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### Version History

- **P01:** REVISION HISTORY
- **P02:** BLOCK DIAGRAM
- **P03:** POWER TREE
- **P04:** DDR3 16X2
- **P05:** CPU
- **P06:** PMIC
- **P07:** EMMC
- **P08:** AUDIO
- **P09:** USB/T-CARD
- **F10:** CAMERA
- **F11:** LCD
- **F12:** Euler e Connector
- **F13:** HDMI
- **F14:** LED POWER
- **F15:** WIFI+BT
- **F16:** CTP/IR
- **F17:** Pi-2 Connector
- **F18:** ENAC/GMAC
- **F19:** ENAC/GMAC

**SOPINE Baseboard “Model A”**
LPDDR3 32X1
When insert HP, pins 4 and 3 is connected, when pull out HP, pins 4 and 3 is disconnected.

Note2: When insert HP, pins 4 and 3 is disconnected, when pull out HP, pins 4 and 3 is connected. Mount R100 3.3K.

connect to GND and close to HP jack

≥ 8mil

4-pin 2x2 Male Connector
The ESD part's parasitic capacitance < 5pF.

Differential pairs
Z0= 90 ohm

USB-DP
USB-DM
USB0-DM
USB0-DP
USB1-DM
USB1-DP
USB-VBUS
USB-5V

USB0-VBUS
USB1-VBUS

USB0-DM5,6
USB0-DP5,6
USB1-DM5,6
USB1-DP5,6

The ESD part's parasitic capacitance < 5pF.

The ESD part's parasitic capacitance < 5pF.
Differential pairs

Z0 = 100 ohm

Max 1mA

Max 500mA
**Title:** SOPINE Baseboard "Model A"

**LED POWER**

**Backlight**

- **Components:**
  - **Resistors:**
    - R116: 47K
    - R19: 4K7
    - R92: 4.7uH/800MA
    - R91: 4K7/1%
    - R90: 4K7/1%
    - R159: 4K7/1%
    - R163: 47K
  - **Capacitors:**
    - C258: 0.1uF/25V
    - C264: 0.1uF/25V
    - C256: 0.1uF/25V
    - C260: 0.1uF/25V
    - C182: 1nF/5%
    - C183: 22uF
    - C184: 10uF/30V
  - **Inductors:**
    - L9: 4.7uH/400MA
  - **Diodes:**
    - IN5819SLSOD123
  - **Integrated Circuits:**
    - U28: LP3315
    - U24: SS6635

**Miscellaneous:**

- Removed D18/D20
**Note 1:** The Trace length between GL1 and Pin 48 must be within 0.5 cm. The trace width from PHY_AVDD33 to Pin 44,45 should be 40mils.

**Note 2:** The Trace length from C56, C57 to Pin 44,45 must be within 0.5 cm.

**3.3/2.5V RGMII Power**

For EMI GC27, GC28 must close to pin 15 and pin 21.

**100 ohm**

**External Power Source**

U10, GC68, GC69, GR146(NC), GR122(NC), GR121 are only used by 8211CN/8211DN/8211EN application when switching regulator is disabled. For other applications, please remove them.