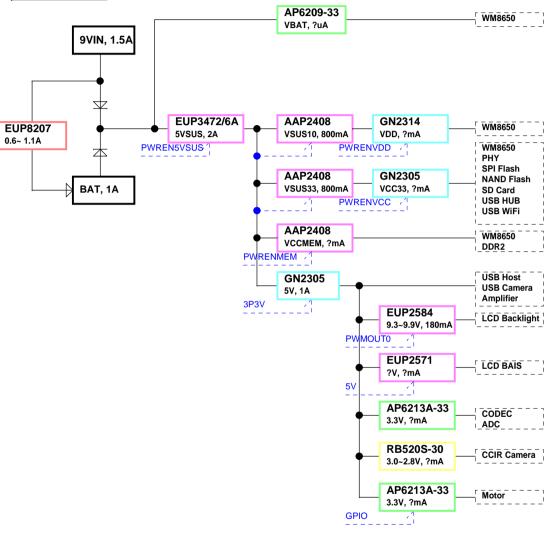
WM8650 7inch MID IO Board

WMS8122A

Power Tree:



配合模具: 宽格 PC802

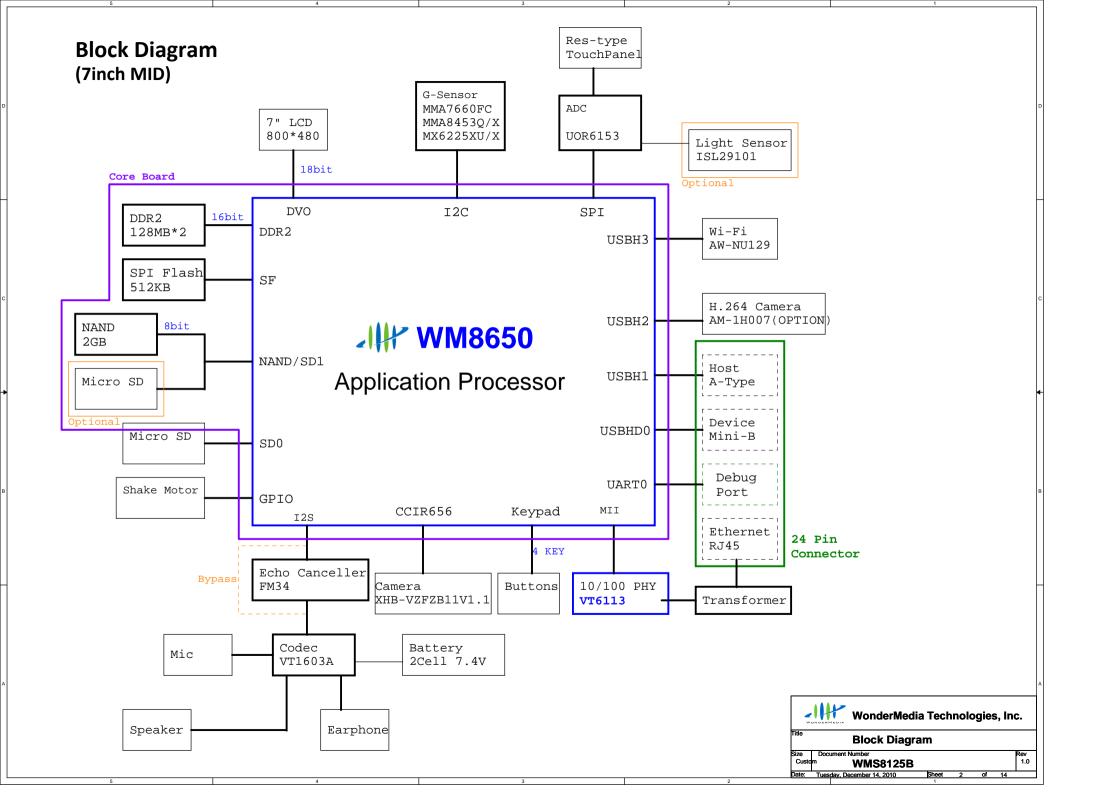
TITLE	PAGE
Cover Page	01
Block Diagram	02
Core Board Package	03
DC-IN and Battery	04
Voltage Regulators	05
MicroSD Card	06
30pin CONN	07
USB WiFi/CCIR Camera	0.8
Ethernet PHY(VT6113)	09
LCD Panel	10
I2S CODEC (VT1603A)	11
G-Sensor & Shake	12
Keypad board	13
Version History	14

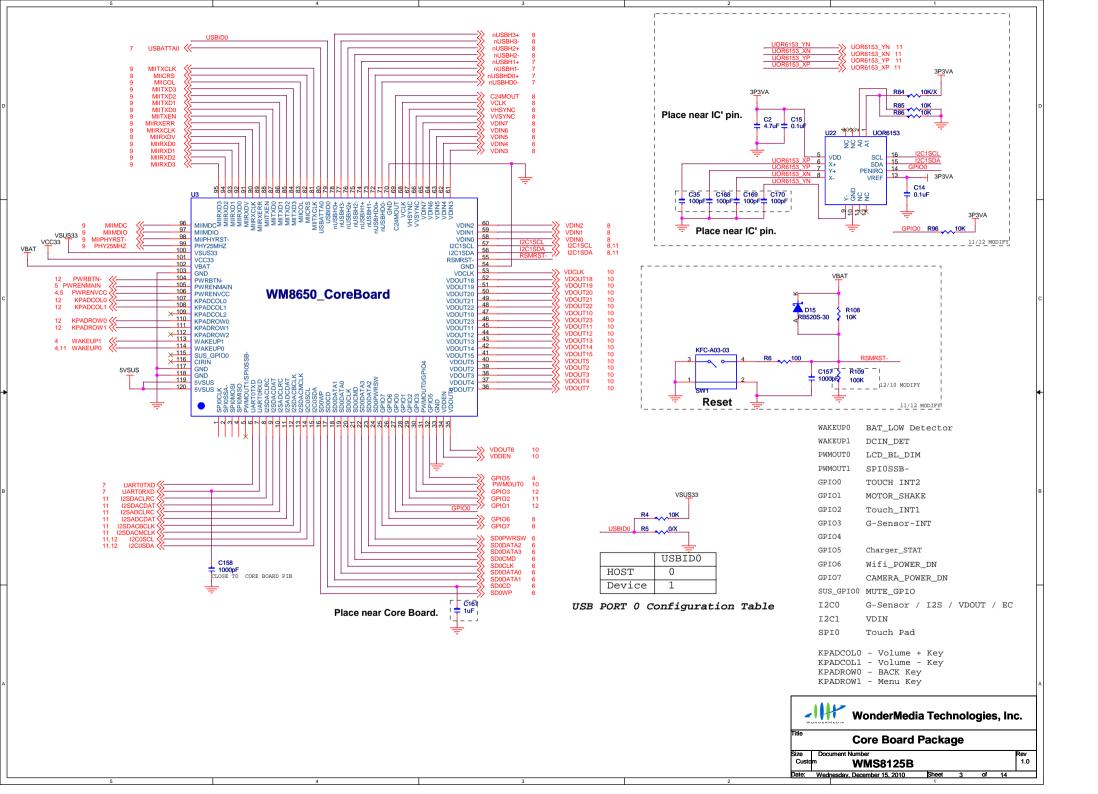
Illustration:

Charger DC-DC LDO MOS-FET DOIDE

Source Load

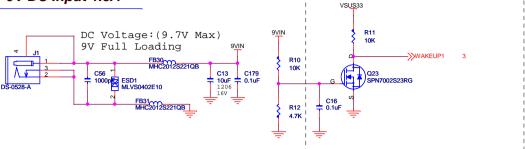
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Size Custo	Documen m	WMS8125B					Rev 1.0
Date:	Tuesday,	December 14, 2010	Sheet	1	of	14	



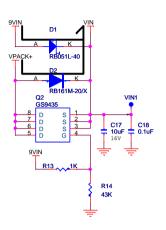


DC-IN and Battery

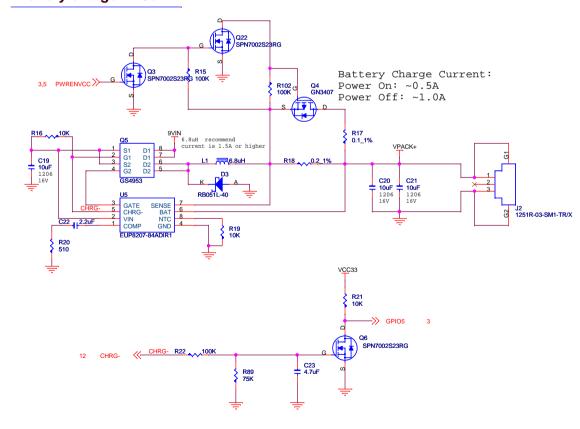
9V DC Input 1.5A



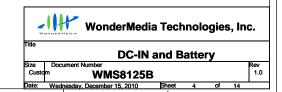
DC Switch



Battery charger 2-Cell



VSUS33 Battery Low Detect: 100K/X VPACK+ WAKEUP0 >>WAKEUP0 R2 30K_1% S-80860CNNB-B9LT2G R3 C1 240K_1% 4.7uF S-80829CNMC-B8OTEG 2.93V 2.93V I OUT 4 NC-1 4 NC-2 VDD S-80829CNMC-B80T2G/X National LM8364BALMF30 3.0V Holtek HT7050A-1 SOT23-5 5.0V Replacement: IC R2 R3 6.78V 5.0V 30K 84.5K 2.93V 35.7K 47K 3.0V 47K 37.4K

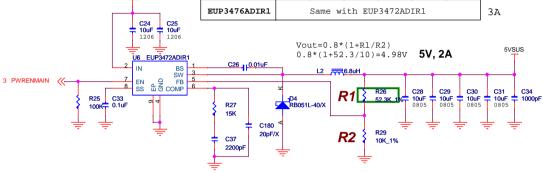


Voltage Regulators

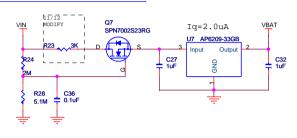


Replacement:

U 6	R26	R29	R27	C37	L2	D4	
RT8272GSP	43K	10K	41K	2.2nF	6.8uH	Yes	3A
LP6482-ASOF	43K	10K	2.2K	3.3nF	10uH	NA	2A
EUP3476ADIR1		Same with EUP3472ADIR1					3A



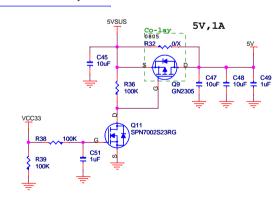
VIN->VCCBAT 3.3V 10uA

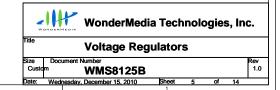


5VSUS->3.3V 800mA

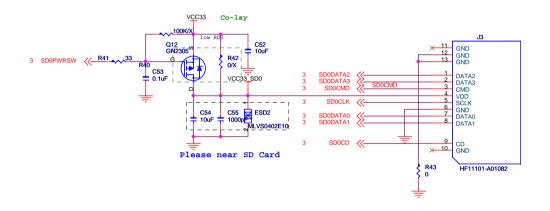
Vout=0.6*(1+R1/R2)Q8 GN2305 VCC33 0.6*(1+453K/100K)=3.3V 5VSUS LX GND EN C38 4.7uF C42 R33 10K 11/12 Q10 SPN7002S23RG MODIFY C46 0.1uF 100K_1% R/C delay ~ 1ms R37 100K

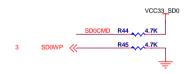
5VSUS->5V, 1A

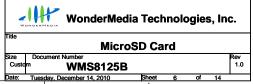




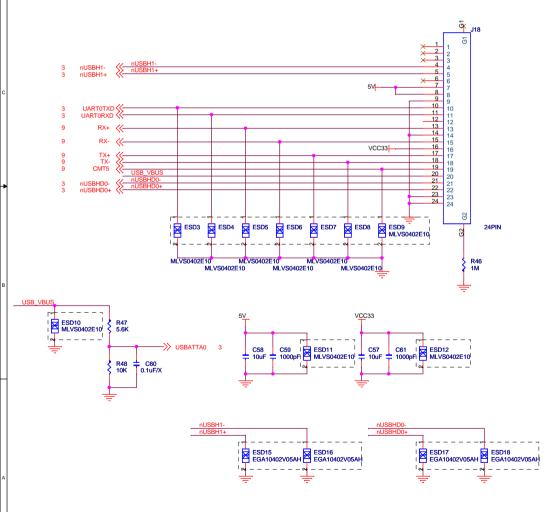
MicroSD Socket









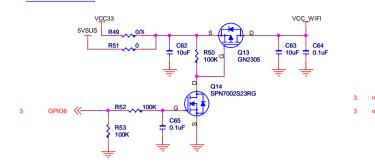


Notice: All ESD components place near 24pin connector.

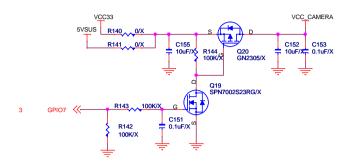
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Title		30pi	n CON	1				
Size	Document	Number					Rev	
Custo	m	WMS8125E	3				1.0	
Date:	Tuesday, De	ecember 14, 2010	Sheet	7	of	14		

USB WiFi/CCIR Camera

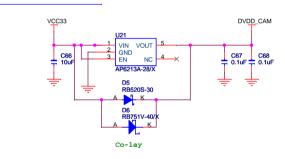
USB WiFi

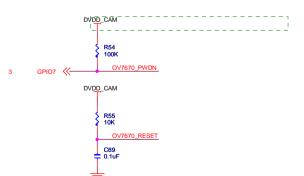


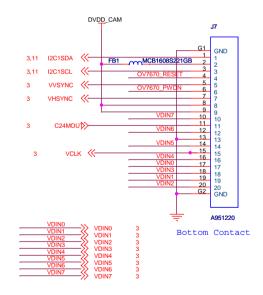
USB CAMERA

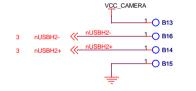


CCIR656 Camera





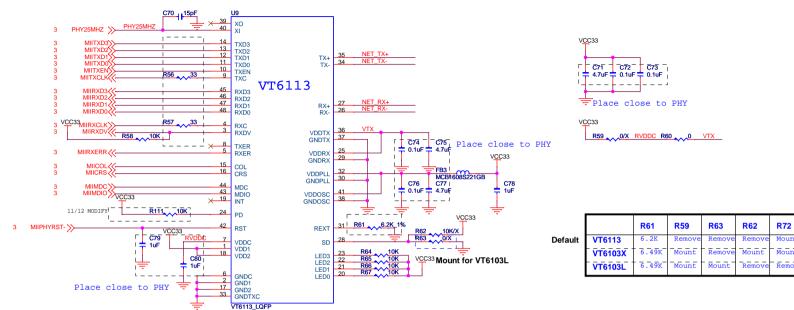


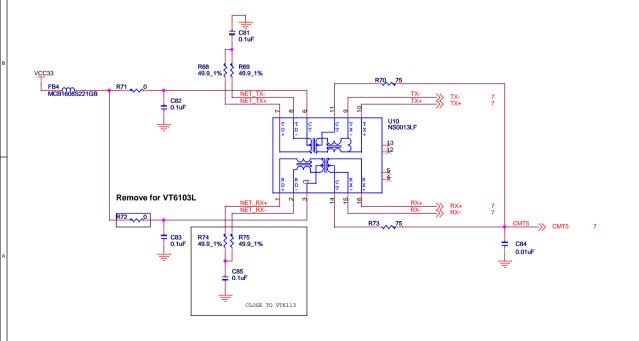


H.264 USB camera for skype
DEFAULT IS CCIR656 Camera



Ethernet PHY



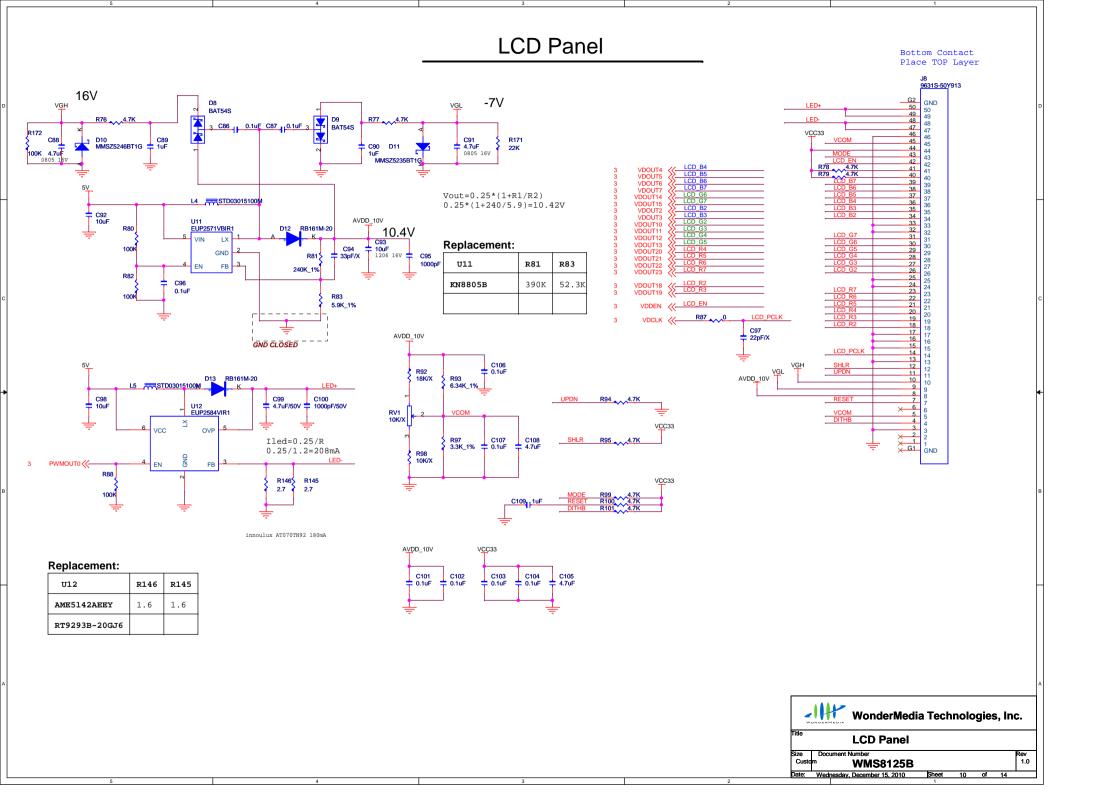


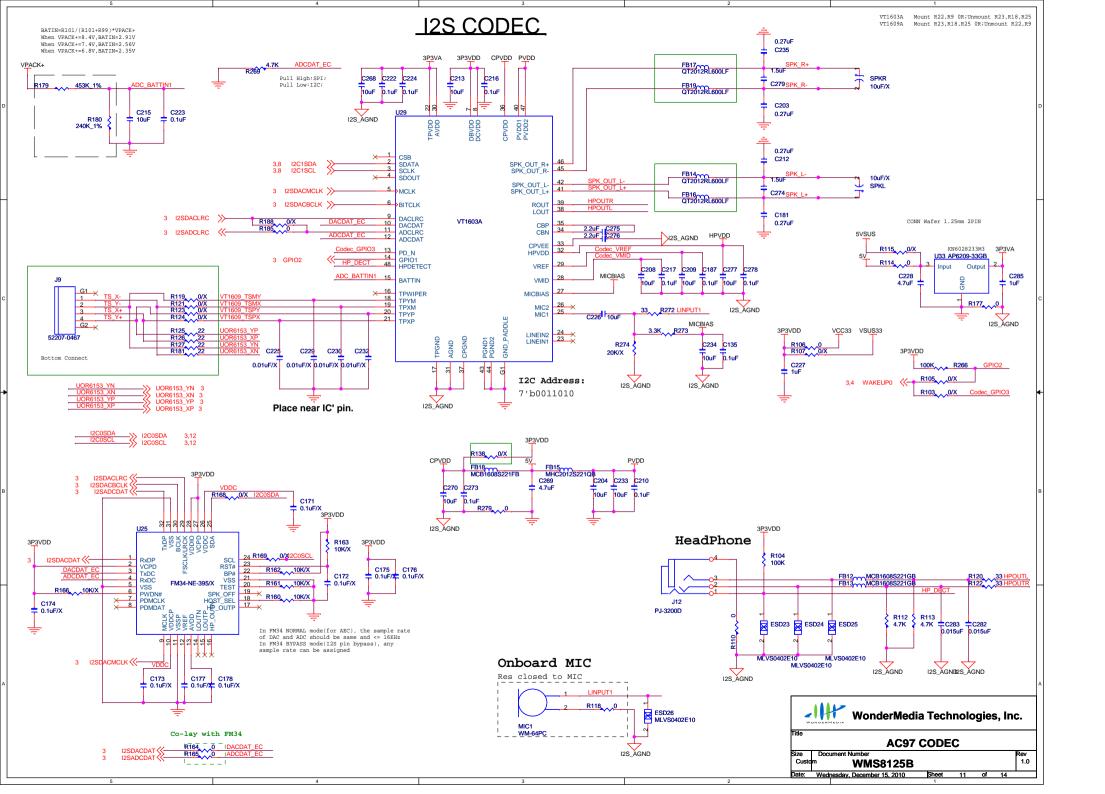
WonderMedia Technologies, Inc.

Title Ethernet PHY

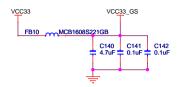
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Date: Tuesday, December 14, 2010 Sheet 9 of 14

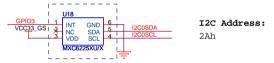




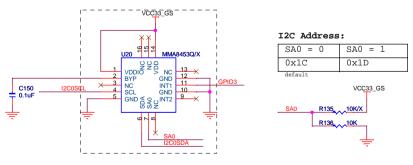
G-Sensor & Shake



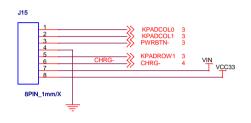
摆放时务必注意G-Sensodr在背对屏幕那面,第一PIN朝屏幕左上角

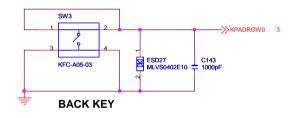


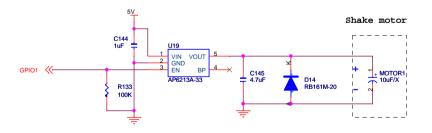
摆放时务必注意G-Sensodr在背对屏幕那面,第一PIN朝屏幕左上角

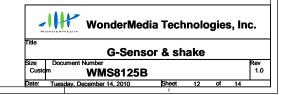


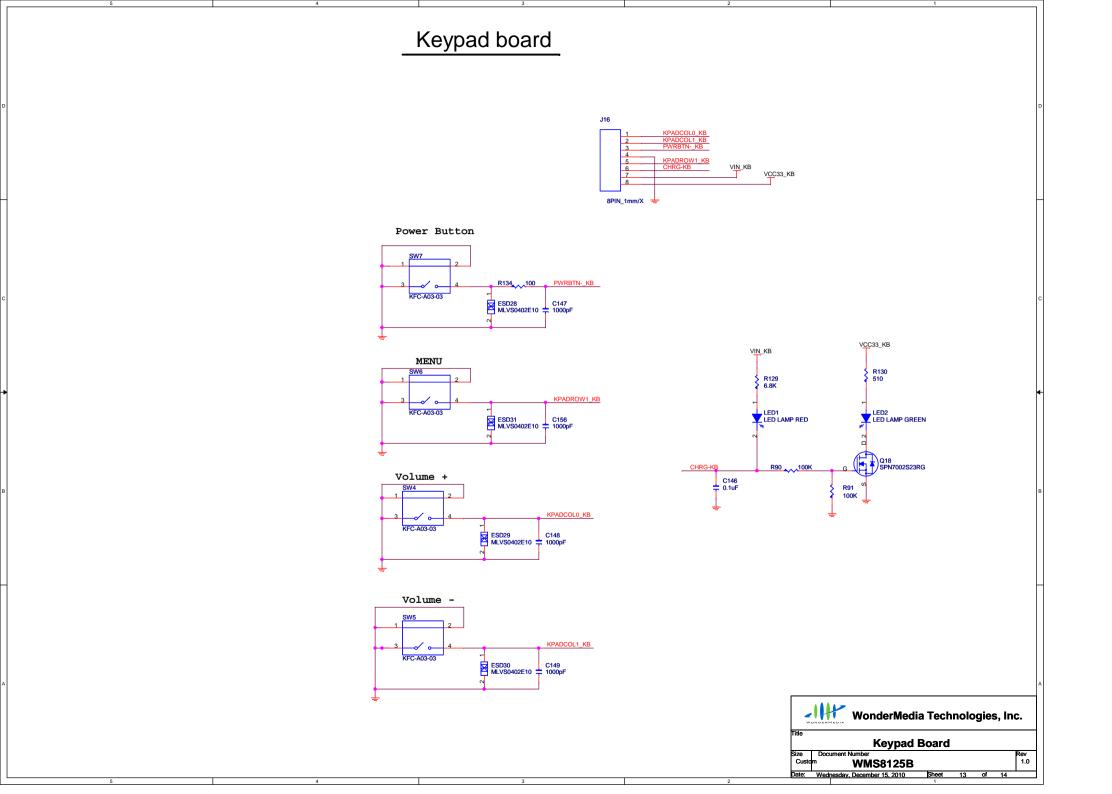
摆放时务必注意G-Sensodr在背对屏幕那面,第一PIN朝屏幕左上角





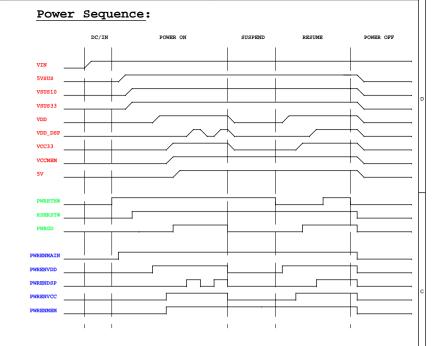






Version History

Version	PAGE	Modify Content	Responsibility	Date
WMS8125A		Initial released.	Xindi Chen	2010/9/21
WMS8125A1	3 4 5 5	1: U24 DUAL POINT TOUCH IC change to UNR6153(U22); 2: c37146 PIN 13 ERF VOLTAGE CHANGE TO 3.3V, 3: ADD REMEST RESET SMITCH: SWI 4: ADD Q23, ISOLATE SVIN and wakupl, reduce the leakage current 5: R23 change to 1.5k, CORRECT VBAT value 6: R35 change to 75k, CORRECT PREENMAIN SIGNAL QUALITY 7: ADD R11, PULL UE V WF6113 PD PIN , 8: CHANGE MUTE CIRCUIT,	Xindi Chen	2010/11/12
WMS8125A2		1: ADD C158 IN UARTORXD , FOR COUPLED ISSUE 2: R8 100K CHANGE TO GHM ,CS7146 INT(GPIO2) Change to GPIO0	Xindi Chen	
WMS8125A3	4 3 5 3 4 8	1: ADD R109 100K FOR RSMRST- BOOT STATUS 2: NC R1 100K, Internal pull high 3:R96 100K CHANGE TO 100K 4:R35 75K CHANGE TO 100K 5:NC C6 C7 C8 C12 6:NC Light sensor U23,R19 7:NC R1 100K 8:NC USB CAMERA circuit NC C155 C152 C153 C151 R143 R144 Q19 ,Q20 1: DEL 7146 AND LIGHT SEMSOR CIRCUIT 1: CHANGE WM8900 TO VT1603A	Xindi Chen	2010/12/10
MS8125B				

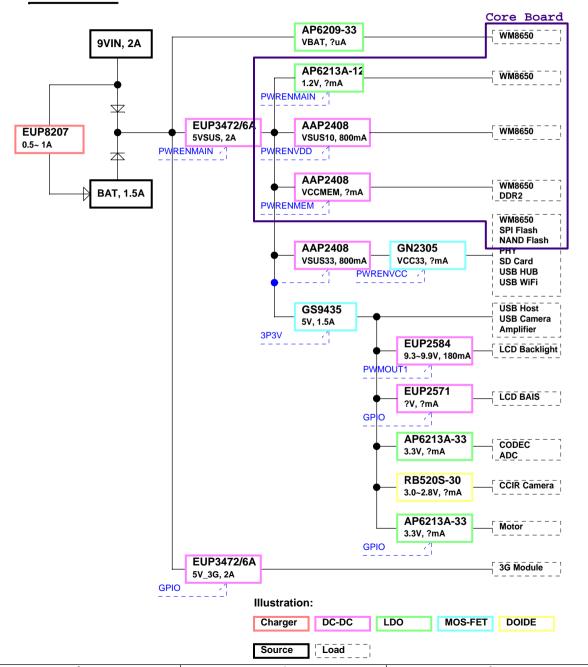




WM8650 Core Board

WMS8121B

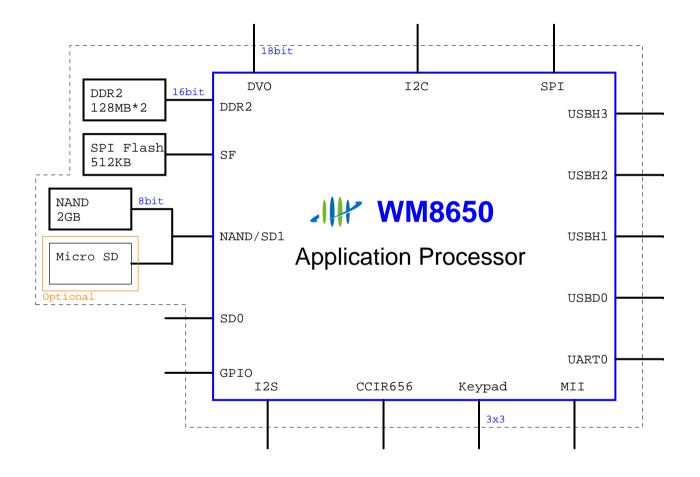
Power Tree:



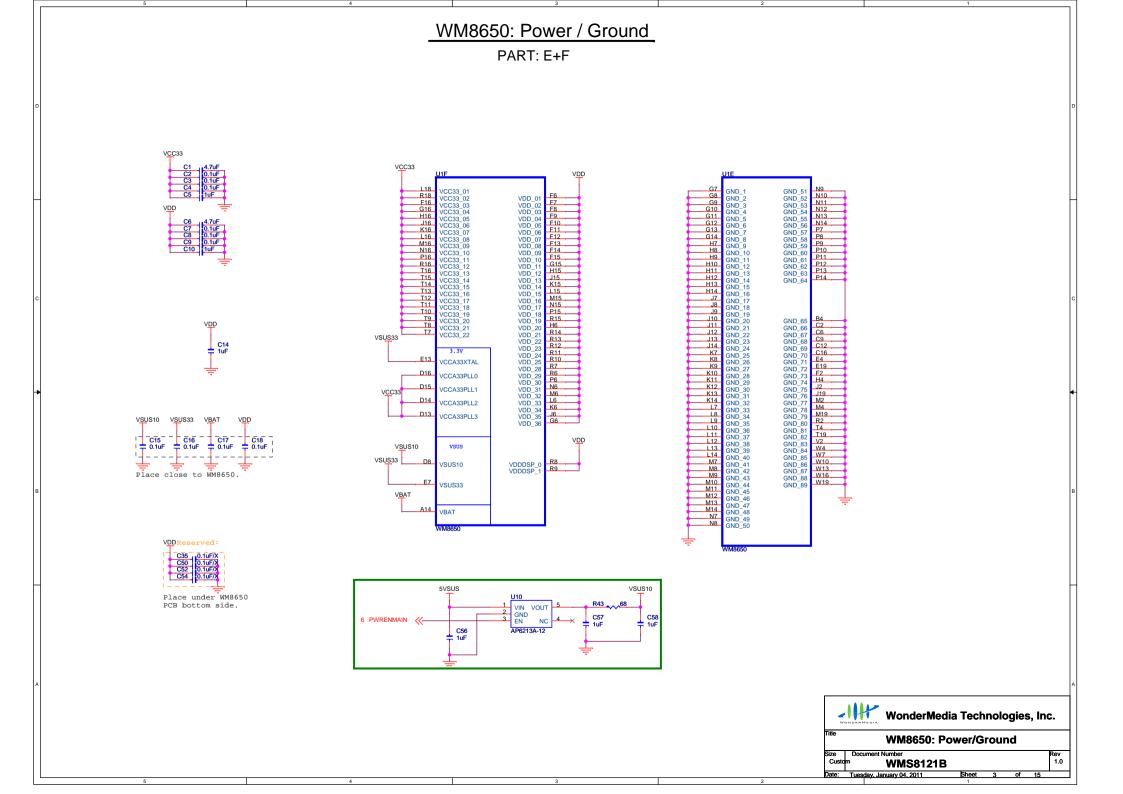
TITLE	PAGE
Cover Page	01
Block Diagram	02
WM8650 Power/Ground	03
WM8650 CLOCK/RESET	04
WM8650 DDR2/DRAM	05
WM8650 NAND/SF/SPI/PWM	06
WM8650 SD/SDIO	07
WM8650 I2S	08
WM8650 USB (H/D)	09
WM8650 LCD I/F	10
WM8650 UART/KEYPAD/JTAG	11
WM8650 MII	12
Strapping Option	13
Core Board Package	14
Revision History	15

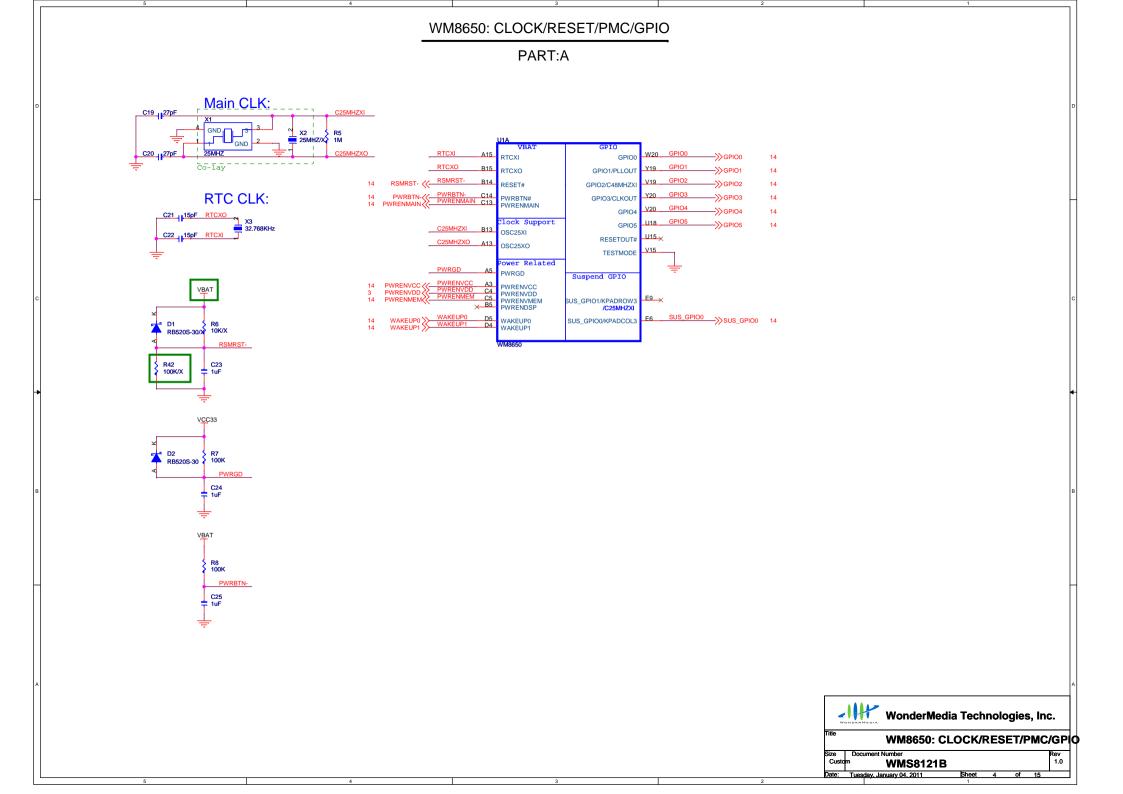
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Date:		nuary 04.	2011	She	of.	4	of	15	•

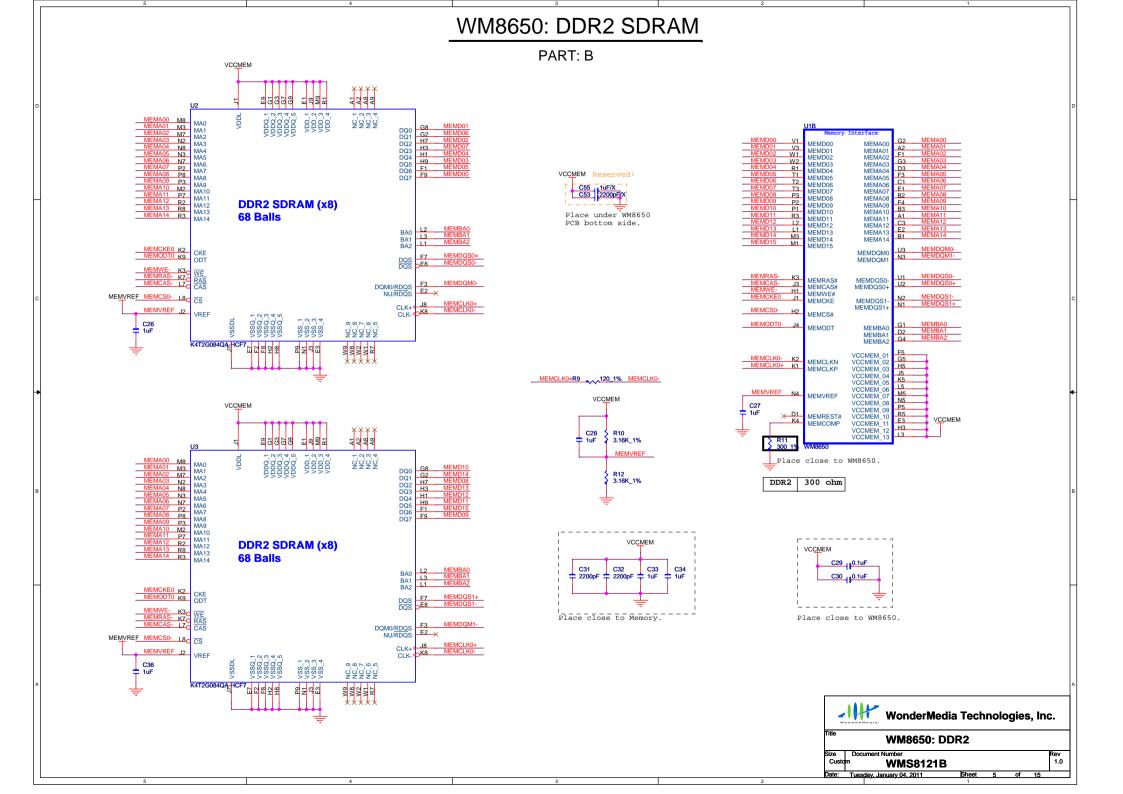
Block Diagram

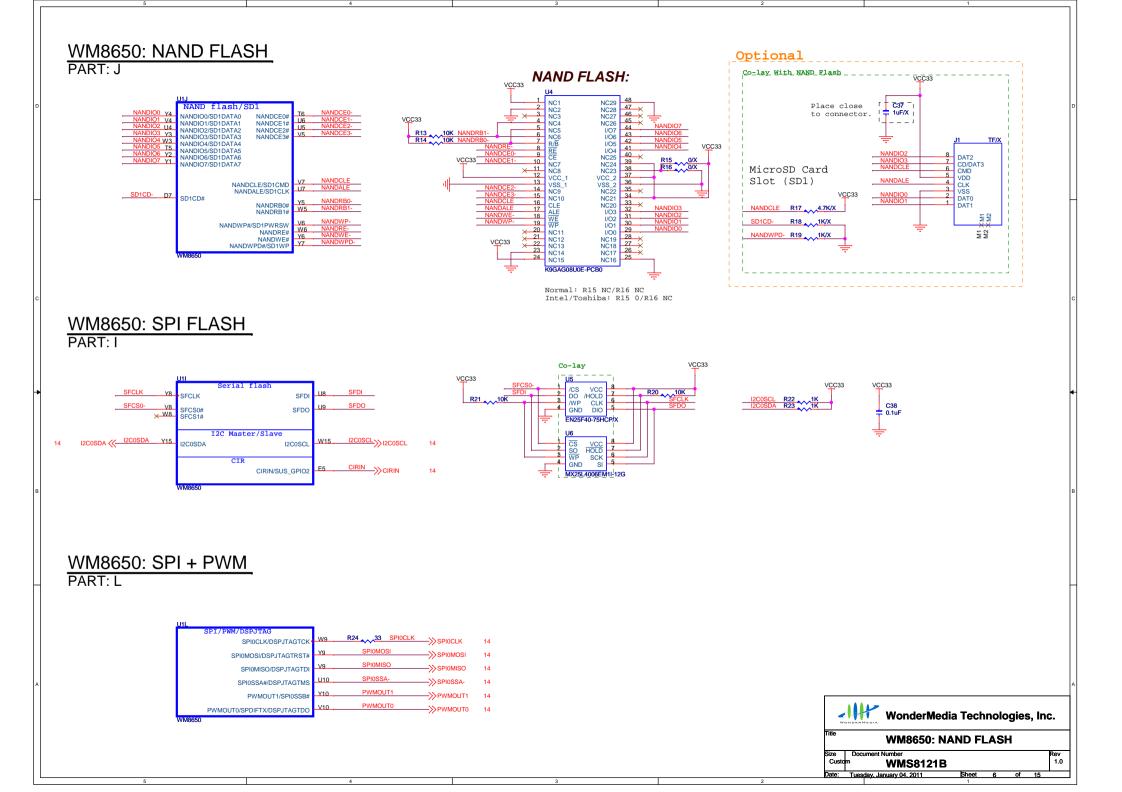


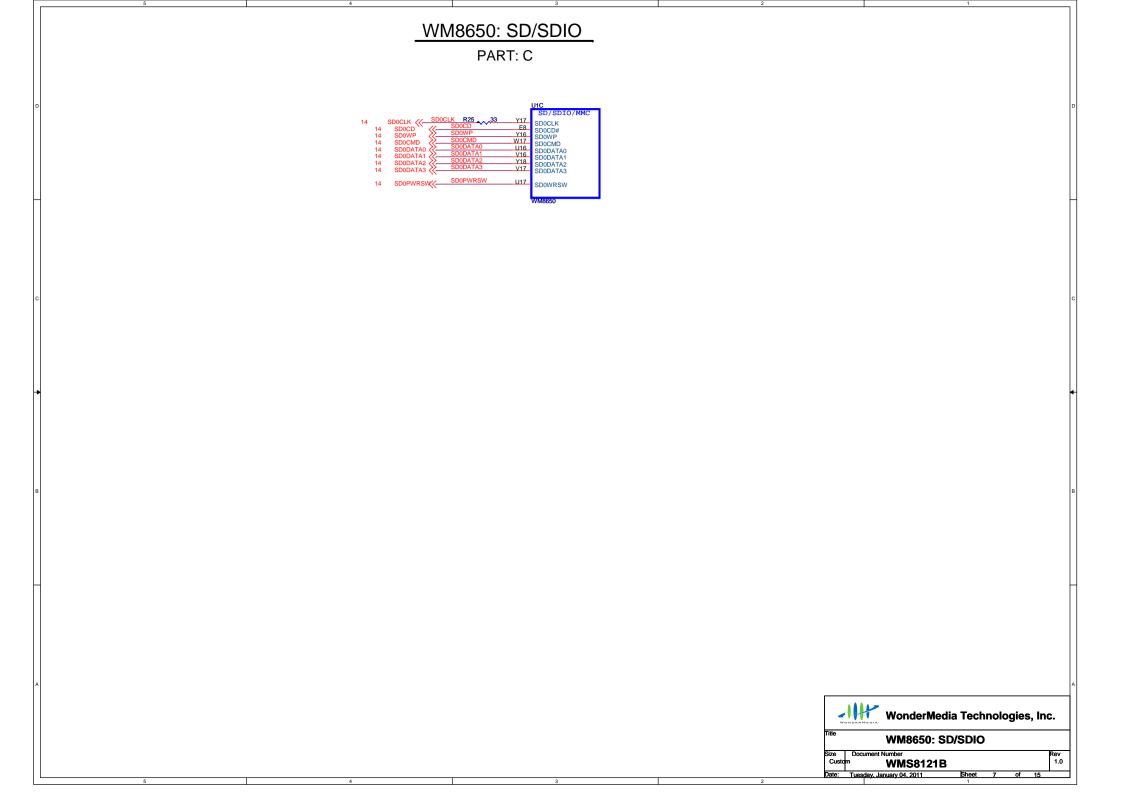
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Date:	Tuesday, Ja	nuary 04, 2011		Sheet	2	of	15	

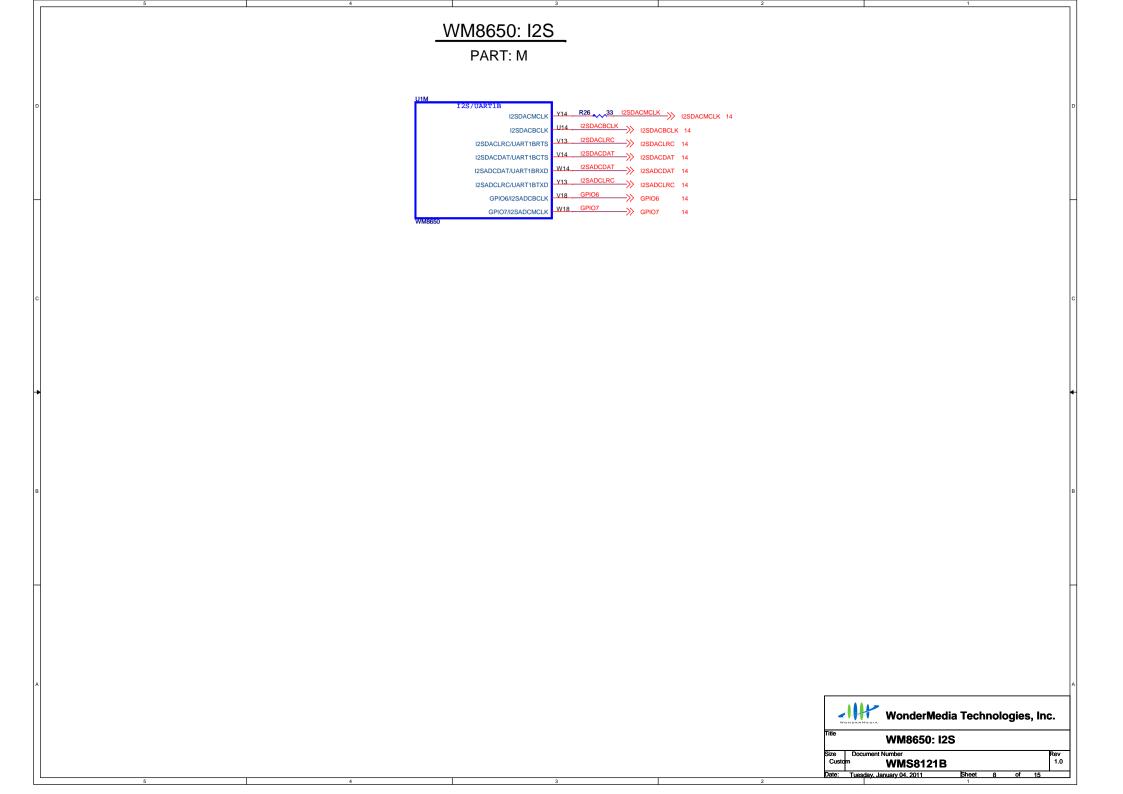


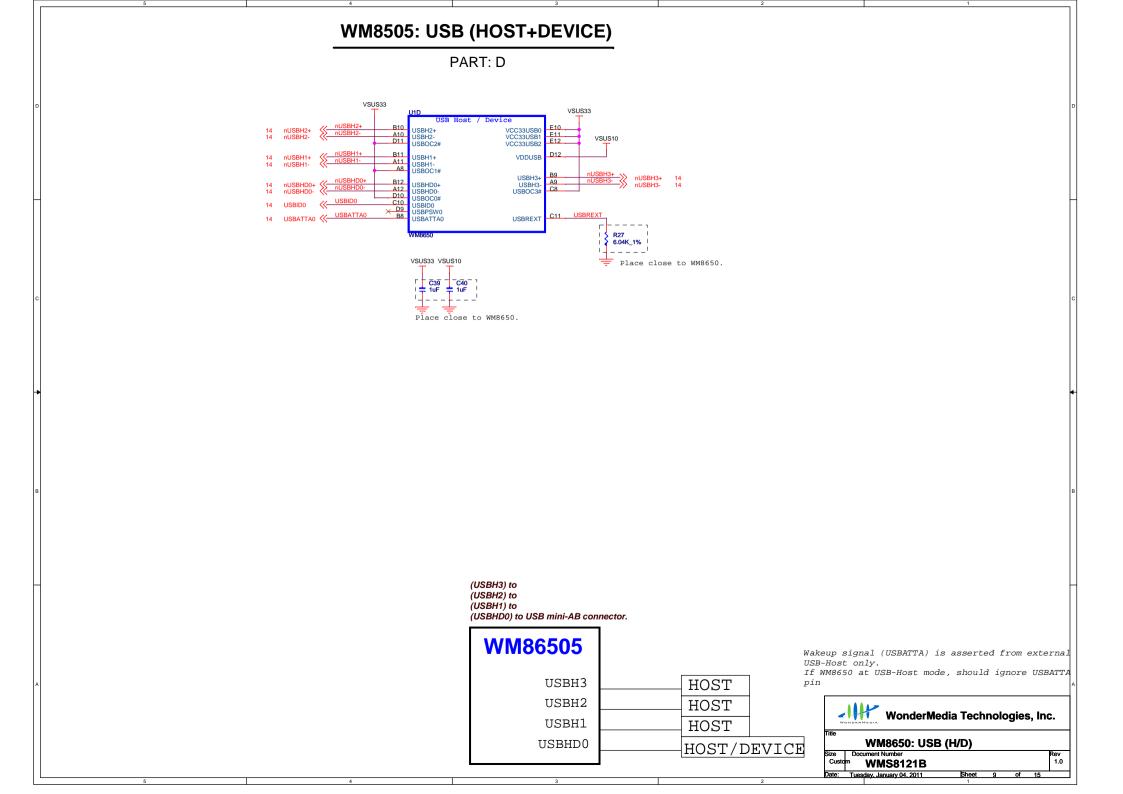


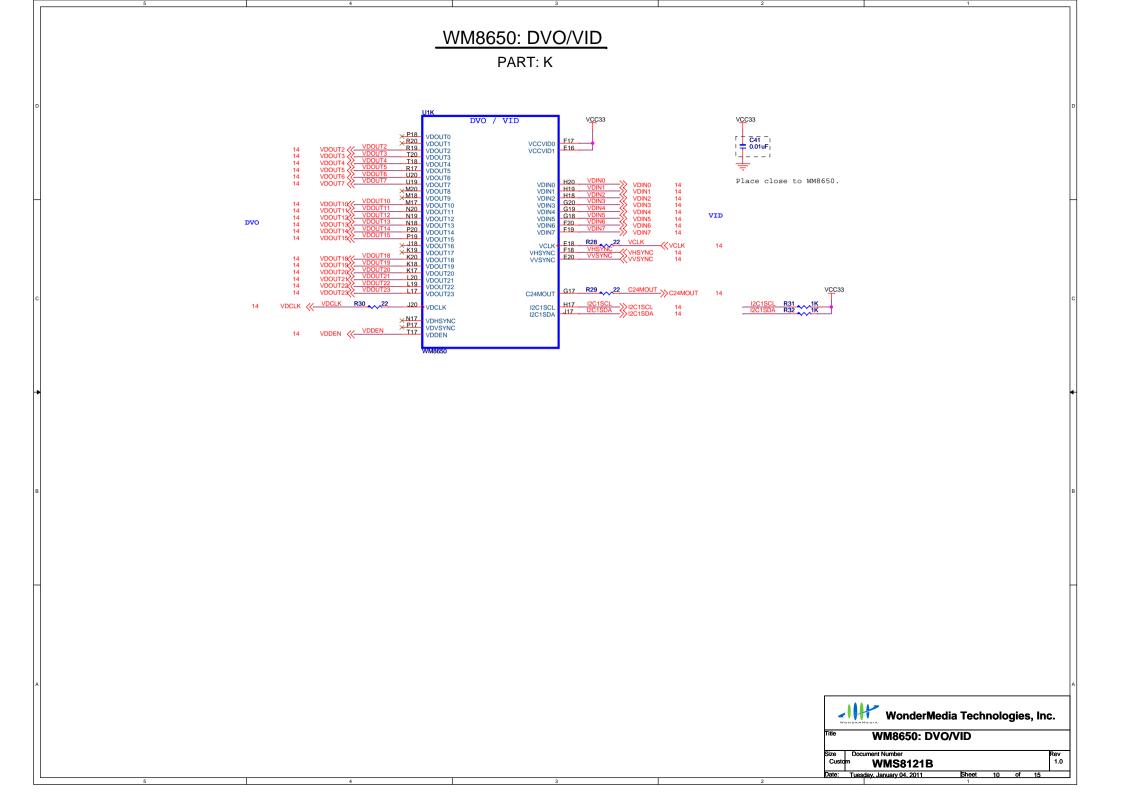




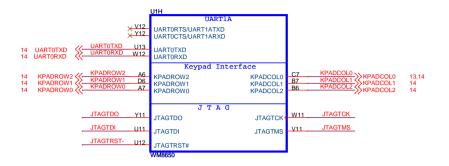


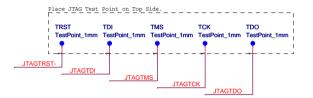




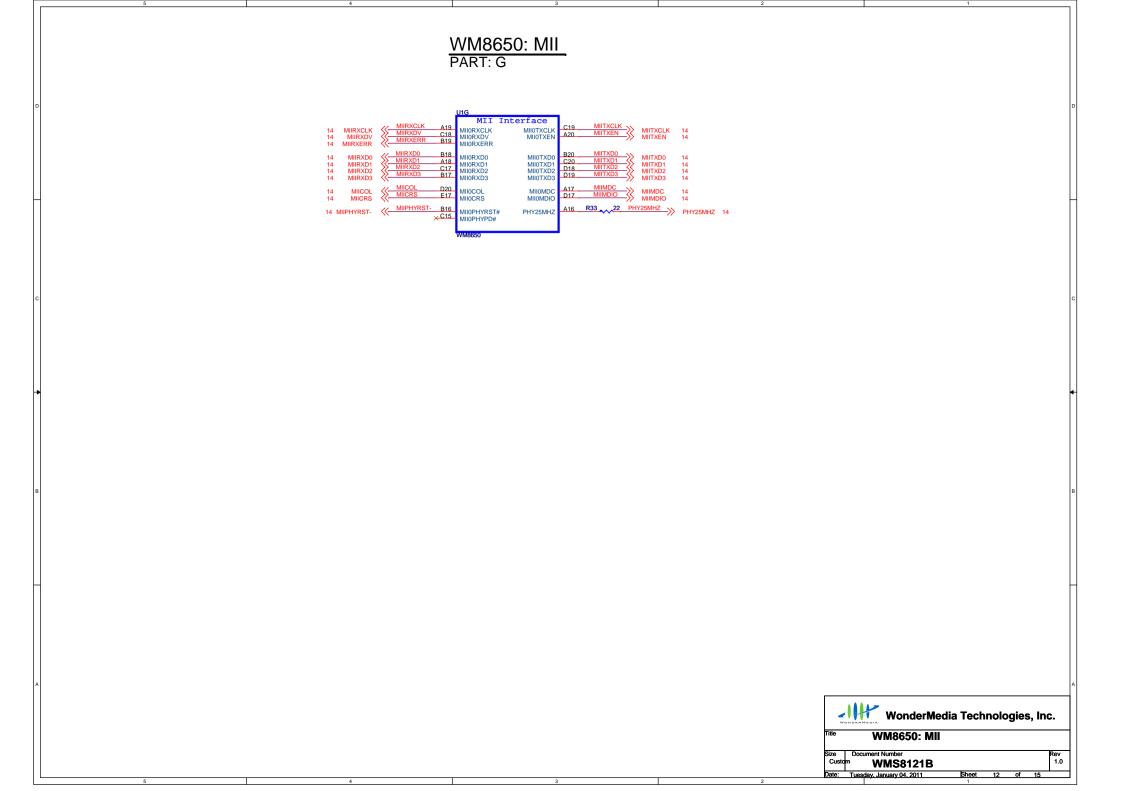


WM8650: UART/KEYPAD/JTAG PART: H









Strapping Option

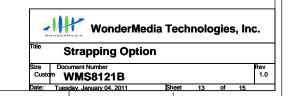
Pin	Internal Pull up/down	Default	Description
KPADCOL0	pull down	0	Inert PWRBTN# 0:debounced for a few cycles 1:kept 2s to trigger

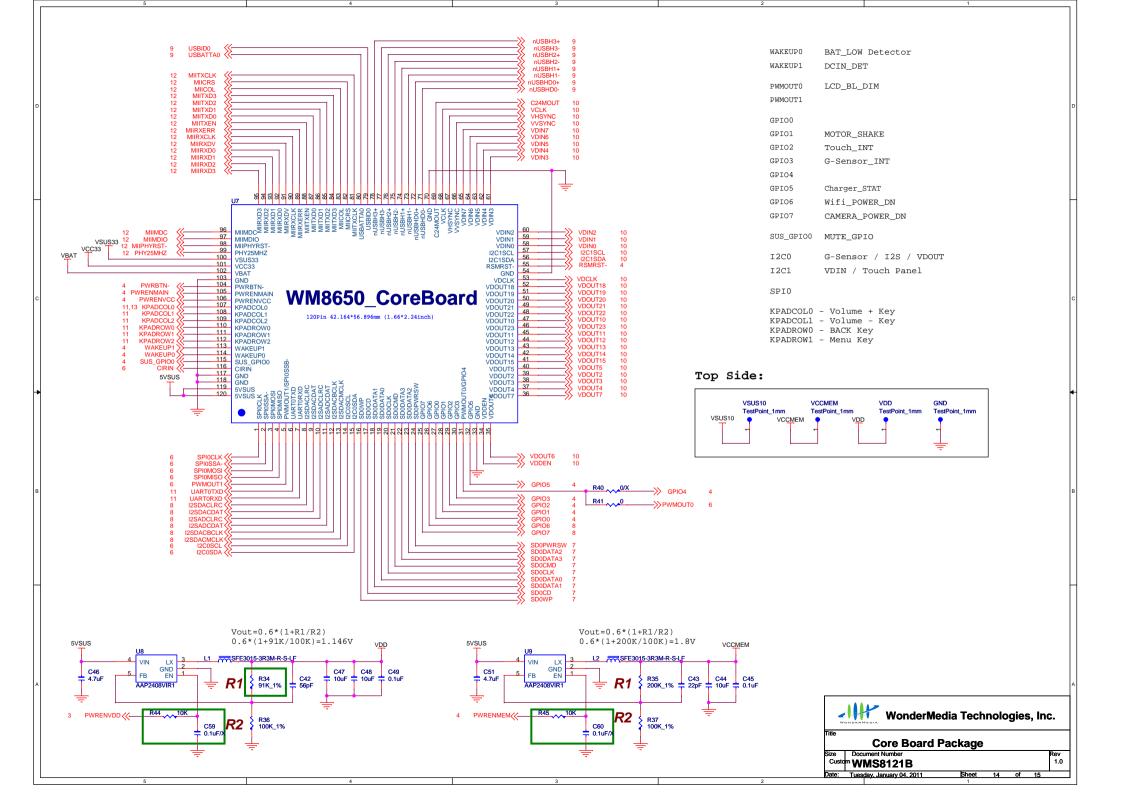
VSUS33

R39 4.7K/X KPADCOL0 KPADCOL0 11,14

WARMING:

ALL others strappings not listed above recommend to use internal settings as default. Otherwise un-expected results may encounter.

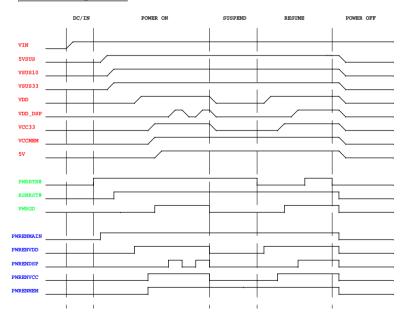




Version History

Version	Modify Content	Responsibility	Date
WMS8121A	Initial released.	Ben Huang	2010/12/12
WMS8121B	1.Delete Q1 GN2314/R1 200K/R2 100K/C12 10uF/C13 0.1uF; 2.Add U10 AP6213A-12/C56/C57/C58 1uF/R43 68; 3.Delete R38 100K, add R44/R45 10K and C59/C60 0.1uF for reserved; 4.R34 95.3K_1% change to 91K_1%; 5.Add R42 100K for Reseved; 6.D1/R6 connect to VBAT; 7.UARTORXD spacing 10mil; 8.Change D1/D2 packsge; 9.Optimize layout.	Ben Huang	2011/01/04

Power Sequence:



WonderMedia Technologies, Inc.

Title

Version History

Size | Document Number | Custom | WMS8121B | Dote: Tuesday, January 04, 2011 | Sheet 15 of 15

