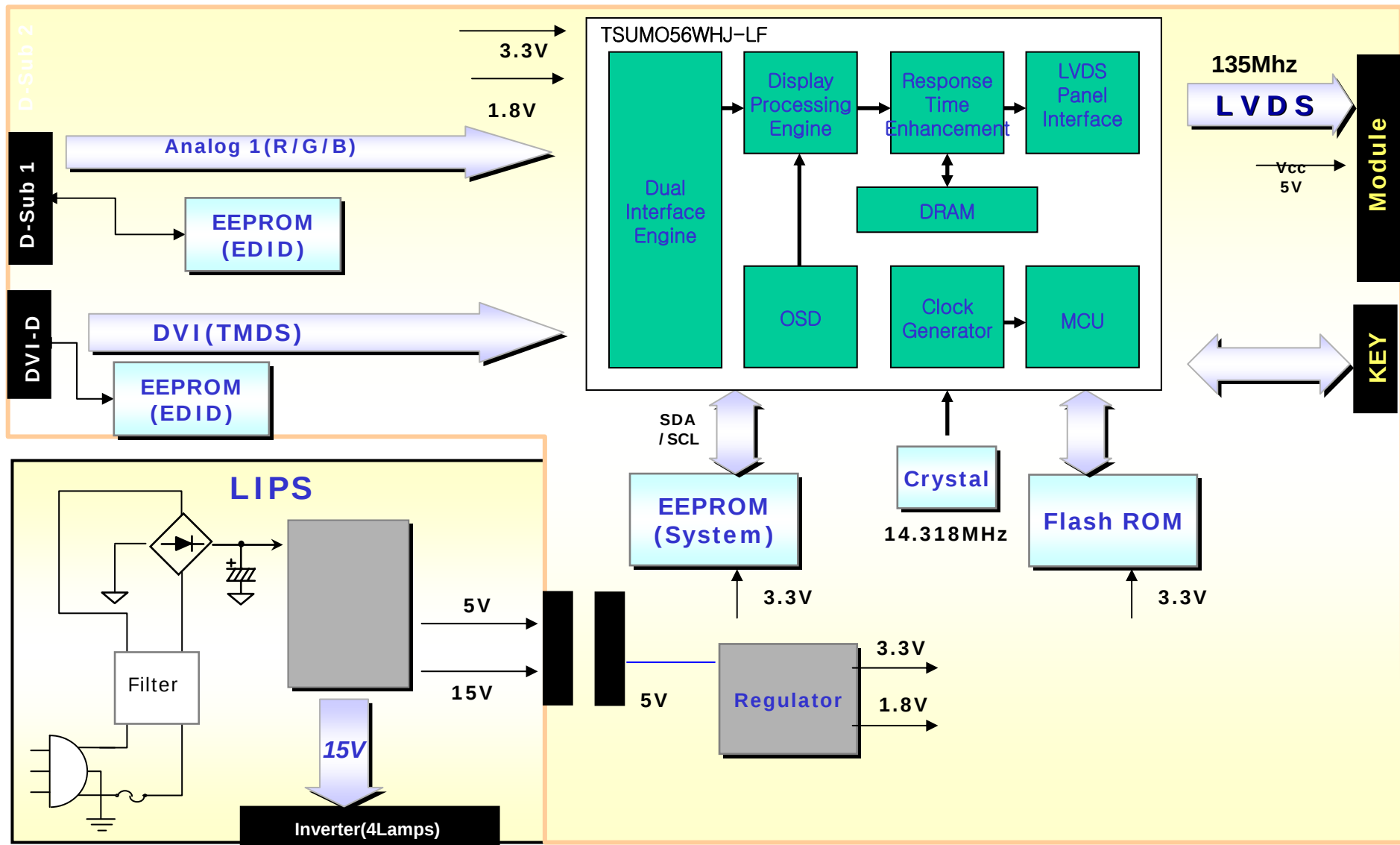


APPENDIX D
: BLOCK DIAGRAM

Block diagram(회로)



Crystal Location No : X501

DESCRIPTION OF BLOCK DIAGRAM

1. Video Controller Part.

This part amplifies the level of video signal for the digital conversion and converts from the analog video signal to the digital video signal using a pixel clock.

The pixel clock for each mode is generated by the PLL.

The range of the pixel clock is 25MHz to 135MHz In L1972H.

This part consists of the Scaler, ADC convertor, TMDS receiver and LVDS transmitter.

The Scaler gets the video signal converted analog to digital, interpolates input to 1280X1024 resolution signal and outputs 8-bit R, G, B signal to transmitter.

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2. Power Part.

This part consists of the one 3.3V, and one 1.8V regulators to convert power which is provided 5V in Power board. 15V is provided for inverter in L1972H.

Also, 5V is converted 3.3V and 1.8V by regulator. Converted power is provided for IC in the main board.

The inverter converts from DC 15V to AC 700Vrms and operates back-light lamps of module in L1972H.

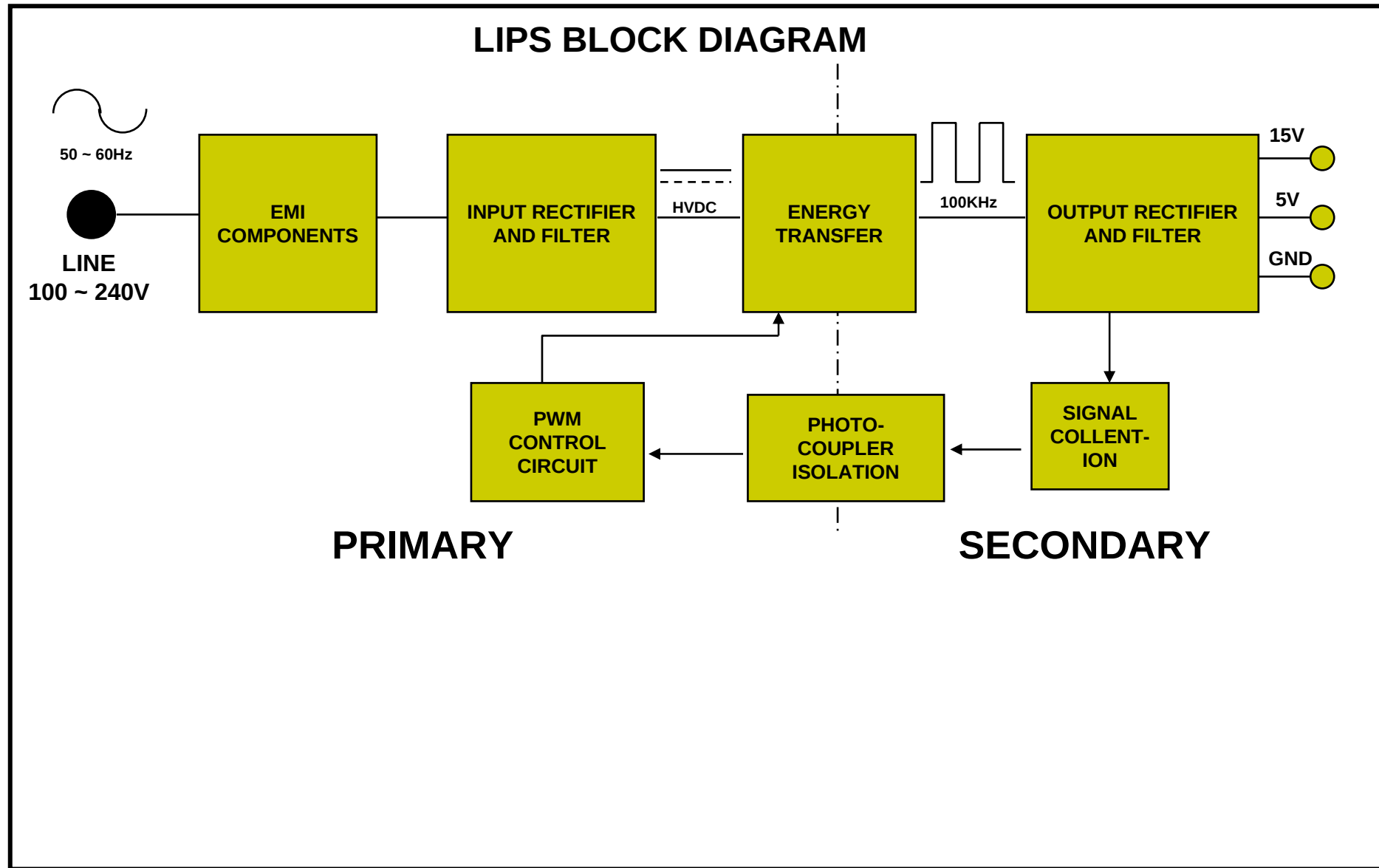
3. MICOM Part.

This part is include video controller part. And this part consists of EEPROM IC which stores FRC(OD) memory, control data, Reset IC and the Micom.

The Micom distinguishes polarity and frequency of the H/V sync are supplied from signal cable.

The controlled data of each modes is stored in EEPROM.

Power Board Block Diagram



OPERATION DESCRIPTION OF POWER

1. Electromagnetic waves Block part .
This part is consisted with Circuits of Line Filter, condenser, fuse etc
to satisfy world wide Electromagnetic waves Standard as like FCC,VCCI,CISPR.
 2. Input rectification and Filter part
This part is consisted with Bridge diode, condenser
to change input AC to DC.
 3. Sources Power change equipment
This is part to change Source Power of 1'st to second by using source power Change Equipment.
 4. Output rectification and Filter Part
This is a part to rectify AC source power and make stable DC power.
 5. Photo coupler
For Stability of DC Output,
Change of DC Output is feedback to pulse width settlement equipment.
 6. Feedback part
After Detecting DC output power, For stable of changing DC output
This part is feedback to 1'st part through Photo Transistor.
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