REV BY Description DATE 1. Improved layout for the USB PHY. 2. Removed unused parts from the design. 3. Added current measurement function to the TWL4030. 8/14/08 GC 4. Added filter caps to the VBUS rail input and output. 5. Changed U9 & U11 package to the QFN..

1. Added J12 and J13 to provide access to the RGB TTL signals on the LCD. 2. Added 5 filter caps.

3. Moved the USB Host port from Port1 to Port2. 4. Deleted R1.

5. Added 10K pulldown to USB reset signal. 6. Added 10K pulldown resistors as ID function to determine board type by reading these pins.

7. Added series resistor, R53, in the CLK line of the HSUSB clock line. May be removed after testing.

1. Moved the McBSP3 DX signal to pin AB26. 2. Moved the McBSP3 DR signal to pin AB25. 3. Moved the McBSP3\_CLKX signal to pin AD25.

4. Changes were to allow access to three PWM signals from OMAP3530.

1. Added series resistor to BKBAT.

C3A

C3B

C4A

C4B

2. Added TP to BKBAT to allow access for battery.

3. Added a 47pf CAP and 3.3uH inductor to the S-Video feedback resistors.

1. Switched to TPS65950 based on the availability of the parts.

2. Made the battlery an installed component. Removed parallell resistor.

1. Corrected J4 and J5 symbol for the RGB interface. No electrical changes were made.

2. Removed battery as an installed component due to availability issues.

1. Added C141, 22uF in parallell with C97.

2. Added option to allow the USB PHY and CLKOUT to be powered from the VIO 1V8 rail or the 10/5/2009 GC

VAUX2 rail from the TPS65950. Default is VIO 1V8 rail.

3. Changed 1.8V filter CAP on USB PHY to 22uf.

4. Made R113 a DNI and installed R112.

11/5/2009 GC 1. Made R67 an installed inductor and made R68 a DNI. Switched to LDO powered EHCI USB Ph

1. Made R112 as a install and a value of 510 ohms.

2 Made R113 a DNI

12/15/2009

CONTENTS PAGE NO. SCHEMATIC PAGE 1 **COVER PAGE** 2 USB OTG CONNECTOR AND MAIN POWER 3 OMAP3 1 OF 3 4 OMAP3 2 OF 3, JTAG, SWITCHES, LEDS, SVIDEO 5 **OMAP3 3 OF 3** 6 TPS65950 1 of 2, AUDIO JACKS, LED, 26MHZ, 32KHZ

7 TPS65950 2 of 2. Power Rails 8 USB HOST AND EXPANSION

10 DVI-D

9

This schematic is \*NOT SUPPORTED\* and DOES NOT constitute a reference design. Only "community" support is allowed via resources at BeagleBoard.org/discuss.

SD/MMC, SERIAL HEADER

THERE IS NO WARRANTY FOR THIS DESIGN , TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE DESIGN "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE DESIGN IS WITH YOU. SHOULD THE DESIGN DESIGN PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

> beagleboard.org Beagle-Cover Page Size | Document Number Rev C4B 450-5000-001

4

10/1/08

12/16/08

2/11/2009

4/21/2009

4/30/2009

GC

GC

GC

GC

GC

GC

Date: Tuesday, December 15, 2009 Sheet

of 10

5

3

















