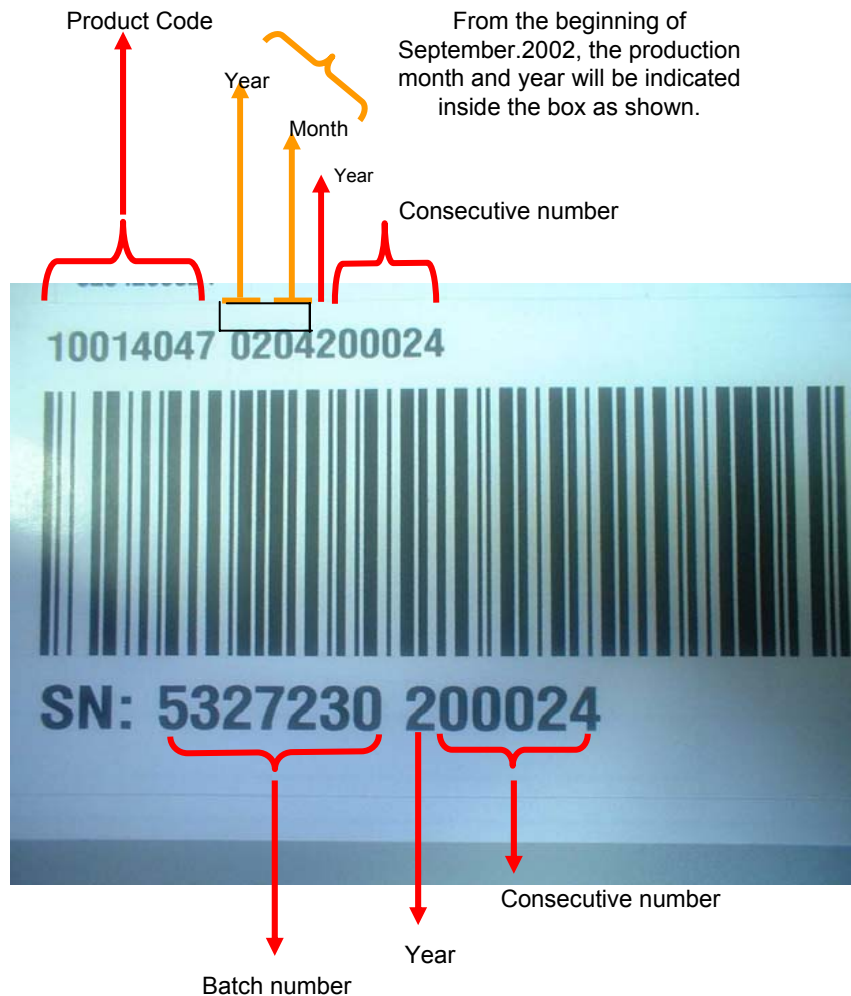
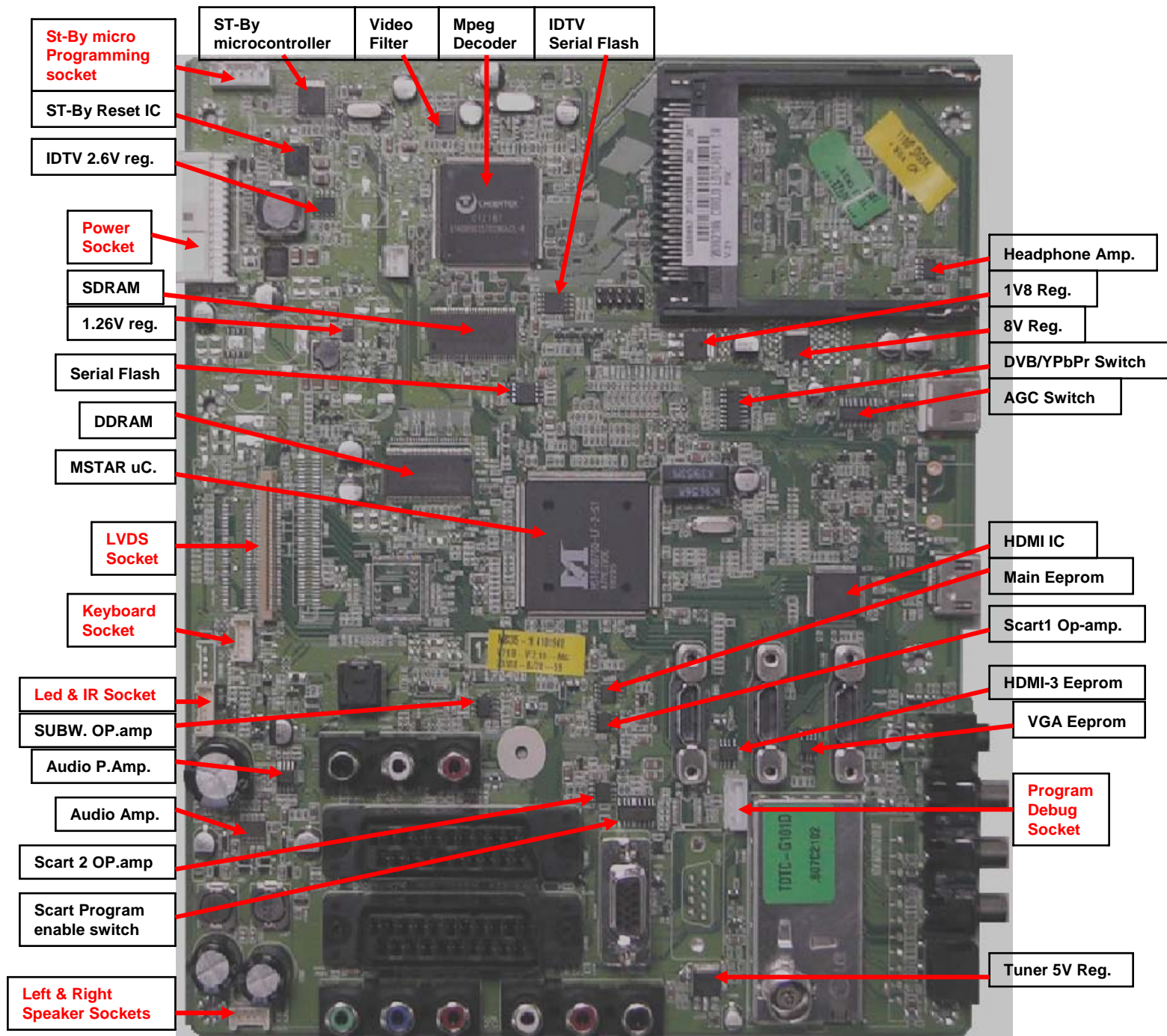


INTRODUCTION OF BOARDS



IDENTIFICATION OF PRODUCTION CODE





St-By micro
Programming
socket

ST-By Reset IC

IDTV 2.6V reg.

Power
Socket

SDRAM

1.26V reg.

Serial Flash

DDRAM

MSTAR uC.

LVDS
Socket

Keyboard
Socket

Led & IR Socket

SUBW. OP.amp

Audio P.Amp.

Audio Amp.

Scart 2 OP.amp

Scart Program
enable switch

Left & Right
Speaker Sockets

ST-By
microcontroller

Video
Filter

Mpeg
Decoder

IDTV
Serial Flash

Headphone Amp.

1V8 Reg.

8V Reg.

DVB/YPbPr Switch

AGC Switch

HDMI IC

Main Eeprom

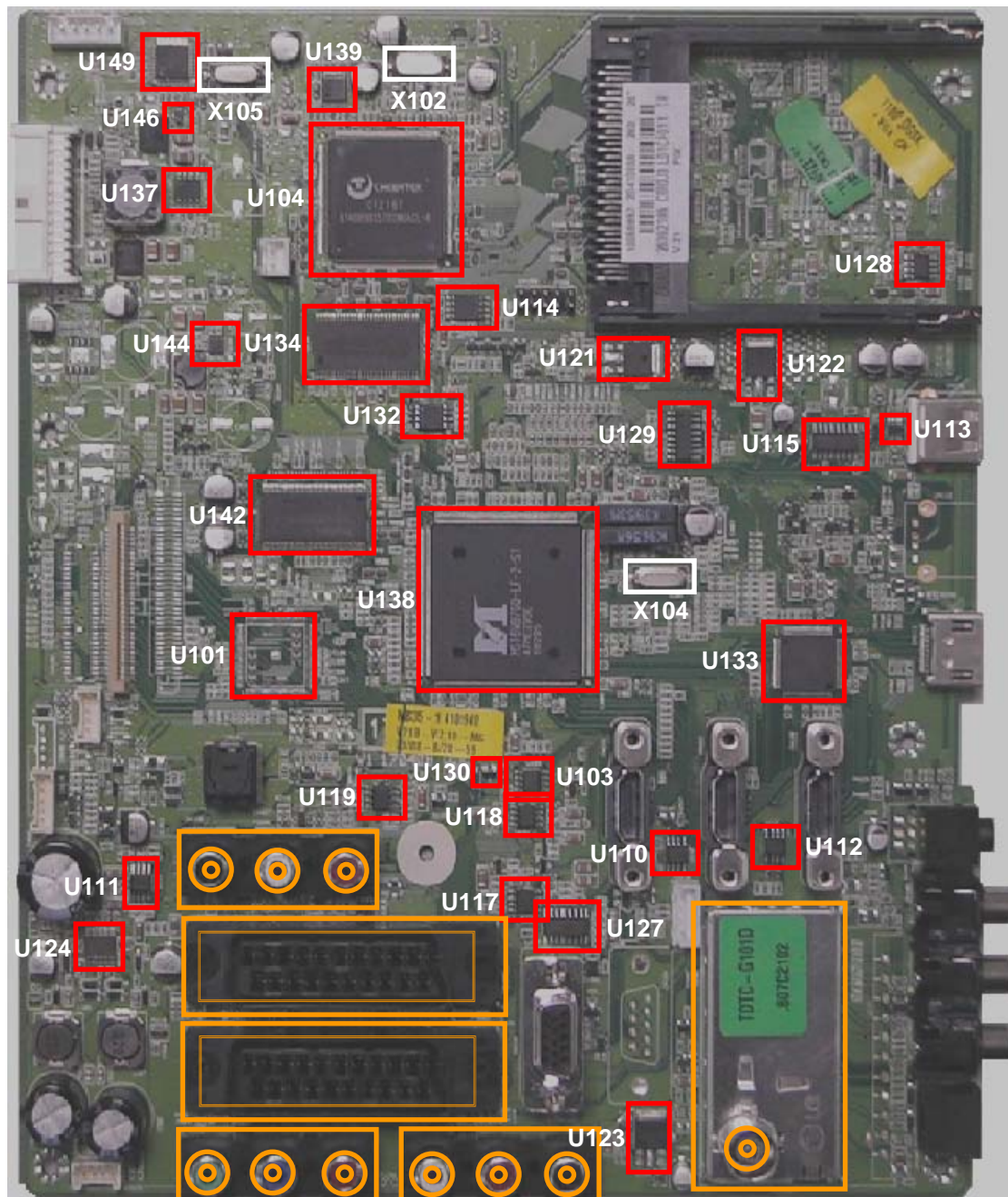
Scart1 Op-amp.

HDMI-3 Eeprom

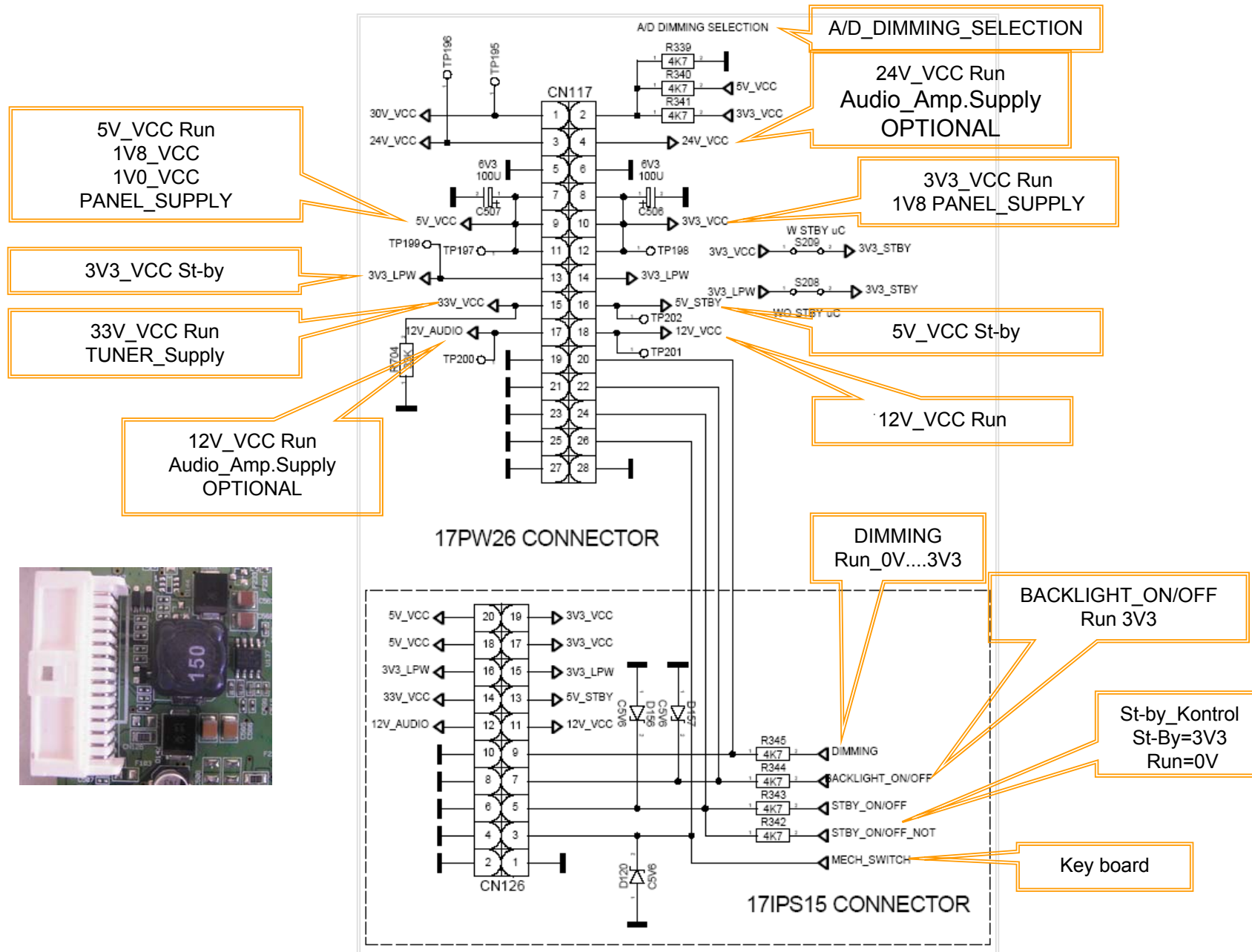
VGA Eeprom

Program
Debug
Socket

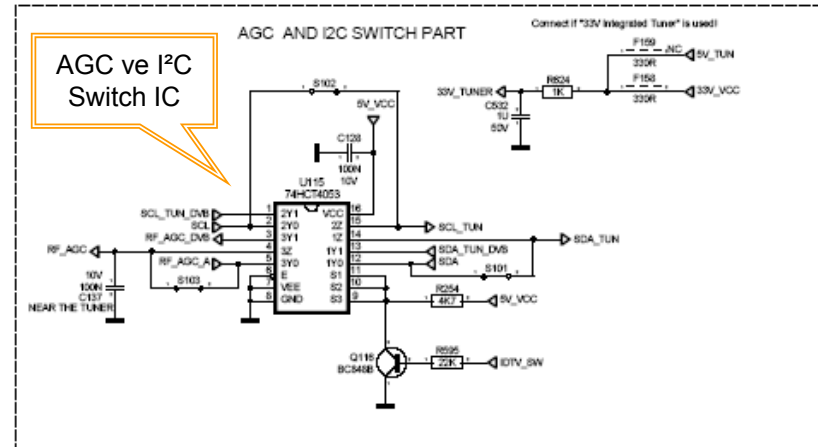
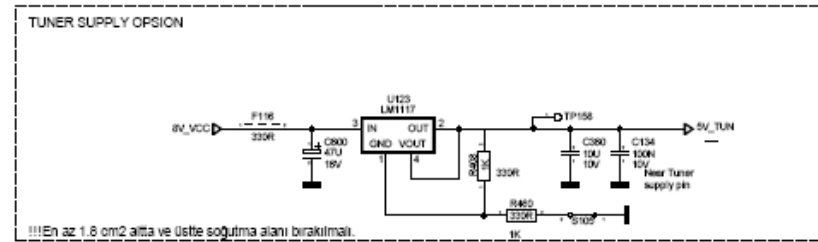
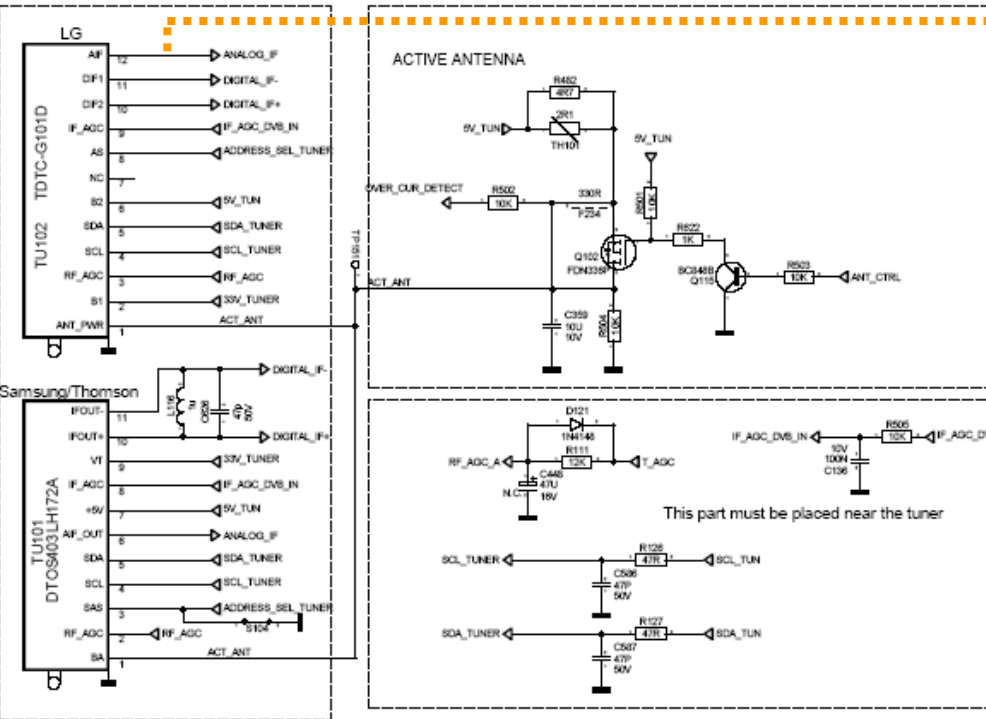
Tuner 5V Reg.



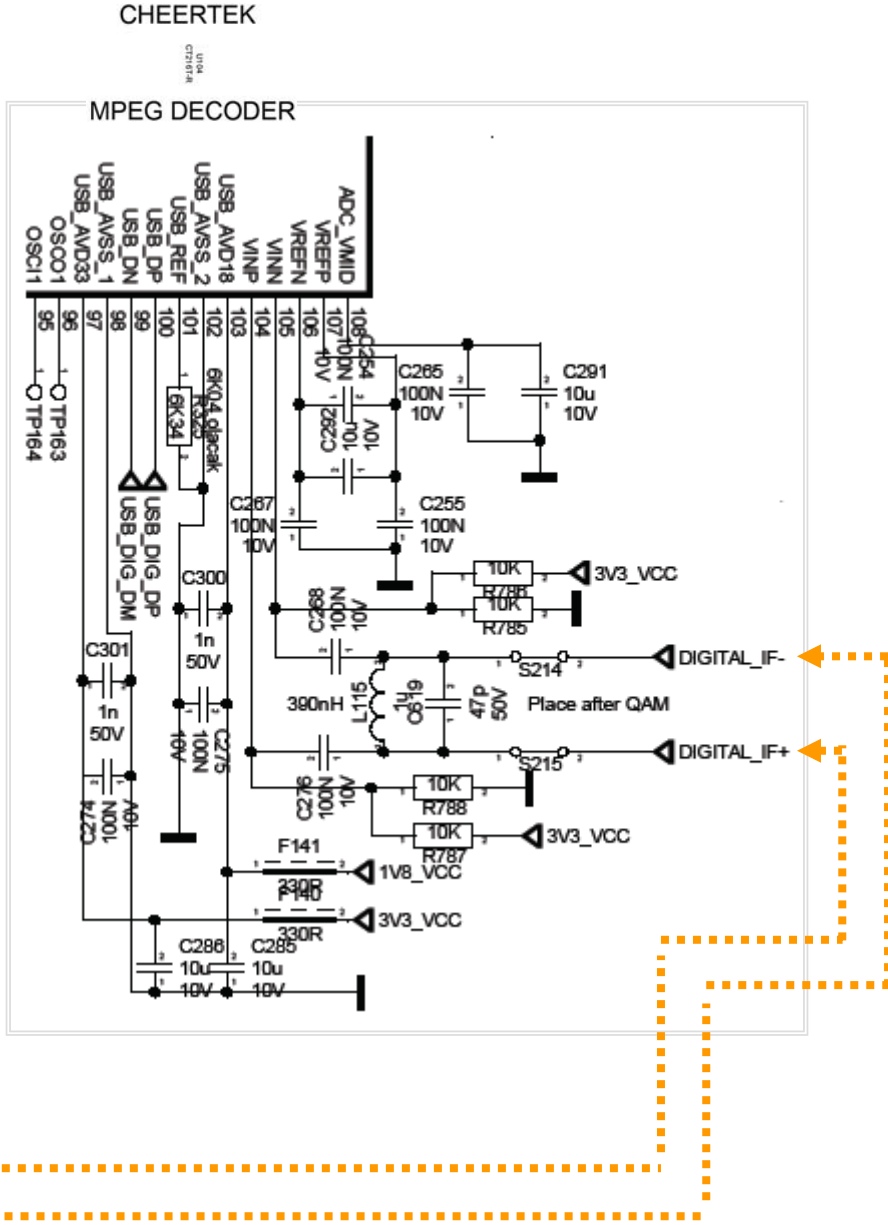
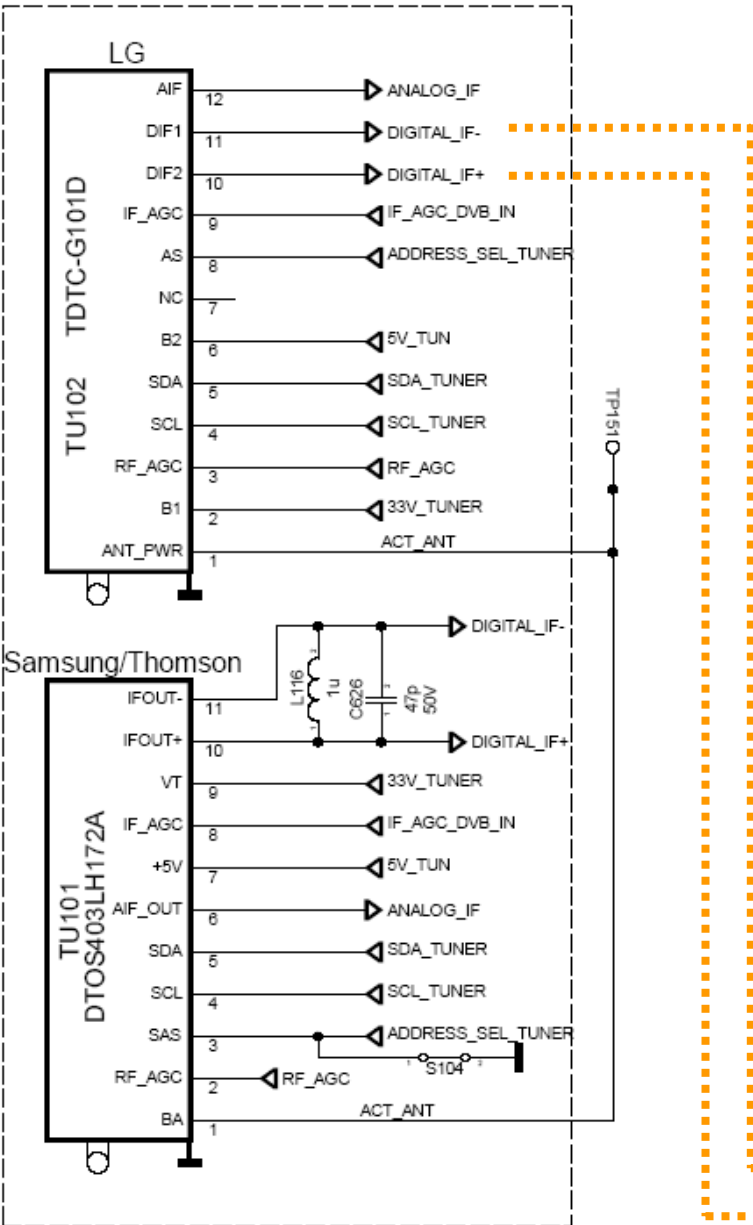
17MB35 Power Connector "CN117"



17MB35 Analog TUNER Circuit “ANALOG IF”



17MB35 Digital TUNER Circuit



17MB35 Controller IC

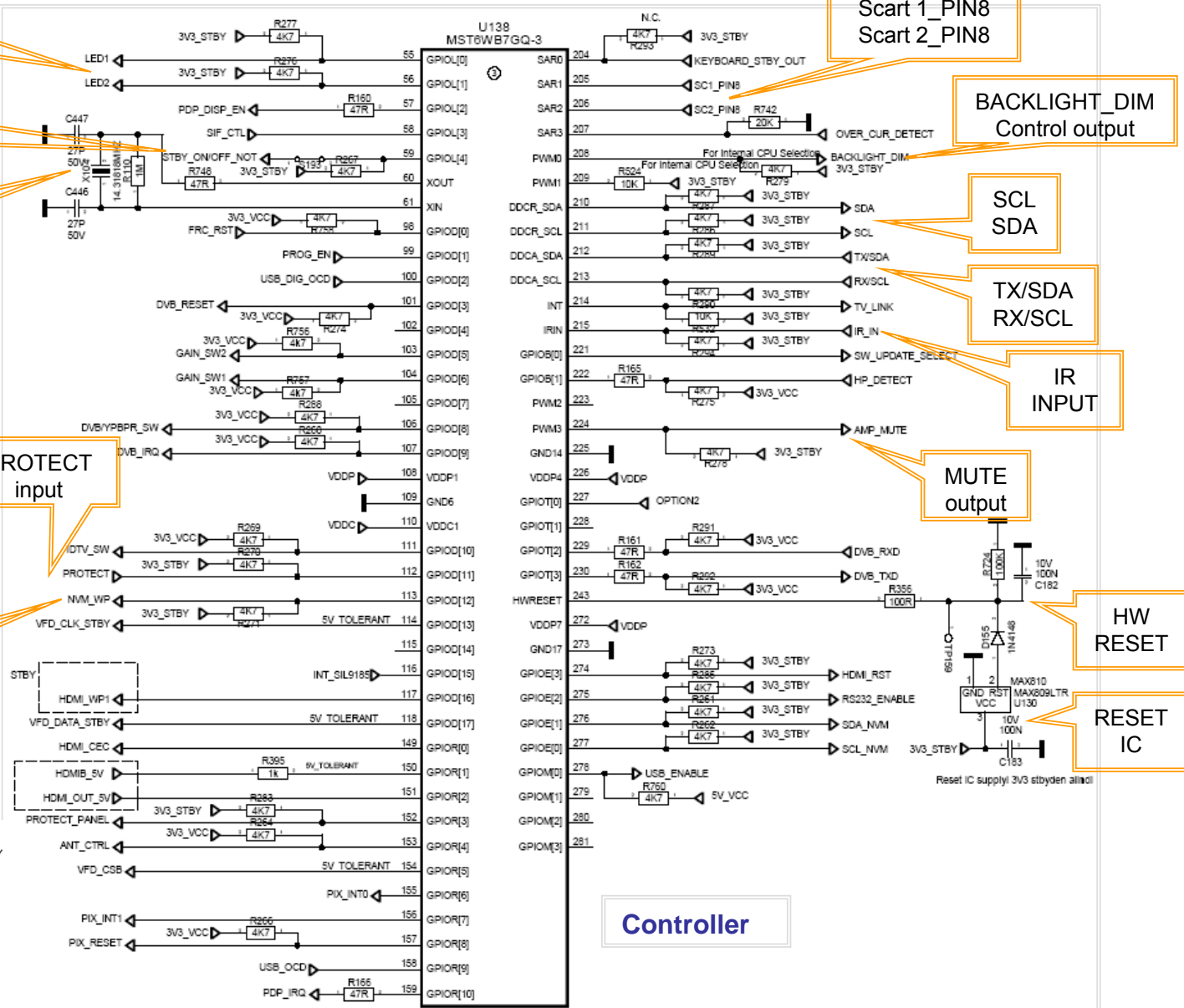
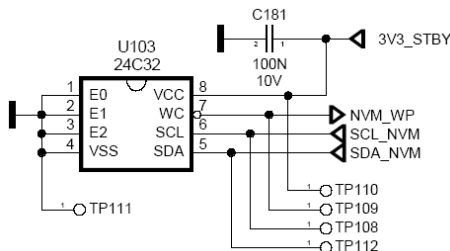
LED control outputs

STBY_ON/OFF output

14.3 MHz X'tal

PROTECT input

NVM_WP



Scart 1_PIN8
Scart 2_PIN8

BACKLIGHT_DIM
Control output

SCL
SDA

TX/SDA
RX/SCL

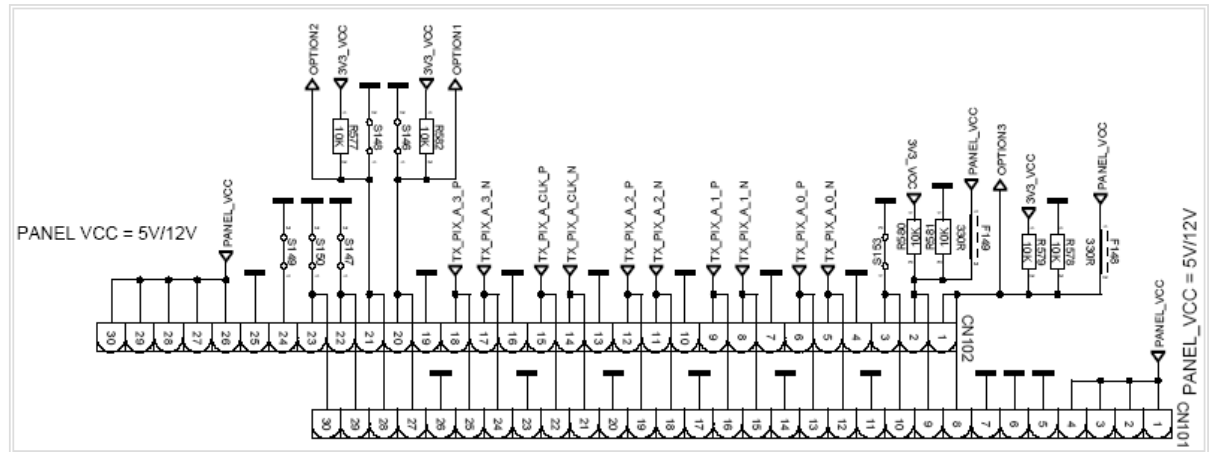
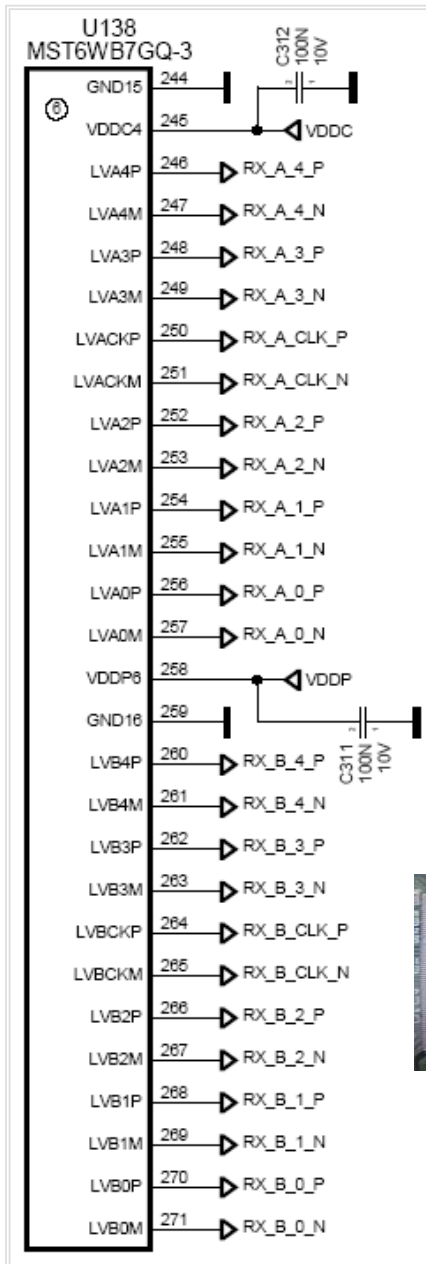
IR
INPUT

MUTE
output

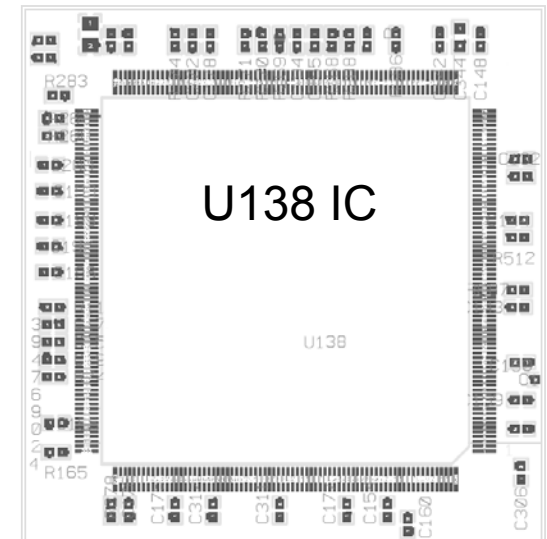
HW
RESET

RESET
IC

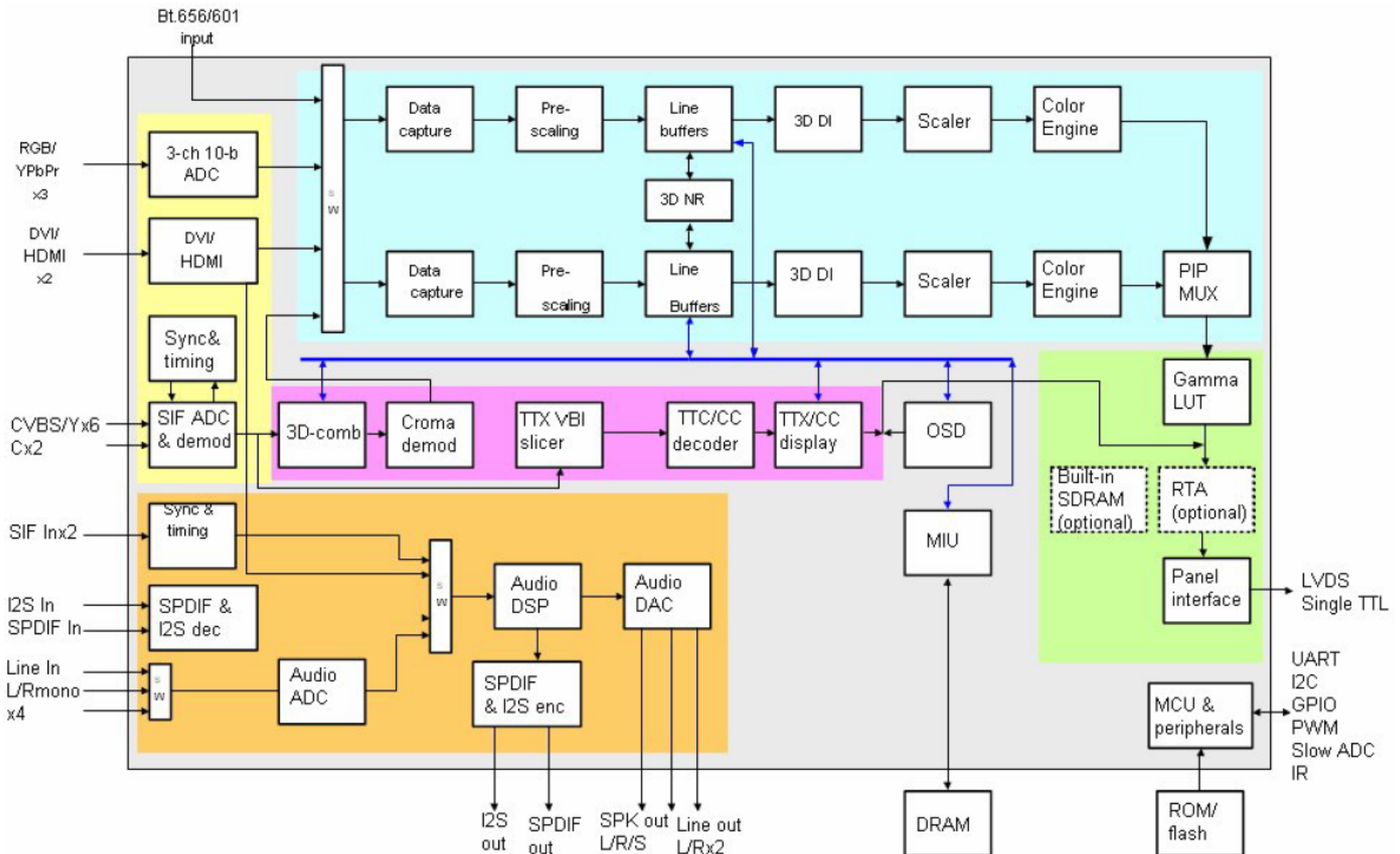
17MB35 LVDS Interface



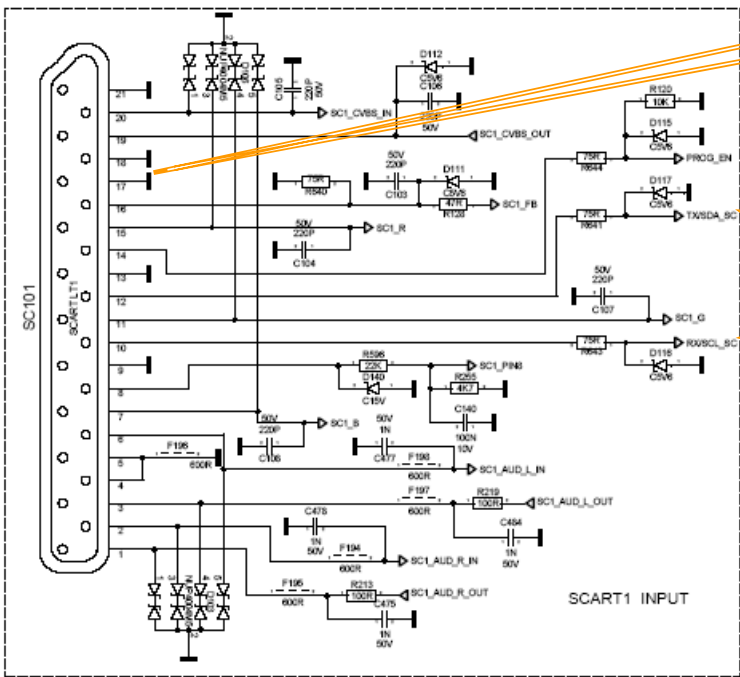
LVDS Socket



17MB35 MSTAR IC “ Block Diagram “



17MB35 Analog Inputs / Outputs

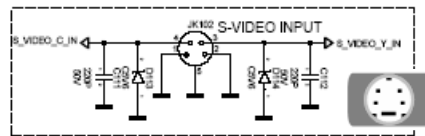


SCART-1

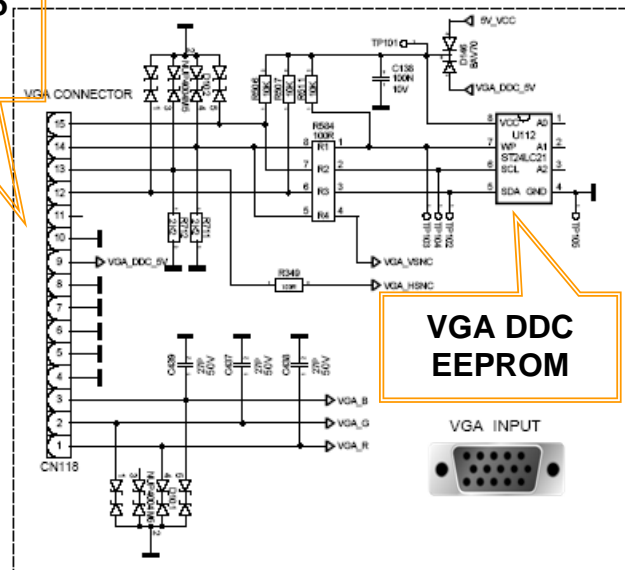
TX/SDA
(For SW
uploading)

RX/SCL
(For SW
uploading)

S-VHS Input

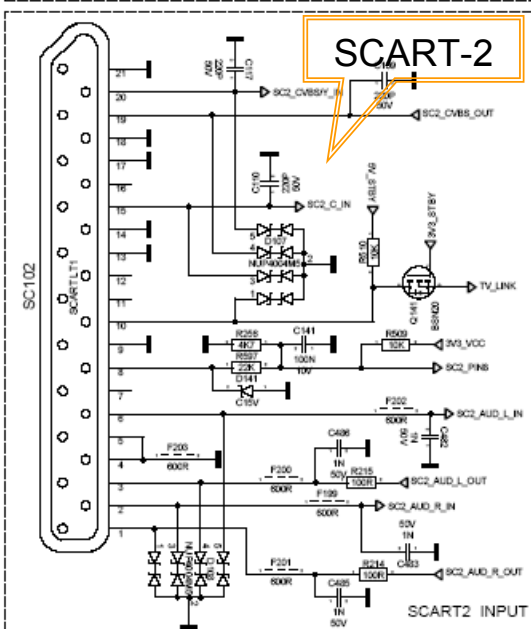


**VGA Input 15
PIN D-SUB
Connector**

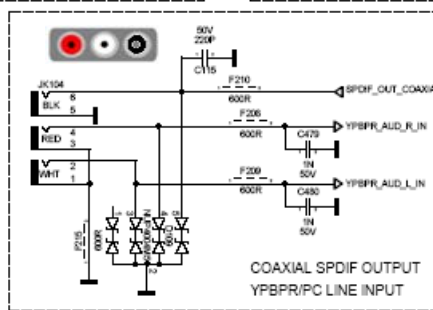


VGA DDC EEPROM

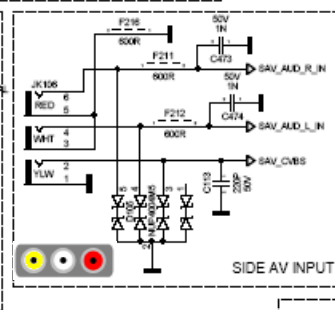
VGA INPUT



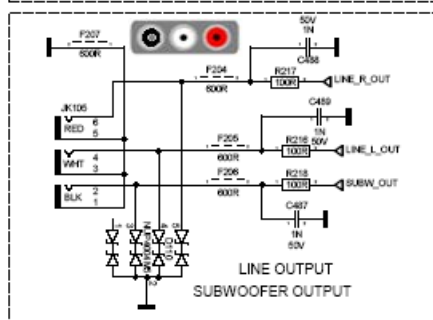
SCART-2



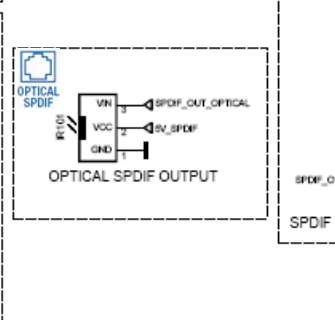
COAXIAL SPDIF OUTPUT
YPBPR/PC LINE INPUT



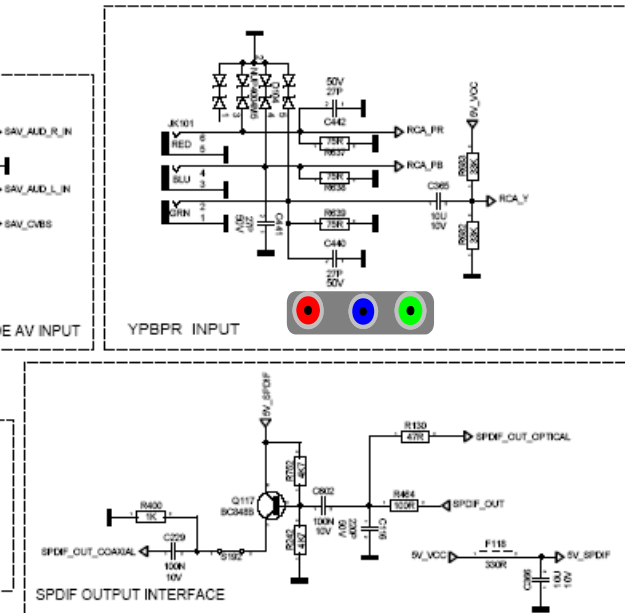
SIDE AV INPUT



LINE OUTPUT
DOOFER OUTPUT

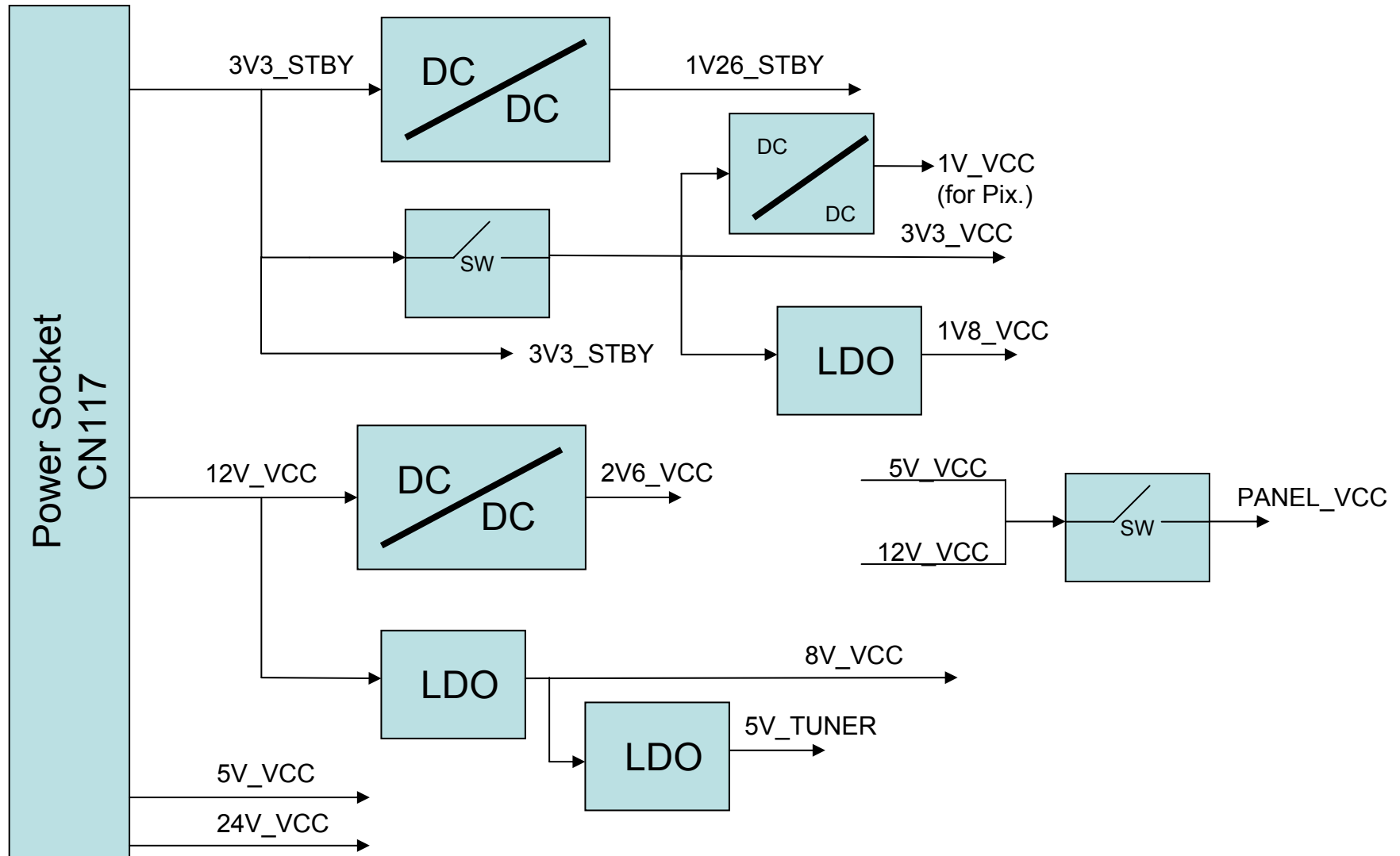


OPTICAL SPDIF OUTPUT

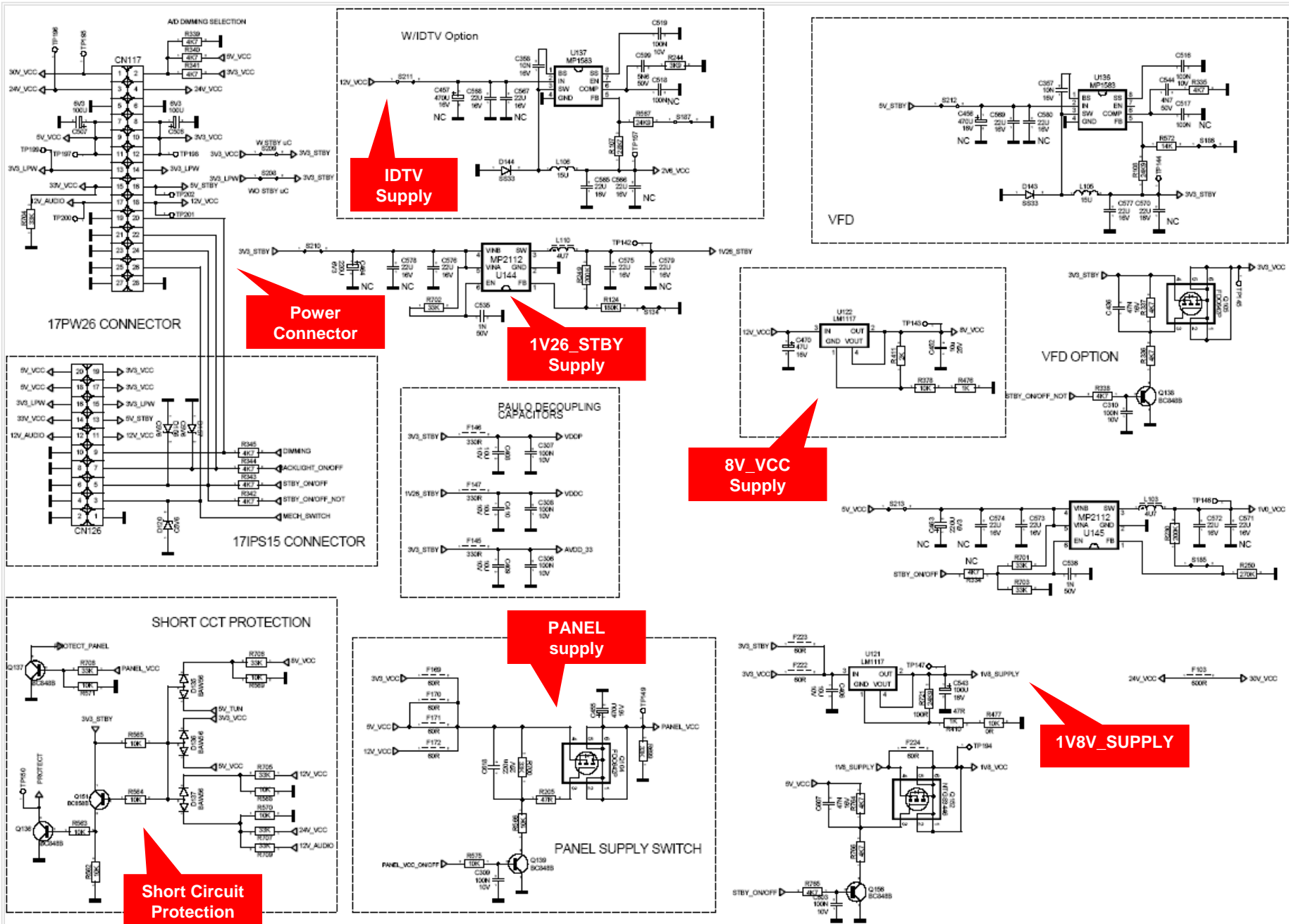


SPDIF OUTPUT INTERFACE

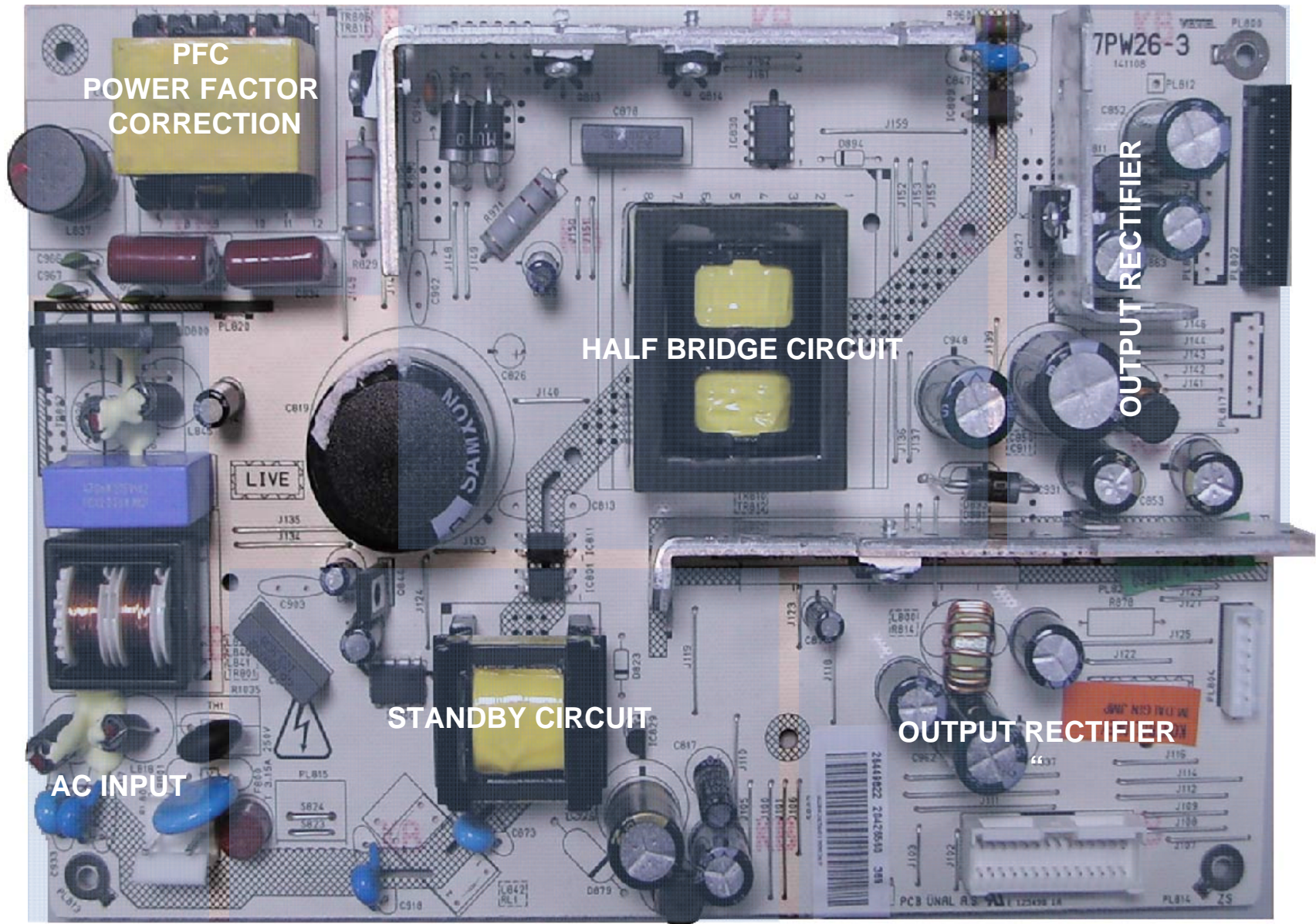
17MB35 POWER MANAGEMENT



17MB35 POWER CIRCUITS



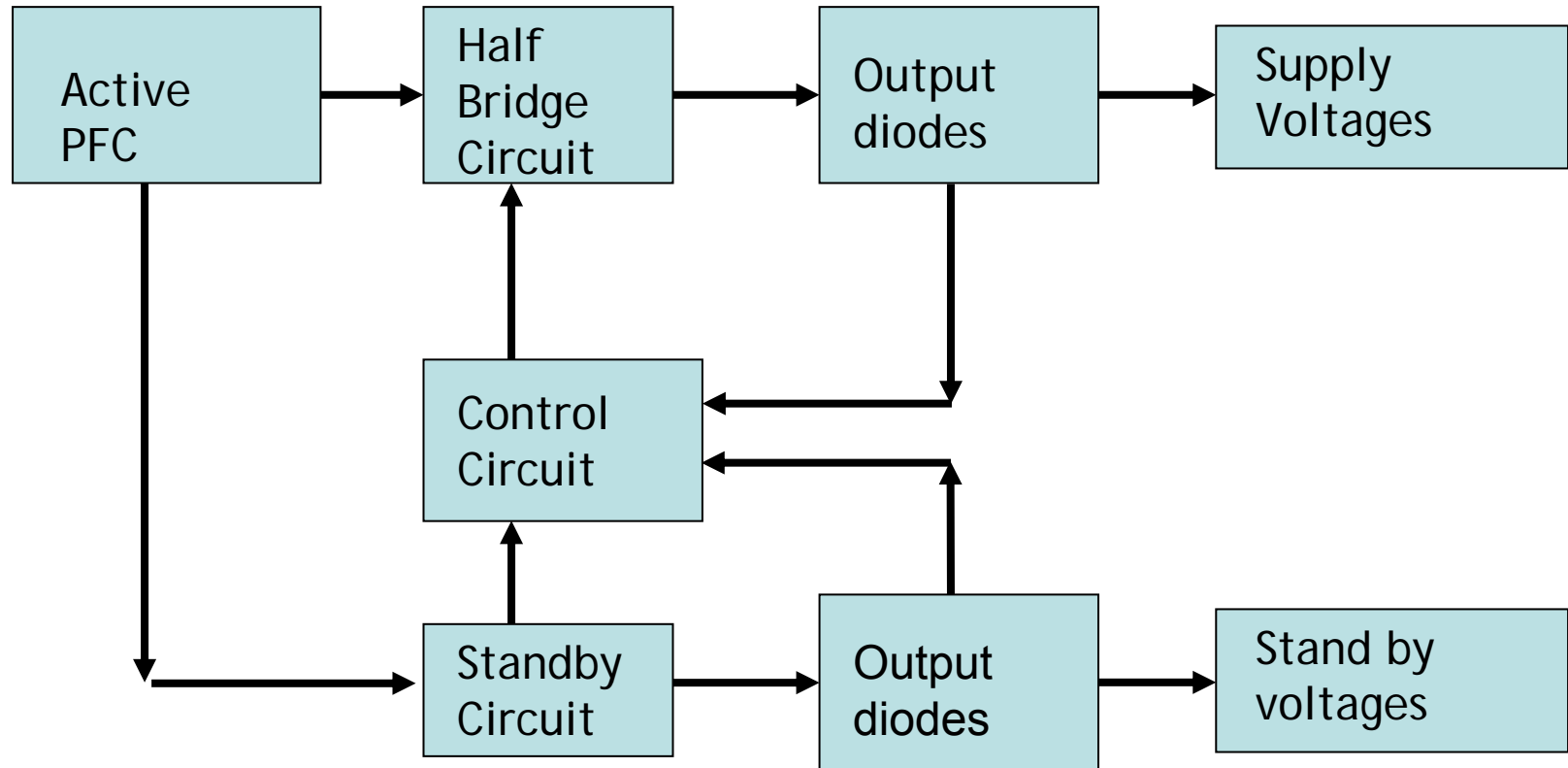
17PW26 POWER SUPPLY BOARD



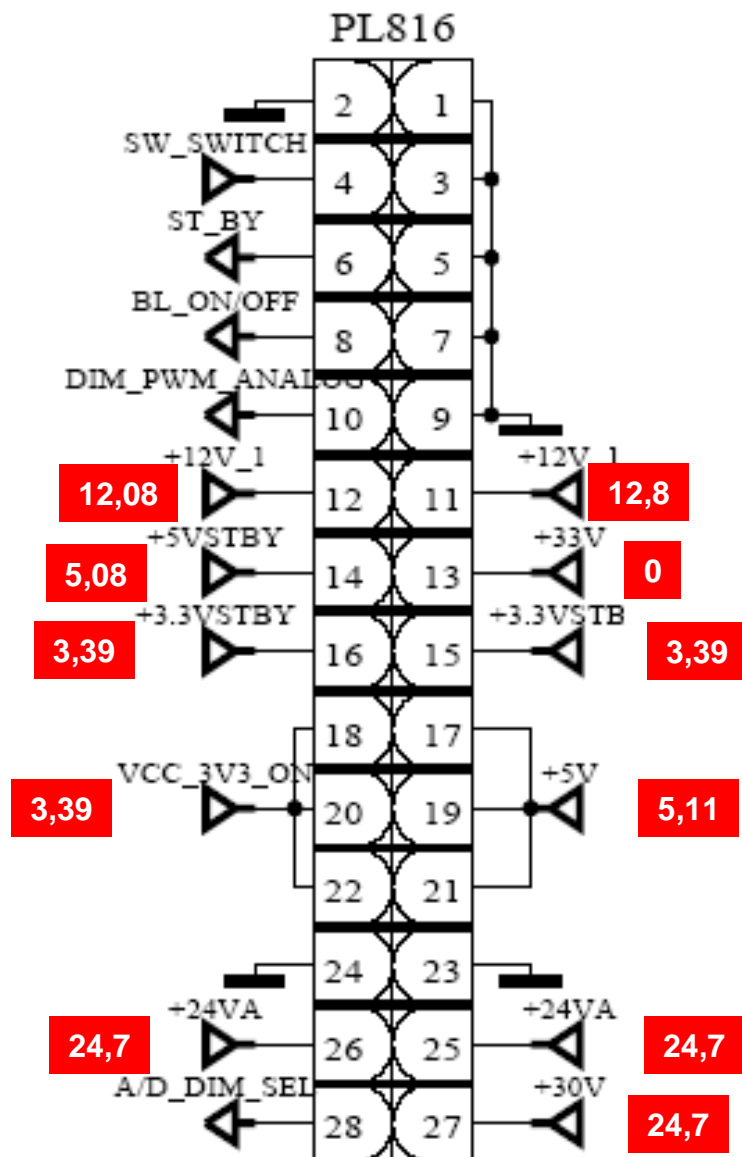
GENERAL FEATURES :

- Supporting between 26" to 42" Screen size
- Output power :
 - 26"- 32" → 160W
 - 37"- 42" → 230W
- Output Voltages : 3.3V, 5V, 12V, 24V, 33V
- Supported chassis : 17MB35 ve 17MB25
- Input voltage limits : 170-270V AC
(optional 90-270V)

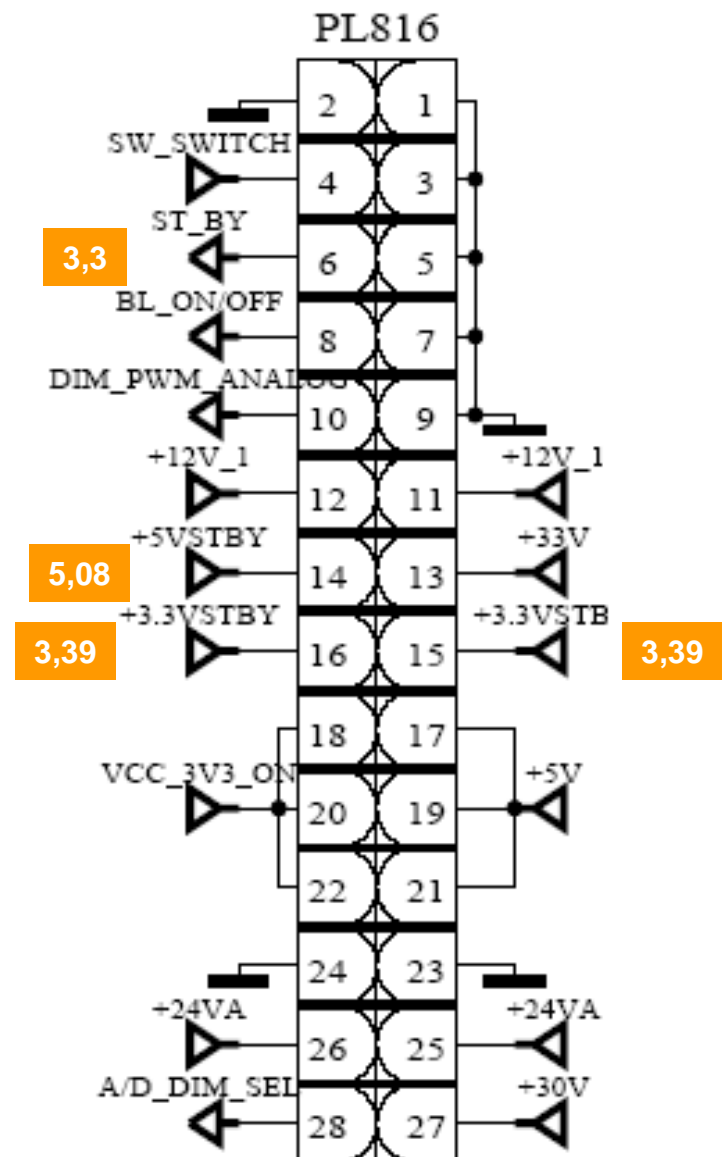
BLOCK Diagram



17PW26

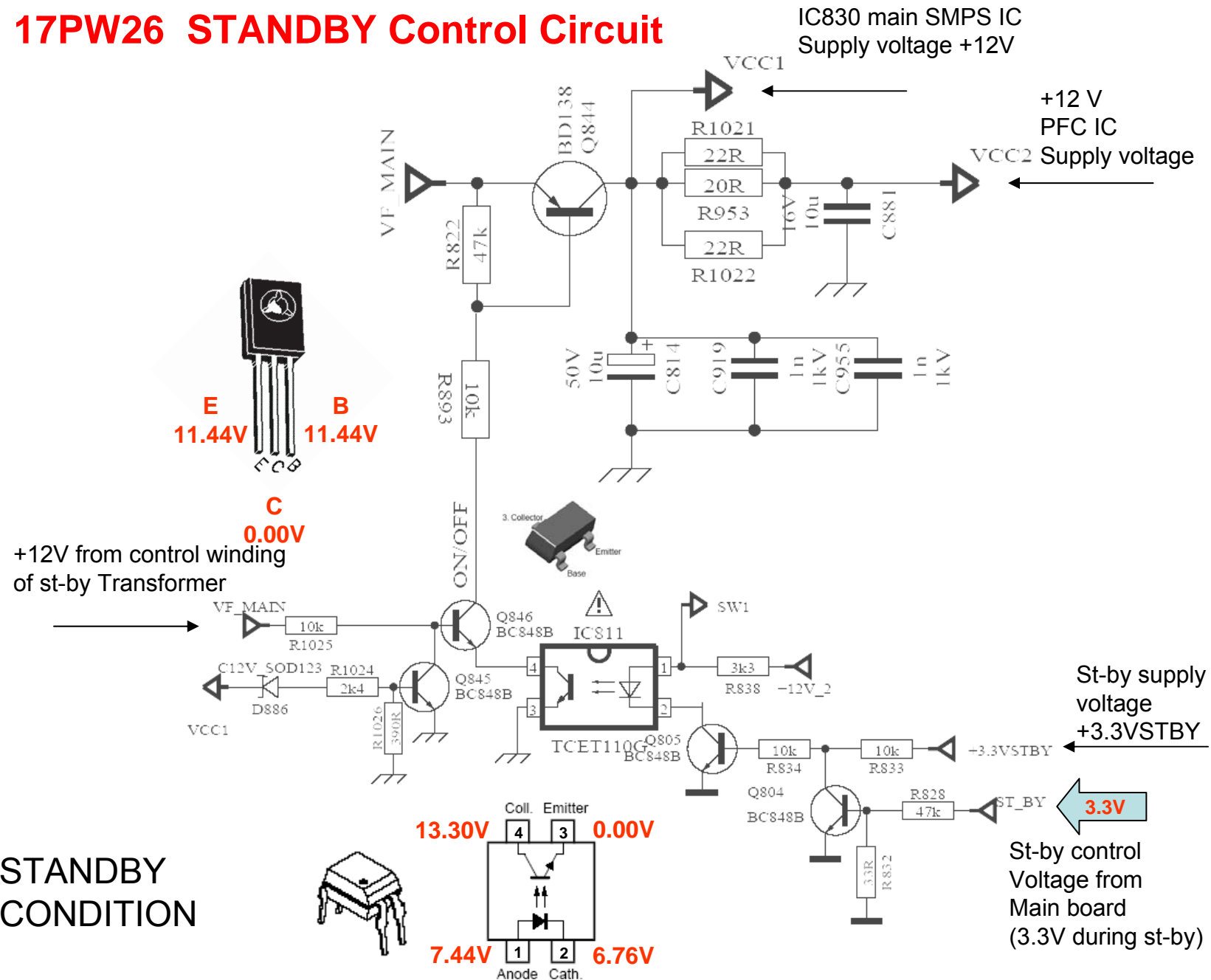


Power ON Condition

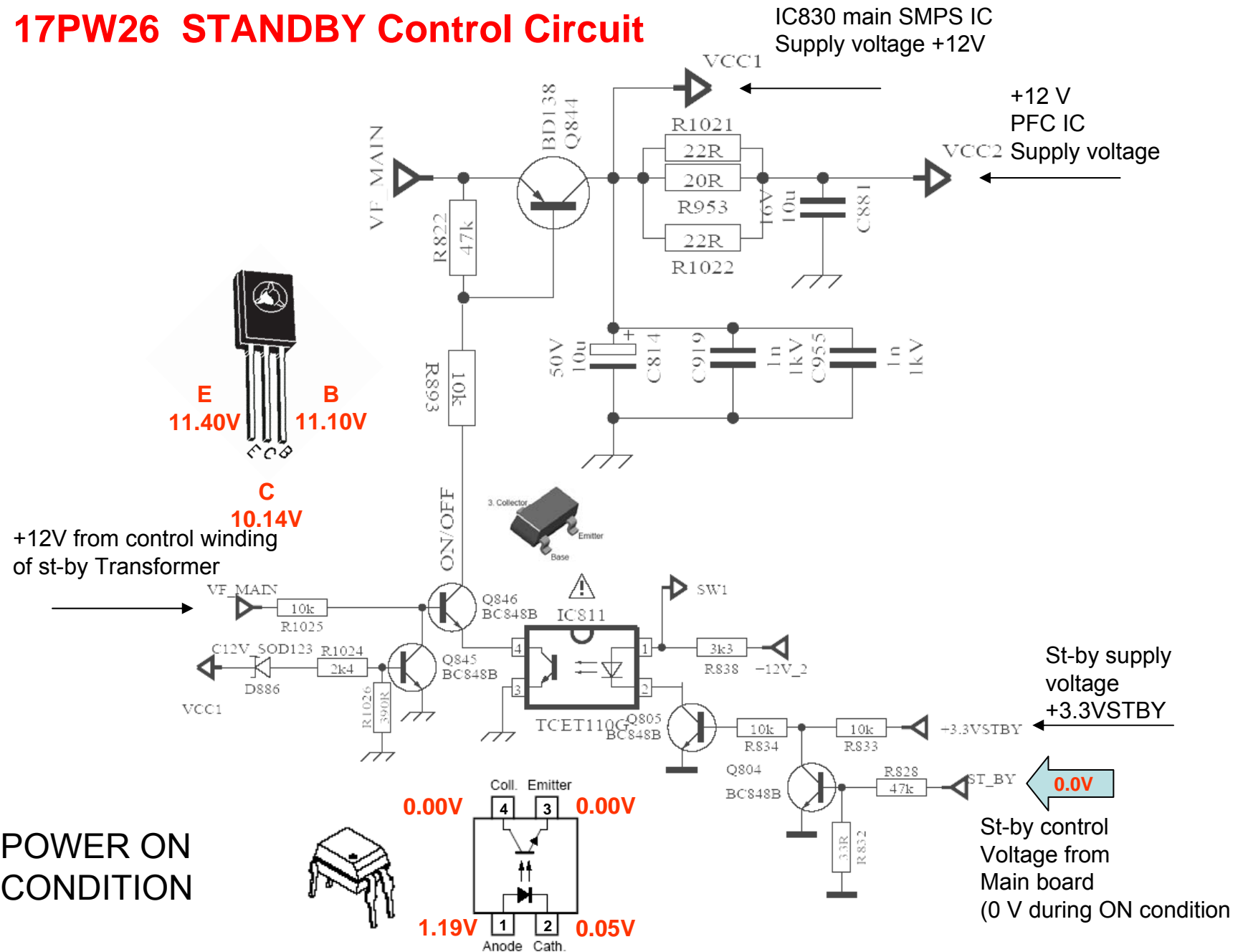


STAND BY Condition

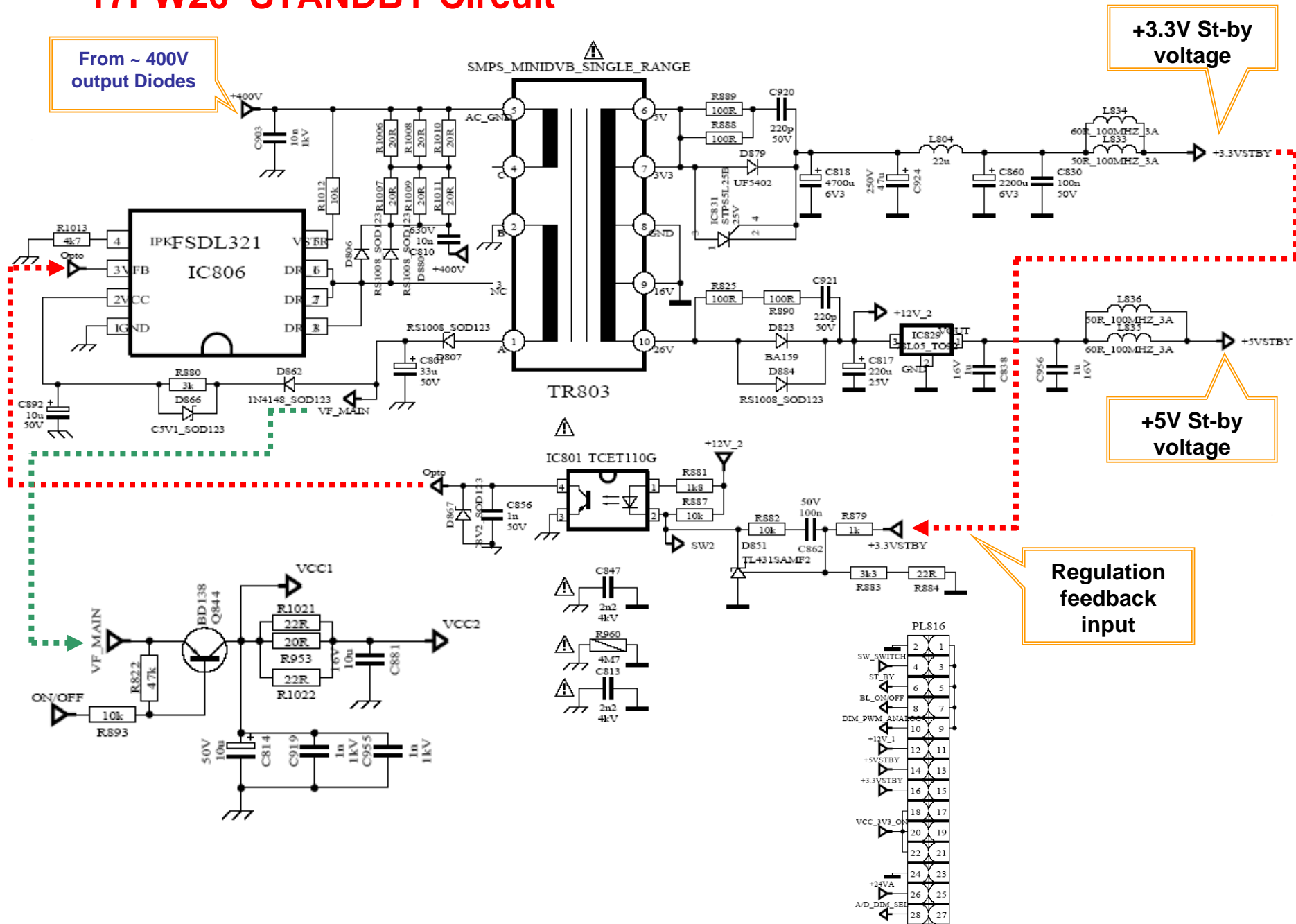
17PW26 STANDBY Control Circuit



17PW26 STANDBY Control Circuit



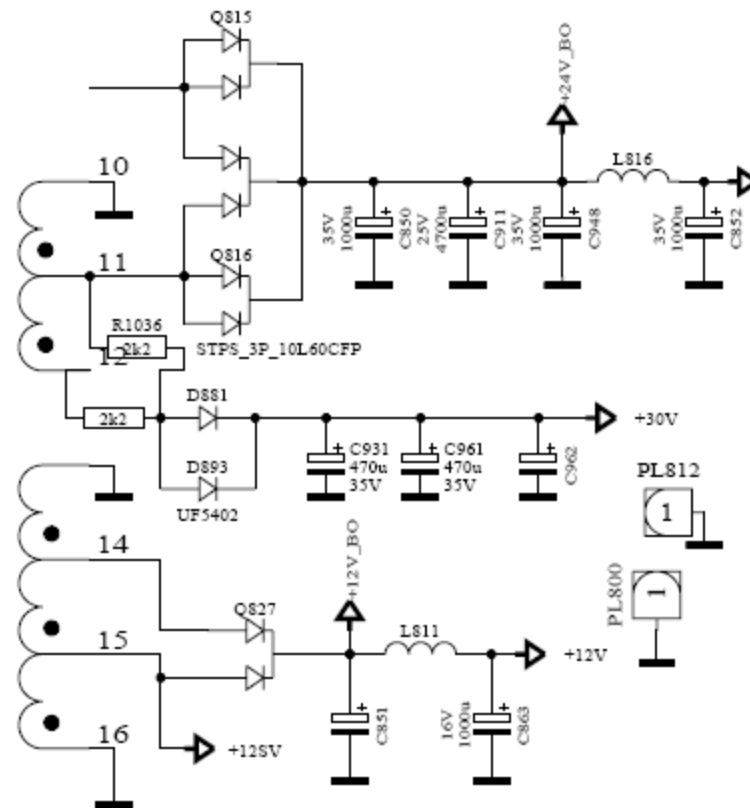
**From ~ 400V
output Diodes**



17PW26

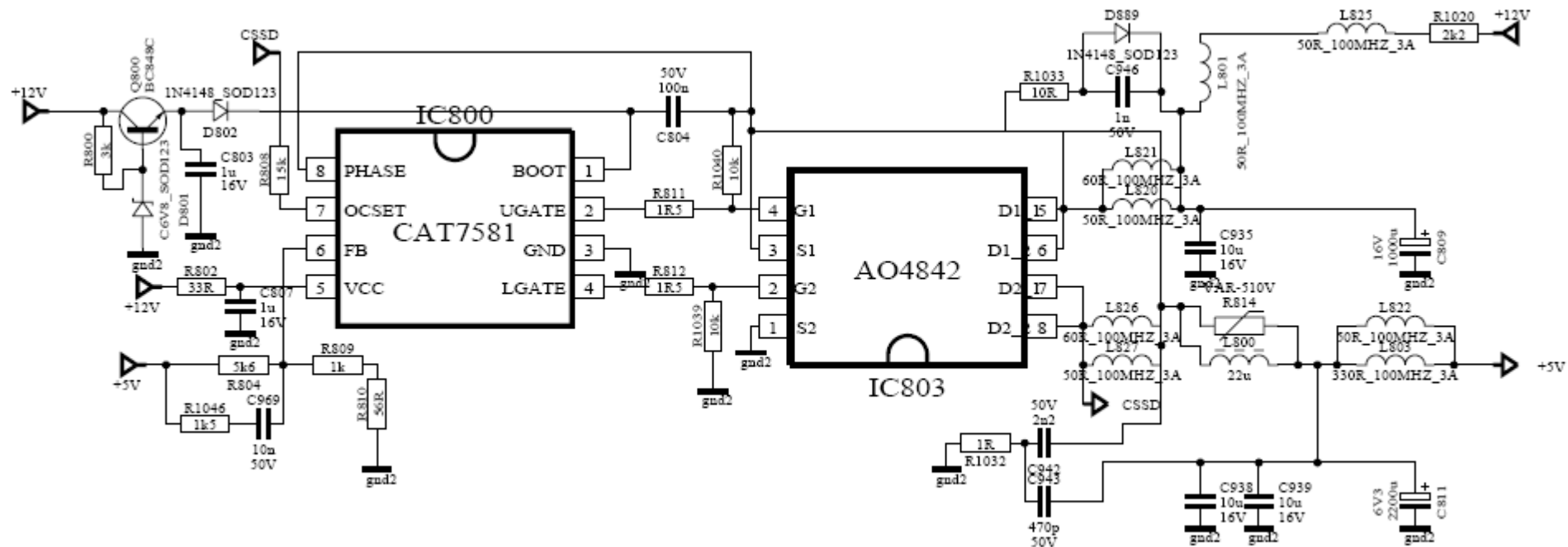
DC Output Circuit

- Generating 24V and 12V supply voltages



5V Vcc Circuit

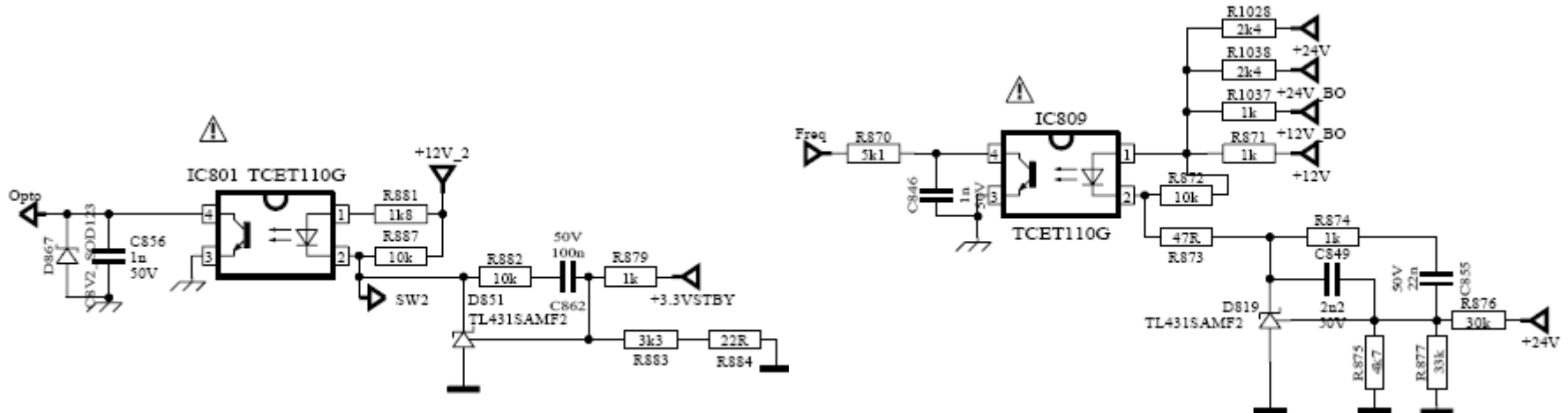
- Generating 5V Vcc voltage from 12V via Step-Down circuit



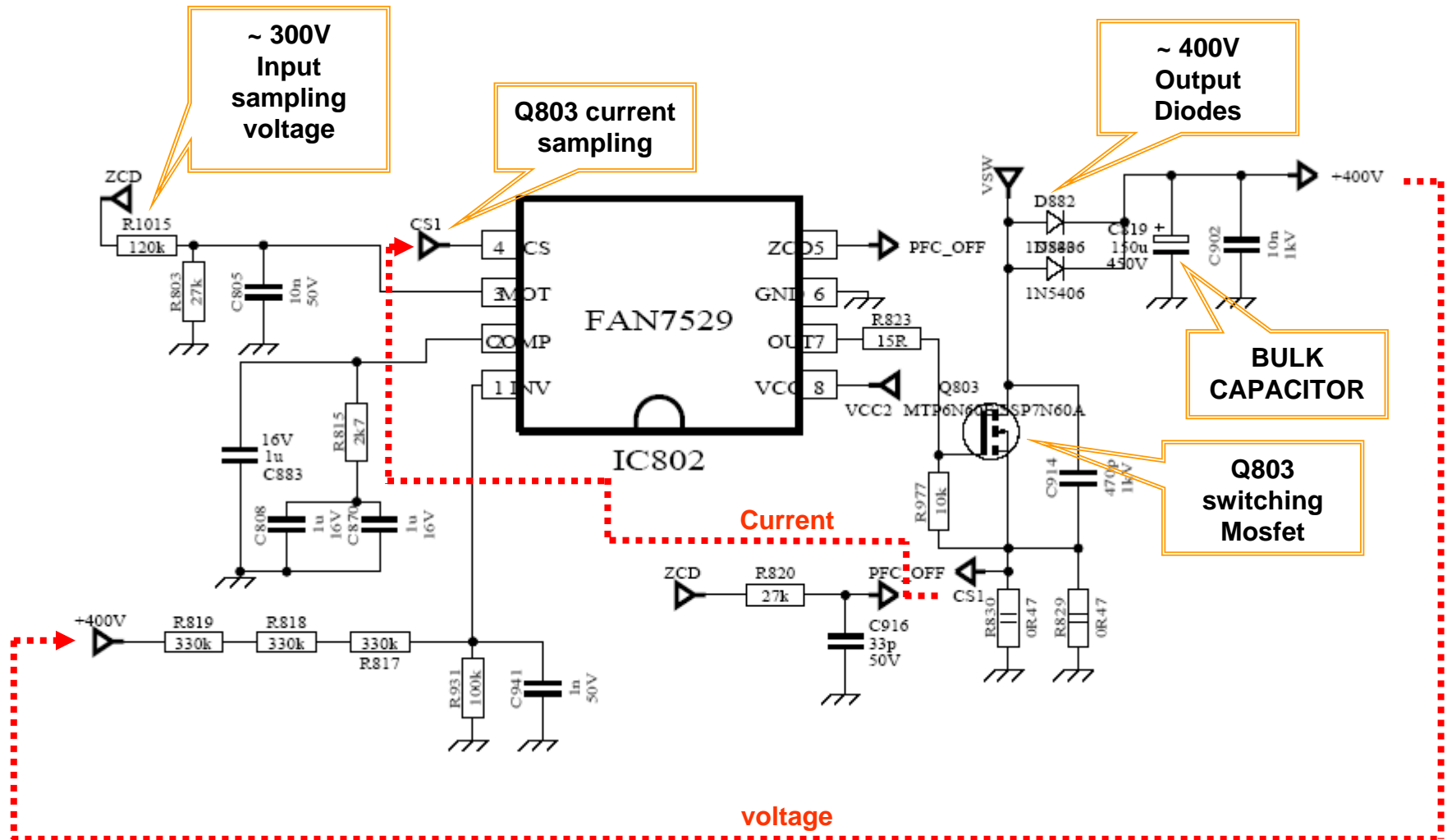
17PW26

Feed Back Circuits

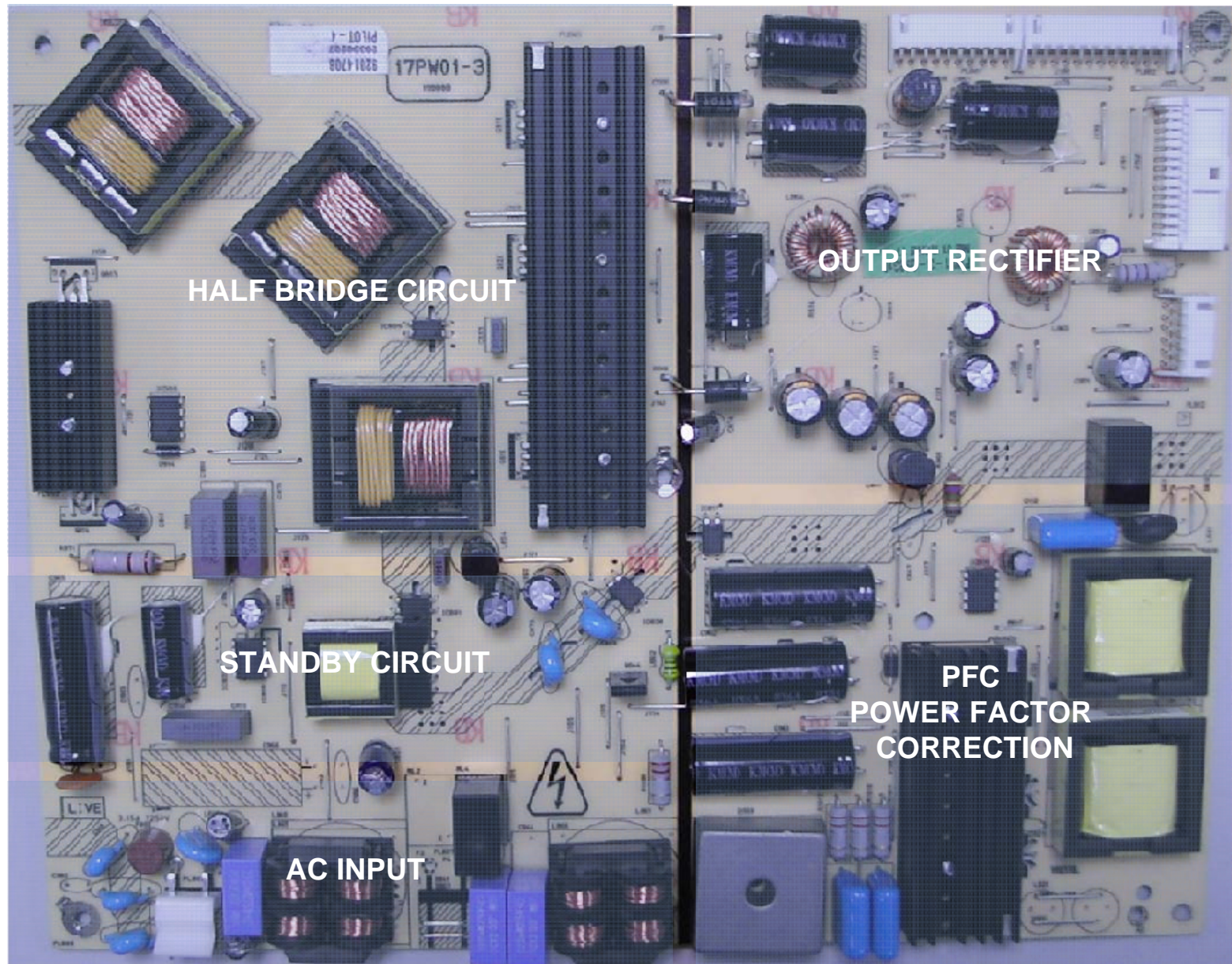
- St-by circuit take feedback from **+3.3VSTBY**,
- Half Bridge circuit take feedback from **+24V**



17PW26 PFC “POWER FACTOR CORRECTION”



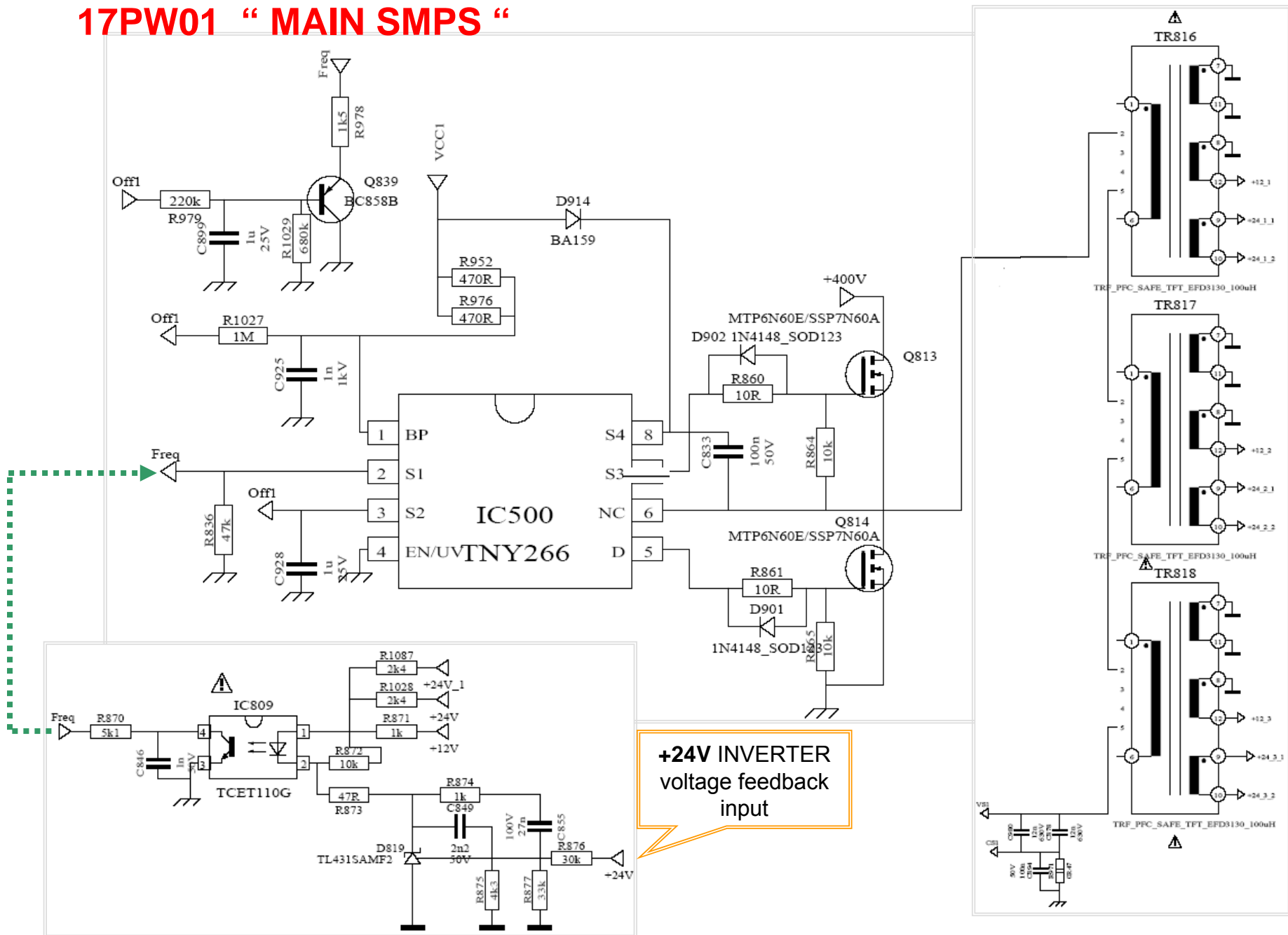
17PW01



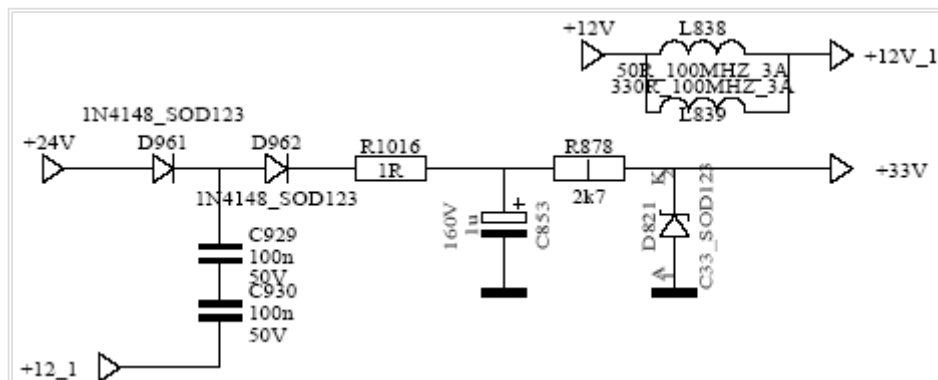
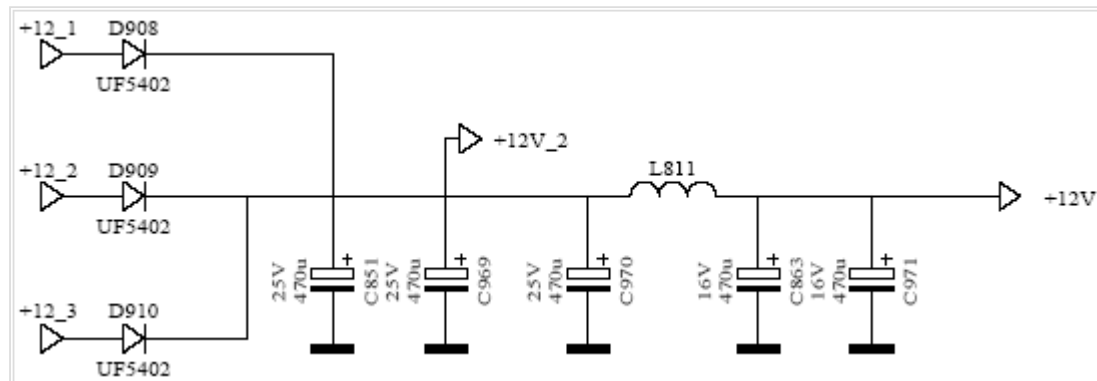
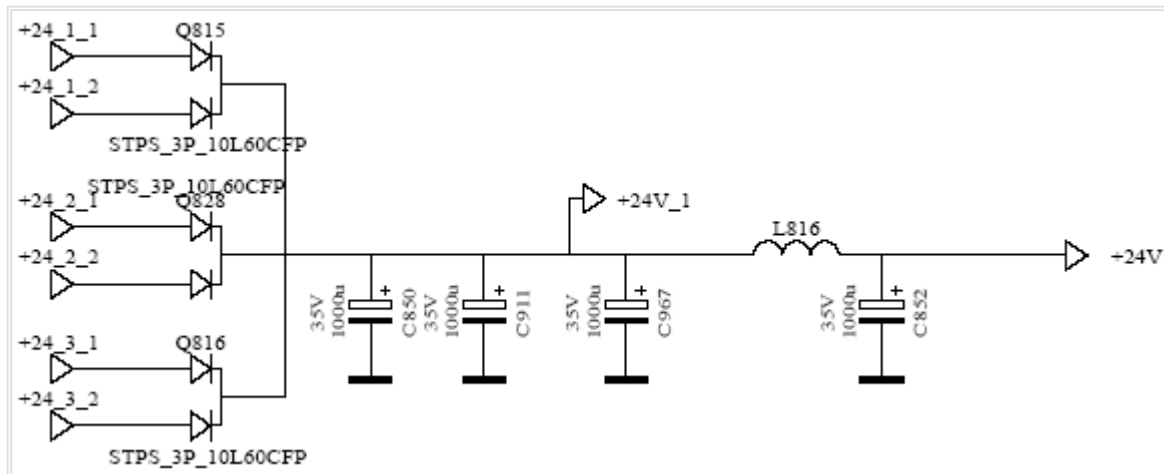
GENERAL FEATURES:

- 42" SLIM PSU
- Output Power : 230W
- Output Voltages ; 3.3V, 4.2V, 5V, 12V, 24V, 33V
- Supported chassis : 17MB35
- Input voltage limits : 170-270V AC
- 150mW standby power consumption
- Similar circuit using with [17PW26](#)

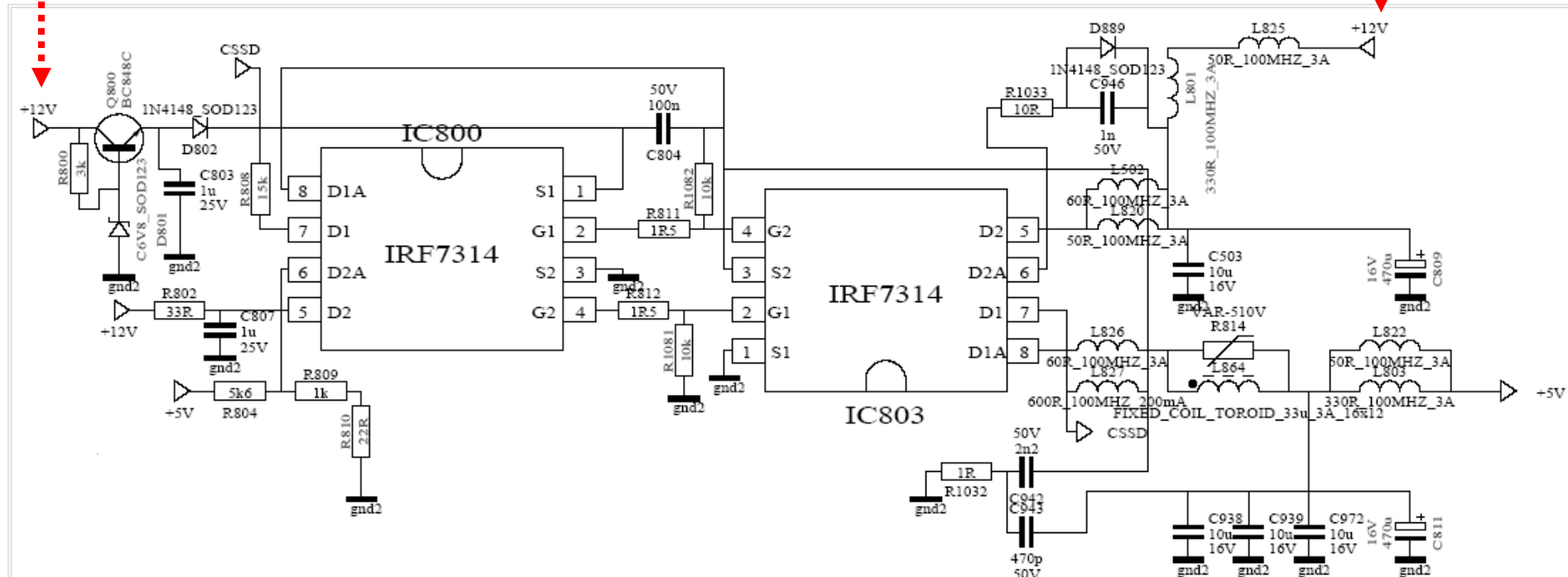
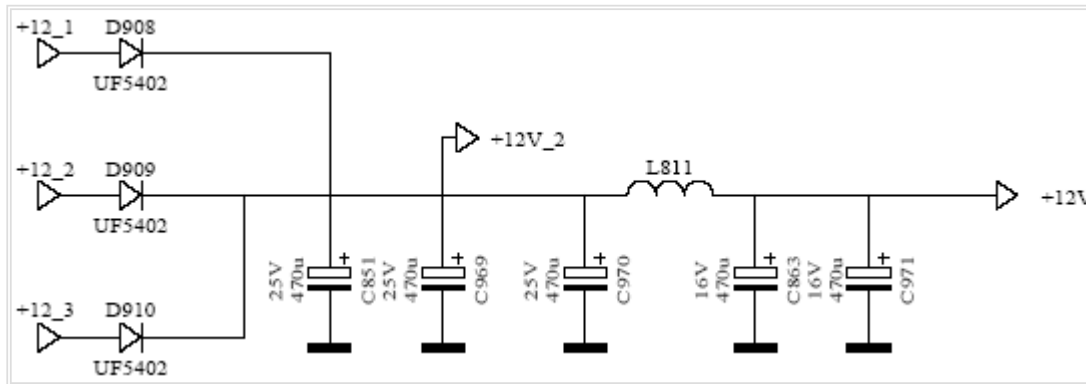
17PW01 “ MAIN SMPS “



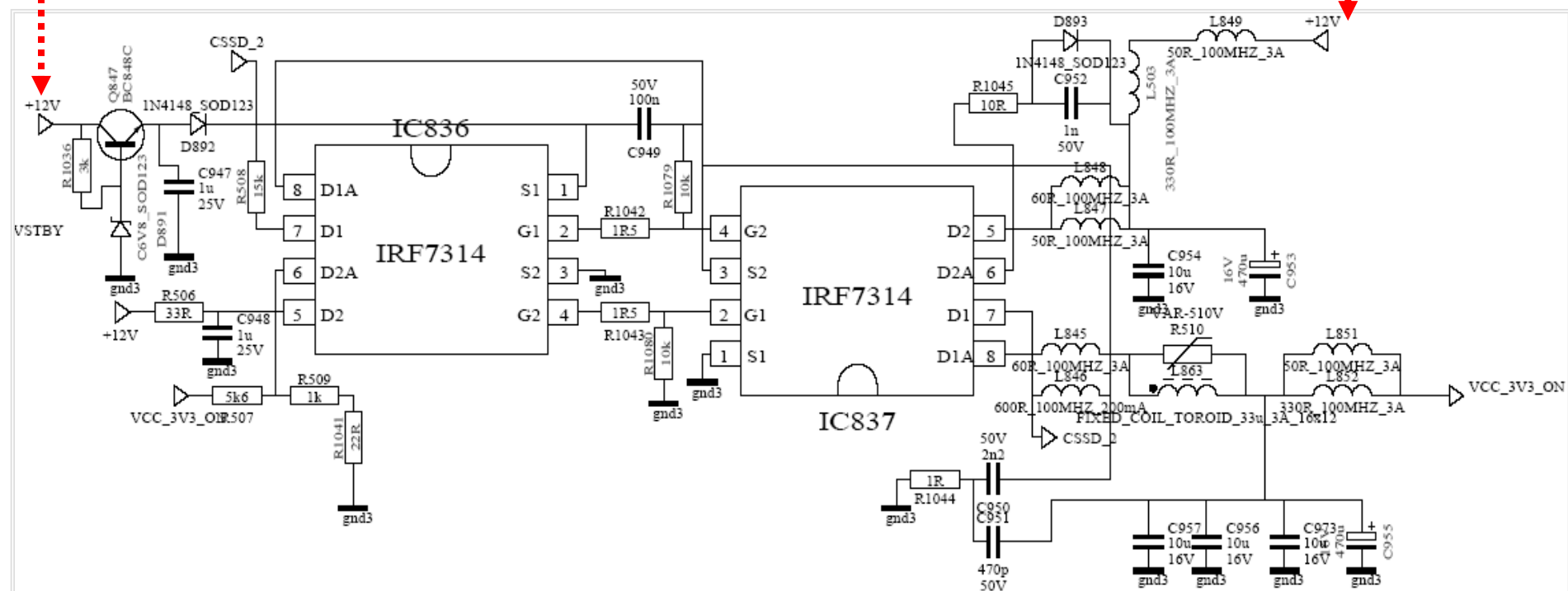
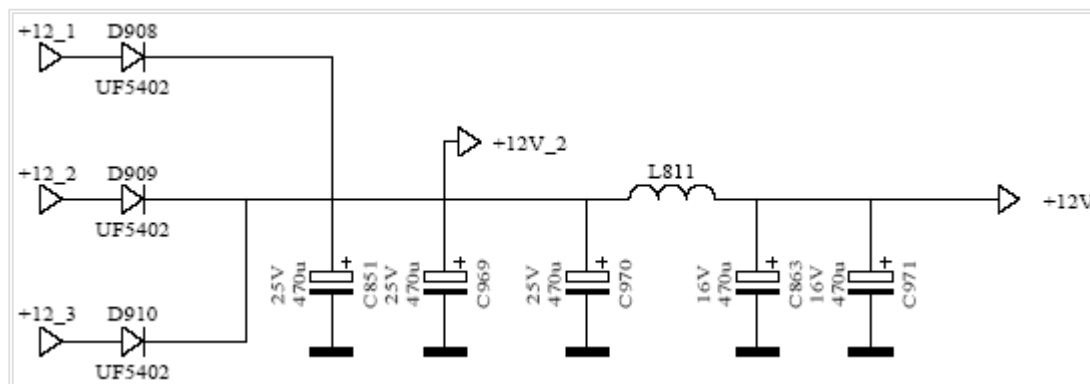
17PW01 “ DC Output Voltages “



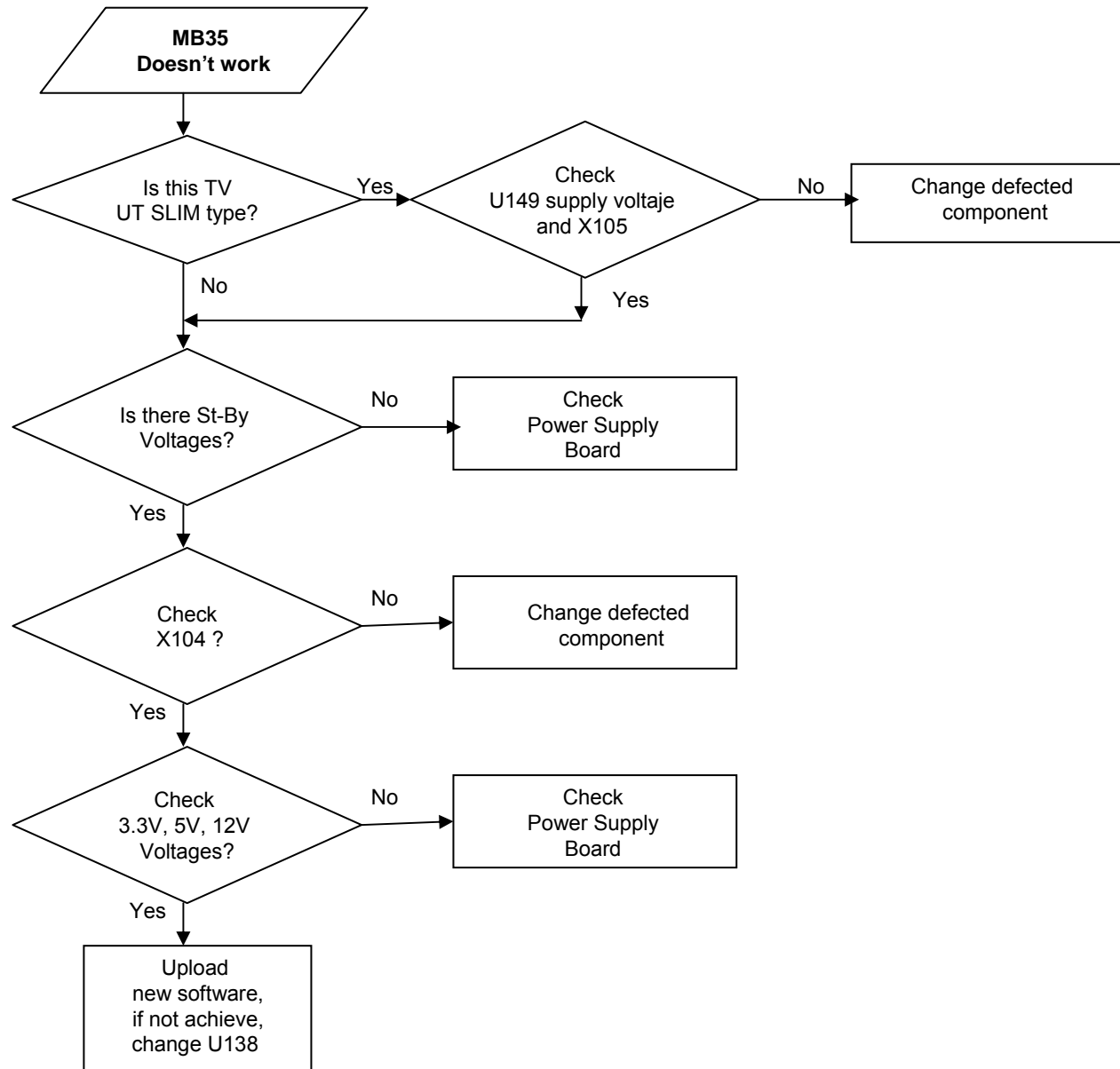
17PW01 +5V Circuit



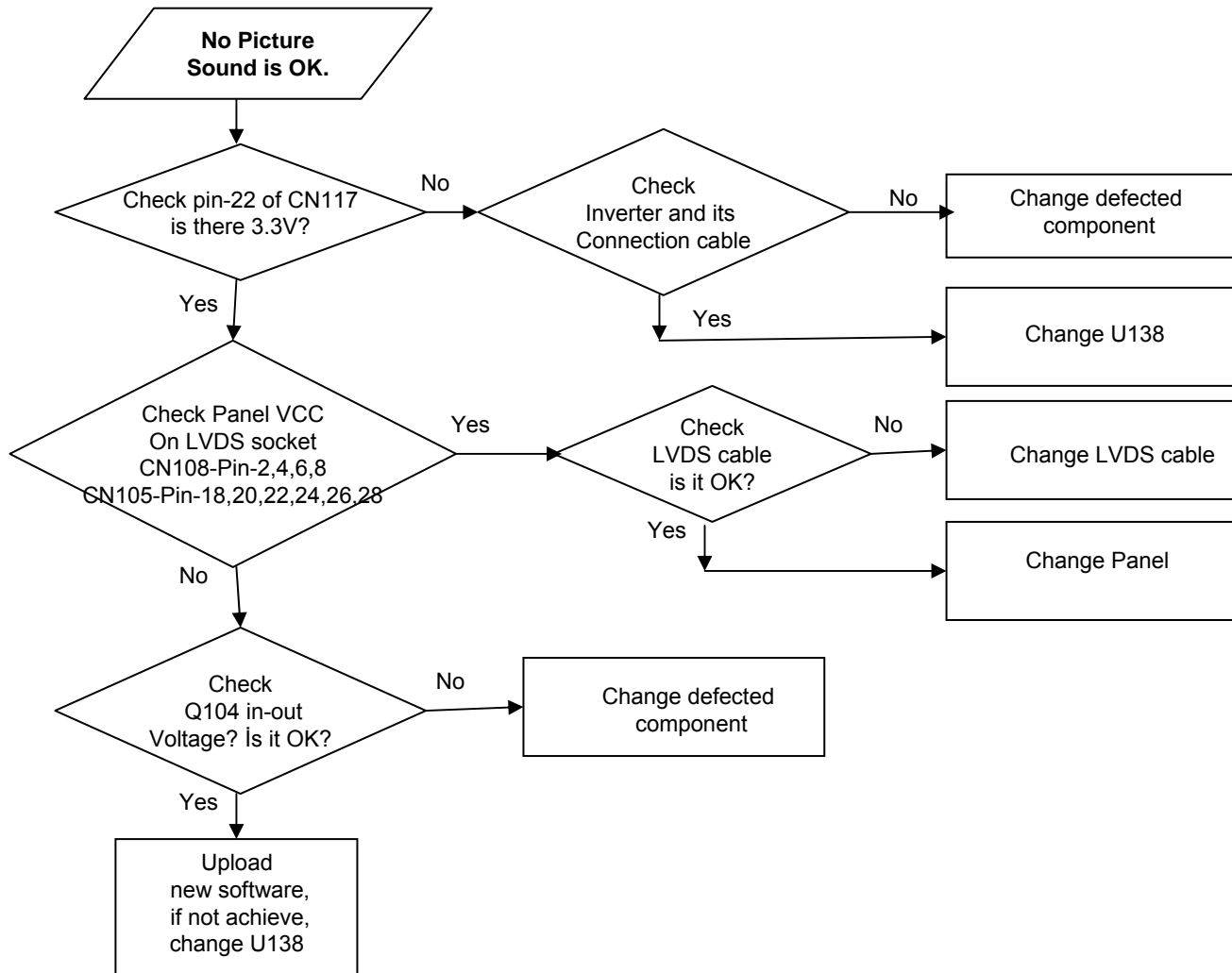
17PW01 VCC_3V3_ON Circuit



17MB35 Trouble Shooting “Flowchart”



17MB35 Trouble Shooting “Flowchart”



17MB35 Trouble Shooting “Flowchart”

