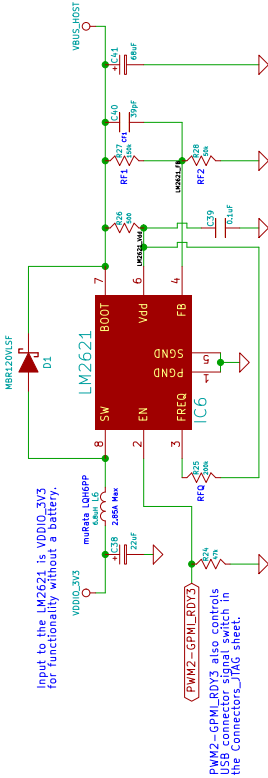


Notes:

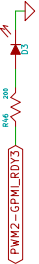
- Capacitors are X7R, 6.3V, 20% or better unless otherwise noted
- Tantalum capacitors should have ESR < 300mOhm
- VDDIO, VDD, VDDA should have 33uF of decoupling, and LPF >1MHz per IMX23RM 32.2.1.1
- Power Supply Designed to Freescale AppNote AN3883 recommendations

USB Host Mode VBUS Generator

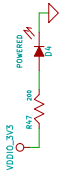


The LQ486P meets the 2.5A inductor current limit of the LM2621. It also meets the typical (2.85A) internal current limit. However, it does not meet the maximum internal current limit of the LM2621 (4A), which can occur at high temperature during a short of USB-A VBUS+GND.

Debug/Host Mode Enabled LED



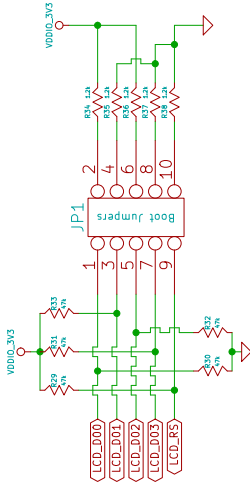
Power ON LED



Boot Mode

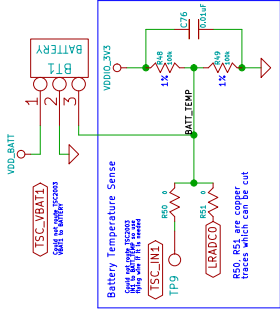
Boot Mode Selection

Boot Mode	LCD_Data
USB	3 2 1 0
I2C Master (AUART)	0 0 0 1
SPI SSP1 Flash	0 0 1 0
SPI SSP2 Flash	0 0 1 1
GPIM (NAND)	0 1 0 0
DEBUG (JTAC_WAIT)	0 1 1 0
SPI SSP2 EEPROM	1 0 0 0
SD/MMC 1	1 0 0 1
SD/MMC 2 (Default)	1 0 1 0

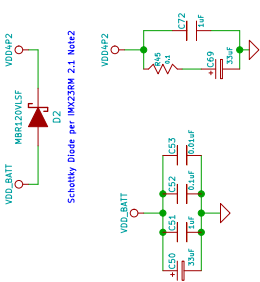


Default Boot is SD/MMC2, the captive microSD card. Jumpers can be mounted to alter the default setting. LCD\_RS High enables jumper boot. LCD\_RS Low enables OTP boot.

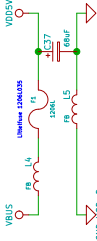
Li-ION Battery



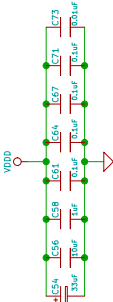
Power Supply Decoupling



USB-miniB Power Input



USB-miniB VBUS supplies power for USB devices charging as well as board power.



ETM Disabled as LOFP version does not support it.



Opendous Inc. (www.opendous.org)

File: PROpendous-Power\_Boot.sch

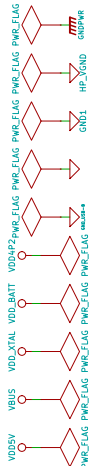
Sheet: /Power\_Boot/

Title: PROpendous

Size: A4 Date: 26 apr 2010

KiCad E.D.A.

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LM2621-FB

LM2621-FB