



Meridian Schematic Checklist

DRAFT – 6 April 2008

Power Supply

- Verify voltage for Meridian is at least 4.3V and supply is clean
- Verify no more than 100mA is drawn from the 3.3V supply
- Verify caps placed close to 5V input on Meridian – 10uF and 100nF

Reset

- Check switch in place
- Check Reset out used to drive an on-board peripherals
- Include GPIO option for RESET on peripherals for prototyping – this allows manual reset if required

LCD

Most of the following are general checklist items, and not Meridian specific.

- Ensure correct voltages are generated for LCD
- Ensure that there is sufficient control over the power rails to ensure correct power up/down sequencing
- Ensure sufficient timing signals are available to drive the LCD – some may require external timing controller
- Verify LCD colour lines are wired correctly. Check this with the i.MXS data sheet.

USB

- 22pF caps on Meridian side
- 27R inline following this
- Transient suppressor in-line after this. Recommend SN75240PW.

Serial

- Signals from one of the UART ports must be available for boot-mode recovery

Boot Mode

- Ensure jumper exposed

JTAG

- Ensure availability of the JTAG signals for high-speed programming
- 1k5 pull-down on TCK

I2C

- Ensure SDA and SCL have pull-ups if I2C is used (4k7)