	REV	5 DESCRIPTION 4	DATE	в у ³
		FEATURE CHANGES 1. Added 4 port LS/FS/HS HUB to provide four USB Host ports. 2. Made connection for the 1.8V rail on the USB PHY to go to VAUX2. 3. Added camera connector that is compatible to the Leopard Imaging Camera modules. 4. Added power rmanagement capabilities to allow shut dowm of serial port, DVI-D, ar power LED. 5. Switched to DM3730 processor and 512MB memory. 6. Added ability to turn off 26MHZ oscillator. 7. Increased overall board size to accomodate the changes. 8. Changed serial connector to a female DB9. 9. Added a 10/100 Ethernet port.	d 12/15/0§) GC
	Α	Second spin of board. Redesigned overvoltage protection scheme. Added slow turn on circuit to USB Host power. Changed power scheme for serial port level translator.	3/13/10	GC
C	A1	Disabled the DVI-D powerdown due to use of wrong GPIO pin. Pin is in the MMC group and it cannot be switched to 1.8V without impacting the SD card slot. Disabled HUB reset due to a timing issue with SW. When active the LAN9514 would not work correctly and the Ethernet function is broken. Removed CAP C212 and C214. Turn on was to slow.	5/13/10	GC
	A2	Deleted C9 and added R34 to enable S-Video.	6/15/10	GC

	CONTENTS
PAGE NO.	SCHEMATIC PAGE
1	COVER PAGE
2	USB OTG CONNECTOR AND MAIN POWER
3	PROCESSOR 1 OF 3
4	PROCESSOR 2 OF 3, JTAG, SWITCHES, LEDS, SVIDEO
5	PROCESSOR 3 OF 3
6	PMIC, AUDIO JACKS, CLOCKS
7	PMIC, POWER RAILS
8	MICROSD, RS232,CAMERA,EXPANSION
9	DVI-D, LCD EXPANSION
10	USB HOST, HUB, ETHERNET

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

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		
Title	BeagleBoard-xM Cover Page		
Size	Document Number		Rev
В	450-5100-001		A2
Date:	Thursday, July 15, 2010 Sheet 1 of	10	
	1		

3

5



















