

ArduCAM Rev.B Pin Mapping

Arduino	ArduChip	Camera	LCD	SD/TF Card	FIFO	SoftUART	Extend IOs
Ardu D[7..0]	DataBus[7..0]		DataBus[7..0]				Extend IO[10..3]
Ardu D8						TX	Extend IO[11]
Ardu D9						RX	Extend IO[12]
Ardu D10			LCD CSn	SD/TF CSn	FIFO CSn		Extend IO[21]
Ardu D11				MOSI			Extend IO[18]
Ardu D12				MISO			Extend IO[19]
Ardu D13				SCLK			Extend IO[17]
Ardu A0	Chip RDn		LCD RDn				Extend IO[26]
Ardu A1	Chip WRn		LCD WRn				Extend IO[25]
Ardu A2	Chip RS		LCD RS				Extend IO[28]
Ardu A3	Chip CSn						Extend IO[27]
Ardu A4		I2C SDA					Extend IO[30]
Ardu A5		I2C SCL					Extend IO[29]

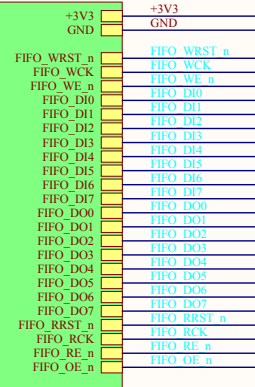
GPIO Pin Mapping

GPIO	Extend IOs
GPIO[0]	Extend IO[15]
GPIO[1]	Extend IO[16]
GPIO[2]	Extend IO[20]
GPIO[3]	Extend IO[22]
GPIO[4]	Extend IO[23]
GPIO[5]	Extend IO[24]

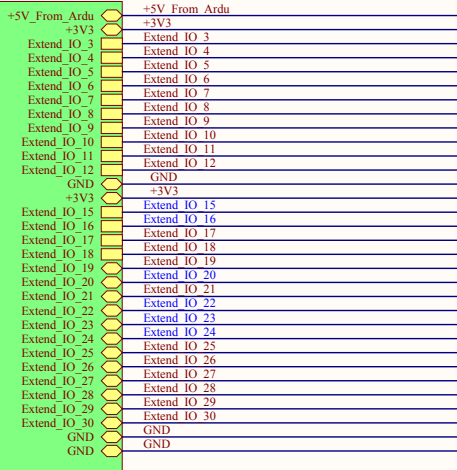
Others SchDoc



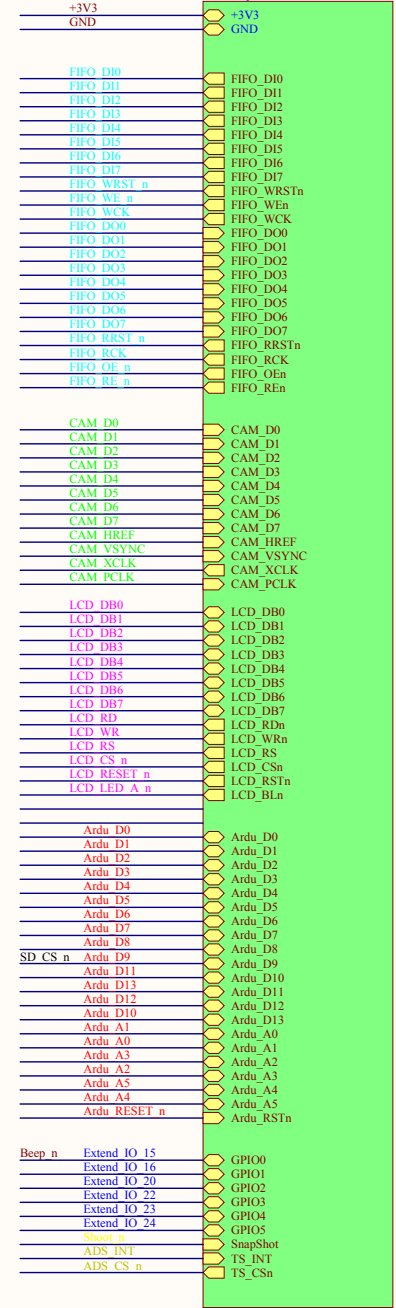
Fifo SchDoc



Extend_IO_SchDoc



ArduChip_SchDoc



Title		
ArduCAM Shield		
Size	Number	Revision
A3		Rev.B
Date:	2013-3-14	Sheet of
File:	G:\projects\Top_SchDoc	Drawn By:

A

B

C

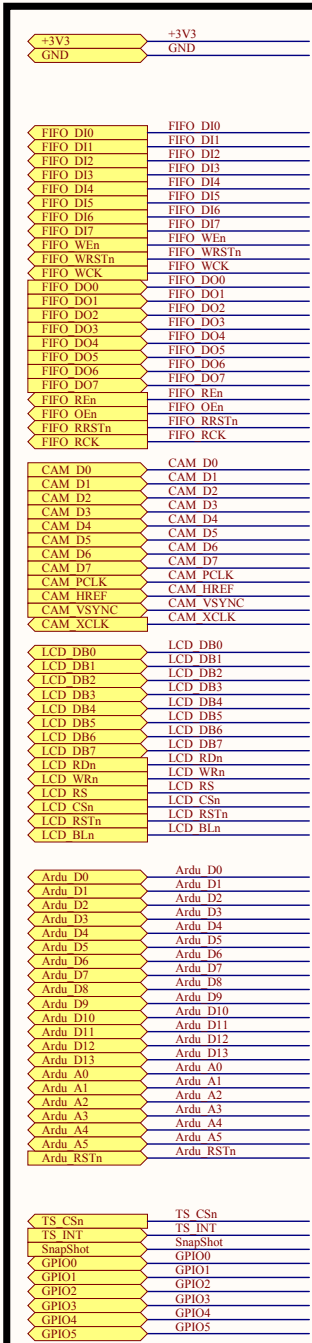
D

A

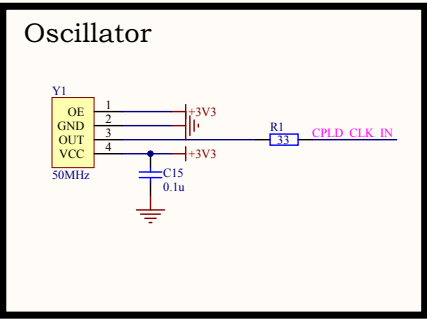
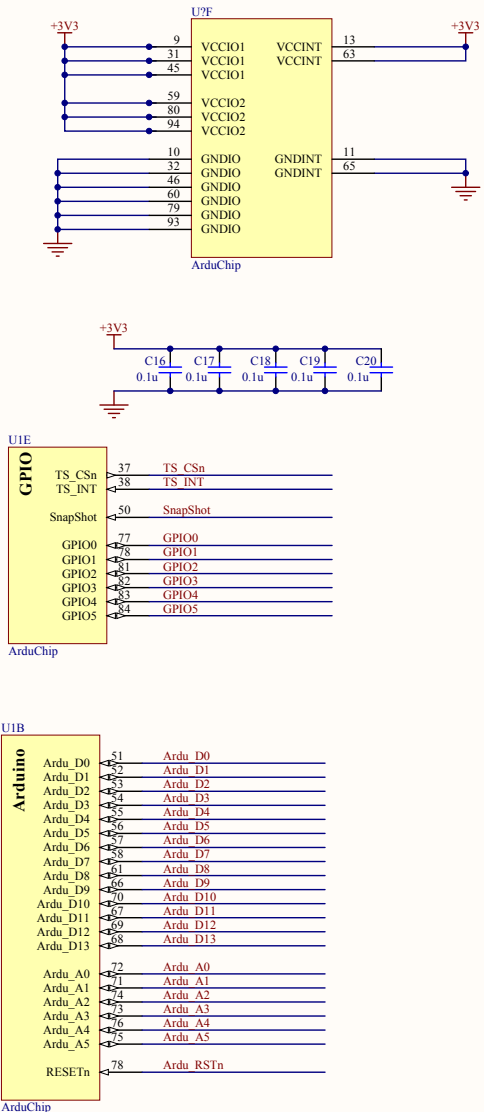
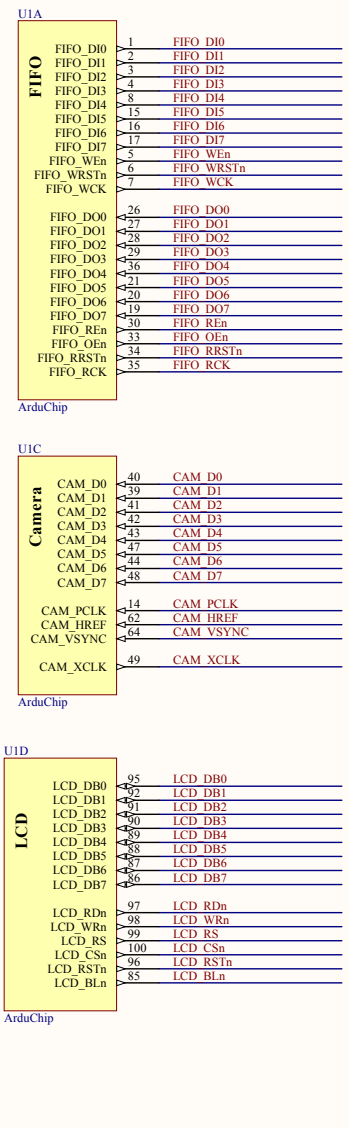
B

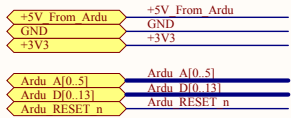
C

D

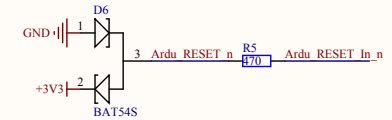
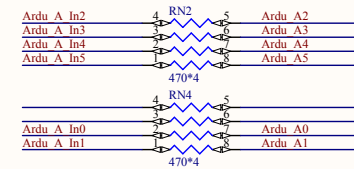
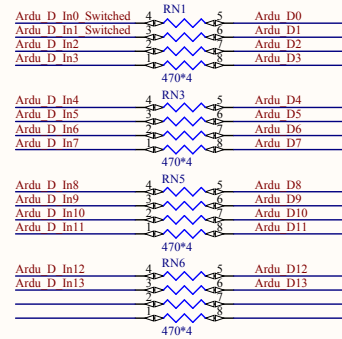
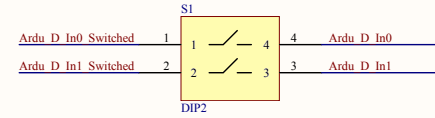
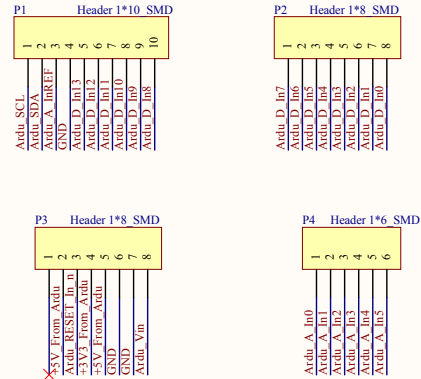


ArduChip

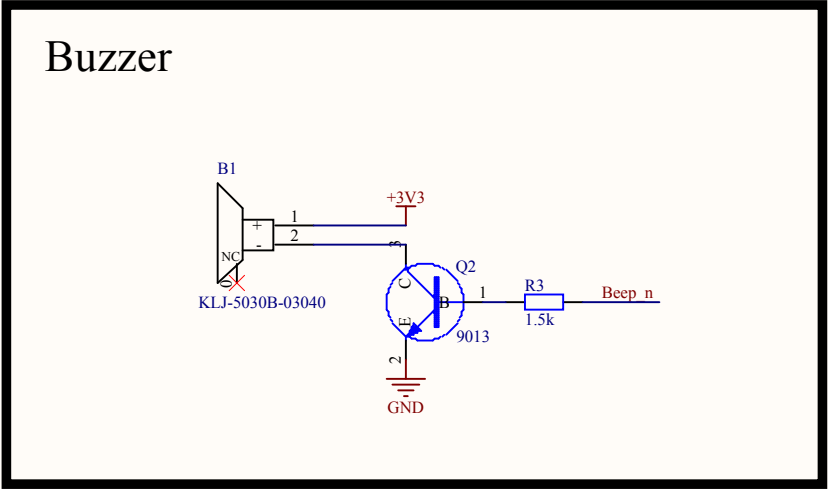
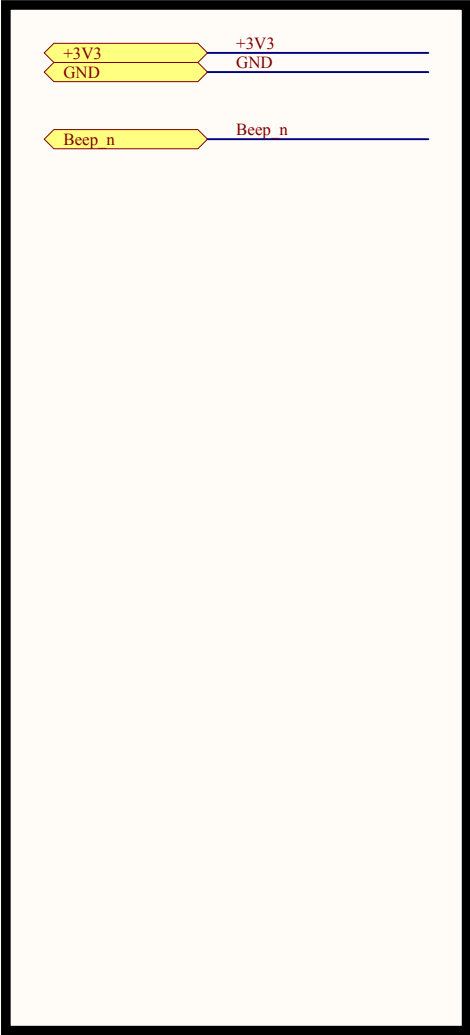




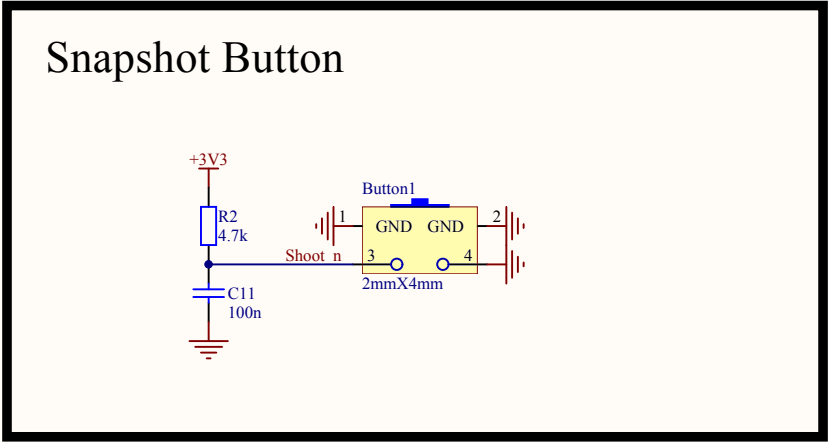
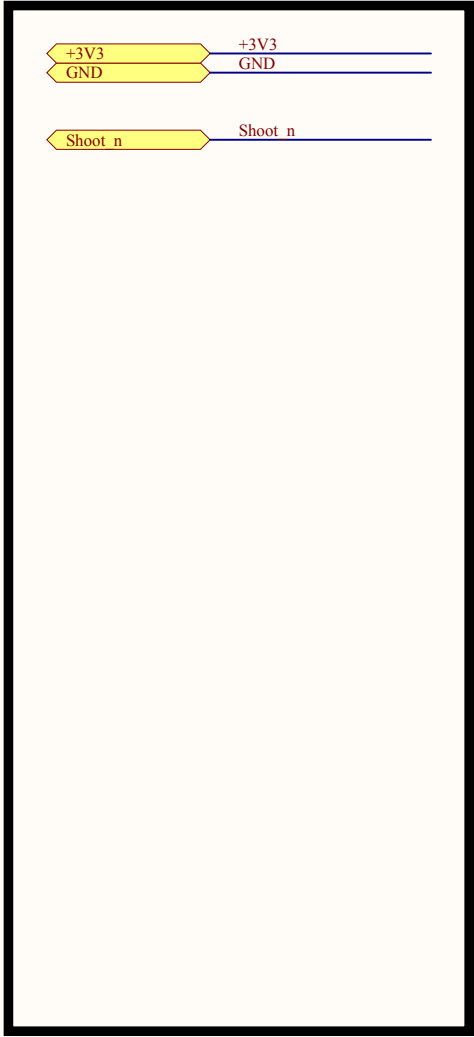
Arduino Connector



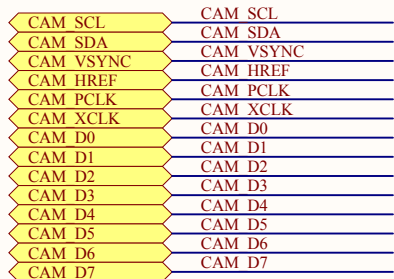
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File:	G:\projects\Arduino\SchDoc	Drawn By:



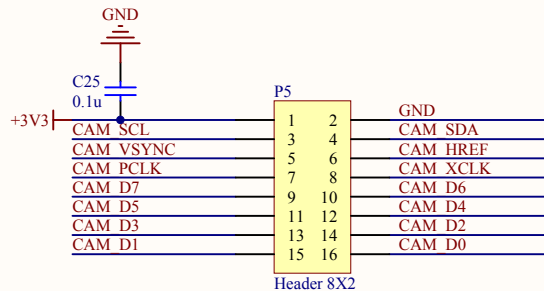
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Size	Number	Revision		
A4		Rev.B		
Date:	2013-3-14	Sheet	of	
File:	G:\projects\...\Beep.SchDoc	Drawn By:		



Title			BUTTON	
Size	Number		Revision	
A4			Rev.B	
Date:	2013-3-14		Sheet of	
File:	G:\projects\...\Button.SchDoc		Drawn By:	



Camera Interface



Title			
CAMERA INTERFACE			
Size	Number		Revision
A4			Rev.B
Date:	2013-3-14	Sheet	of
File:	G:\projects\...\CAM.SchDoc	Drawn By:	

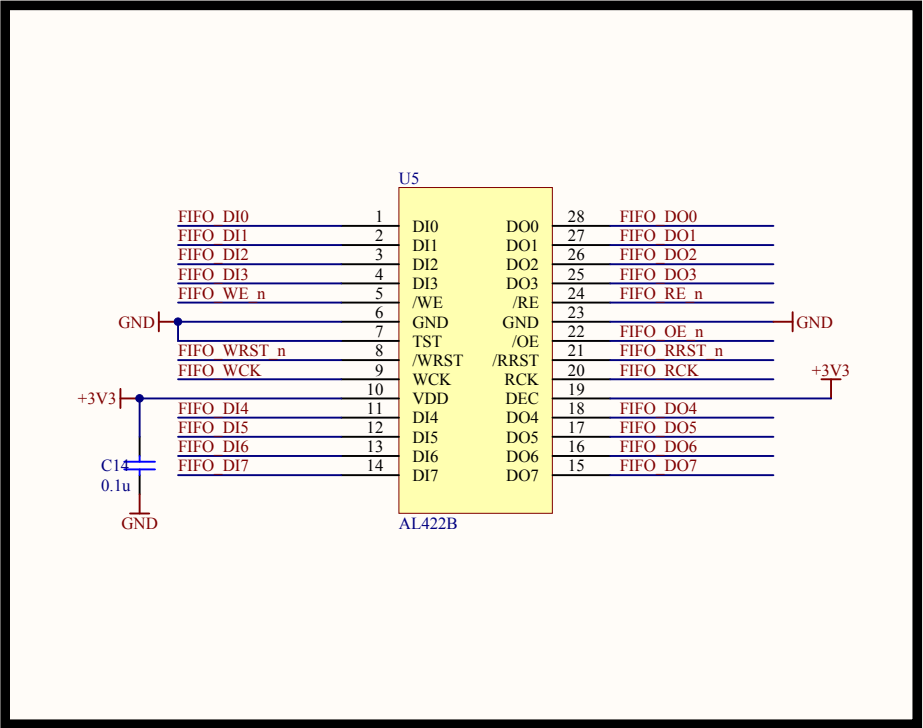
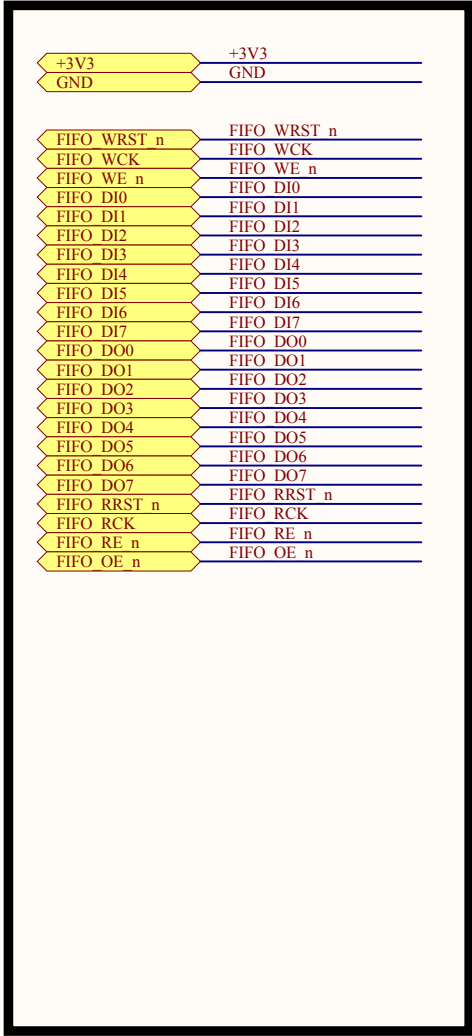
Expansion IOs

+5V From Ardu	+5V From Ardu
+3V3	+3V3
Extend IO 3	Extend IO 3
Extend IO 4	Extend IO 4
Extend IO 5	Extend IO 5
Extend IO 6	Extend IO 6
Extend IO 7	Extend IO 7
Extend IO 8	Extend IO 8
Extend IO 9	Extend IO 9
Extend IO 10	Extend IO 10
Extend IO 11	Extend IO 11
Extend IO 12	Extend IO 12
GND	GND
+3V3	+3V3
Extend IO 15	Extend IO 15
Extend IO 16	Extend IO 16
Extend IO 17	Extend IO 17
Extend IO 18	Extend IO 18
Extend IO 19	Extend IO 19
Extend IO 20	Extend IO 20
Extend IO 21	Extend IO 21
Extend IO 22	Extend IO 22
Extend IO 23	Extend IO 23
Extend IO 24	Extend IO 24
Extend IO 25	Extend IO 25
Extend IO 26	Extend IO 26
Extend IO 27	Extend IO 27
Extend IO 28	Extend IO 28
Extend IO 29	Extend IO 29
Extend IO 30	Extend IO 30
GND	GND
GND	GND

P6		
+5V From Ardu	1 2	+3V3
Extend IO 3	3 4	Extend IO 4
Extend IO 5	5 6	Extend IO 6
Extend IO 7	7 8	Extend IO 8
Extend IO 9	9 10	Extend IO 10
Extend IO 11	11 12	Extend IO 12
GND	13 14	+3V3
Extend IO 15	15 16	Extend IO 16
Extend IO 17	17 18	Extend IO 18
Extend IO 19	19 20	Extend IO 20
Extend IO 21	21 22	Extend IO 22
Extend IO 23	23 24	Extend IO 24
Extend IO 25	25 26	Extend IO 26
Extend IO 27	27 28	Extend IO 28
Extend IO 29	29 30	Extend IO 30
GND	31 32	GND

Header 16X2H

Title			EXTEND IO	
Size	Number	Revision		Rev.B
A4				
Date:	2013-3-14	Sheet	of	
File:	G:\projects\...\Extend IO.SchDoc	Drawn By:		



Title				Revision
FIFO				
Size	Number			
A4				
Date:	2013-3-14			Sheet of
File:	G:\projects\...\Fifo.SchDoc			Drawn By:



The diagram illustrates the hardware connections for the LCD module, including the microcontroller (8550), the LCD module (LCD1), and the LED module (LED-A). The microcontroller is connected to the LCD module via a 3.2TFT interface. The LED module is connected to the microcontroller via a 3.2TFT interface. The microcontroller is connected to the LED module via a 3.2TFT interface.

Microcontroller (8550) Pin Connections:

- Pin 1: GND
- Pin 2: +3V3
- Pin 3: GND
- Pin 4: LCD CS_n
- Pin 5: LCD RS
- Pin 6: LCD WR
- Pin 7: LCD RD
- Pin 8: LCD RESET_n
- Pin 9: LCD DB0
- Pin 10: LCD DB1
- Pin 11: LCD DB2
- Pin 12: LCD DB3
- Pin 13: LCD DB4
- Pin 14: LCD DB5
- Pin 15: LCD DB6
- Pin 16: LCD DB7
- Pin 17: LCD DB8
- Pin 18: LCD DB9
- Pin 19: LCD DB10
- Pin 20: LCD DB11
- Pin 21: LCD DB12
- Pin 22: LCD DB13
- Pin 23: LCD DB14
- Pin 24: LCD DB15
- Pin 25: GND
- Pin 26: LCD Y₋
- Pin 27: LCD X₋
- Pin 28: LCD Y₊
- Pin 29: LCD X₊
- Pin 30: LED-K1
- Pin 31: LED-K2
- Pin 32: LED-K3
- Pin 33: LED-K4
- Pin 34: LED-K5
- Pin 35: LED-A
- Pin 36: LED-A
- Pin 37: GND

LCD Module (LCD1) Pin Connections:

- Pin 1: GND
- Pin 2: +3V3
- Pin 3: GND
- Pin 4: LCD CS_n
- Pin 5: LCD RS
- Pin 6: LCD WR
- Pin 7: LCD RD
- Pin 8: LCD RESET_n
- Pin 9: LCD DB0
- Pin 10: LCD DB1
- Pin 11: LCD DB2
- Pin 12: LCD DB3
- Pin 13: LCD DB4
- Pin 14: LCD DB5
- Pin 15: LCD DB6
- Pin 16: LCD DB7
- Pin 17: LCD DB8
- Pin 18: LCD DB9
- Pin 19: LCD DB10
- Pin 20: LCD DB11
- Pin 21: LCD DB12
- Pin 22: LCD DB13
- Pin 23: LCD DB14
- Pin 24: LCD DB15
- Pin 25: GND
- Pin 26: LCD Y₋
- Pin 27: LCD X₋
- Pin 28: LCD Y₊
- Pin 29: LCD X₊
- Pin 30: LED-K1
- Pin 31: LED-K2
- Pin 32: LED-K3
- Pin 33: LED-K4
- Pin 34: LED-K5
- Pin 35: LED-A
- Pin 36: LED-A
- Pin 37: GND

LED Module (LED-A) Pin Connections:

- Pin 1: GND
- Pin 2: +3V3
- Pin 3: GND
- Pin 4: LCD CS_n
- Pin 5: LCD RS
- Pin 6: LCD WR
- Pin 7: LCD RD
- Pin 8: LCD RESET_n
- Pin 9: LCD DB0
- Pin 10: LCD DB1
- Pin 11: LCD DB2
- Pin 12: LCD DB3
- Pin 13: LCD DB4
- Pin 14: LCD DB5
- Pin 15: LCD DB6
- Pin 16: LCD DB7
- Pin 17: LCD DB8
- Pin 18: LCD DB9
- Pin 19: LCD DB10
- Pin 20: LCD DB11
- Pin 21: LCD DB12
- Pin 22: LCD DB13
- Pin 23: LCD DB14
- Pin 24: LCD DB15
- Pin 25: GND
- Pin 26: LCD Y₋
- Pin 27: LCD X₋
- Pin 28: LCD Y₊
- Pin 29: LCD X₊
- Pin 30: LED-K1
- Pin 31: LED-K2
- Pin 32: LED-K3
- Pin 33: LED-K4
- Pin 34: LED-K5
- Pin 35: LED-A
- Pin 36: LED-A
- Pin 37: GND

Title 3.2" TFT LCD		
Size A4	Number	Revision Rev.B
Date: File:	2013-3-14 G:\projects\LCD.SchDoc	Sheet of Drawn By:

1

2

3

4

A

A

B

B

C

C

D

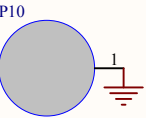
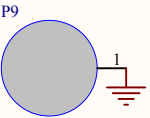
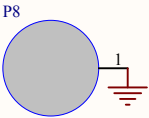
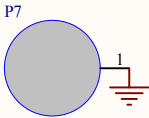
D



LOGO



Fixing Holes



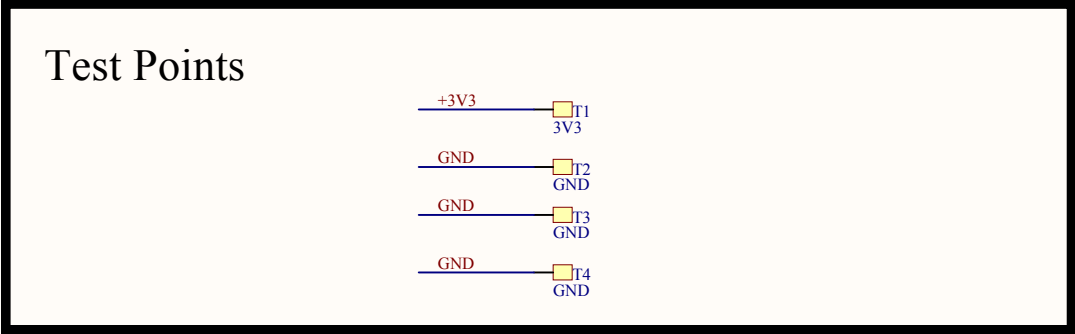
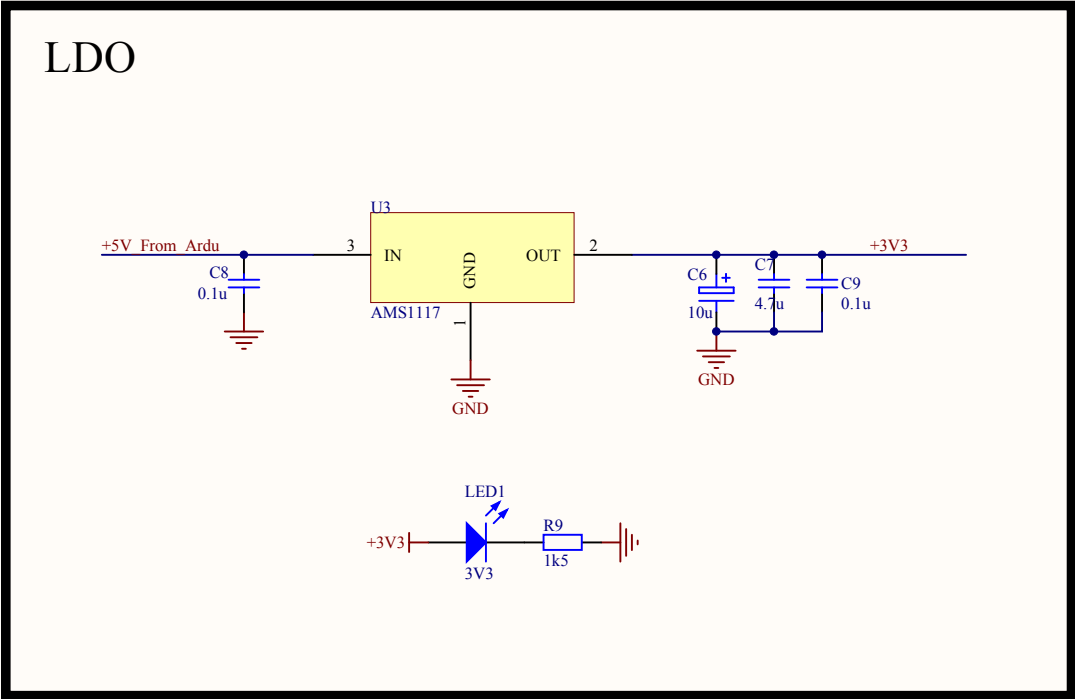
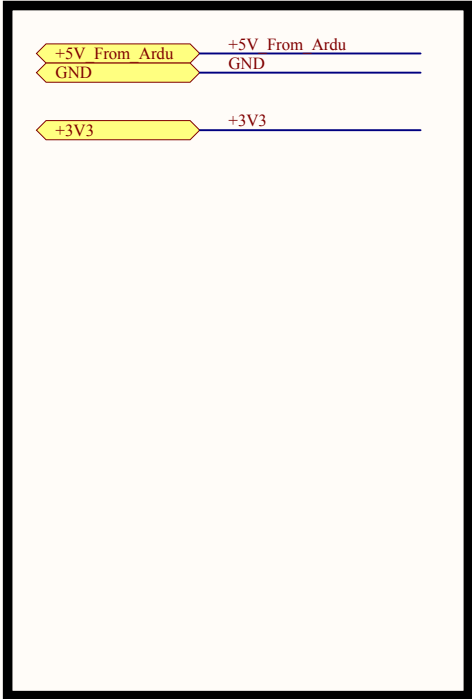
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Size	Number		Revision	
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Date:	2013-3-14		Sheet of	
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1

2

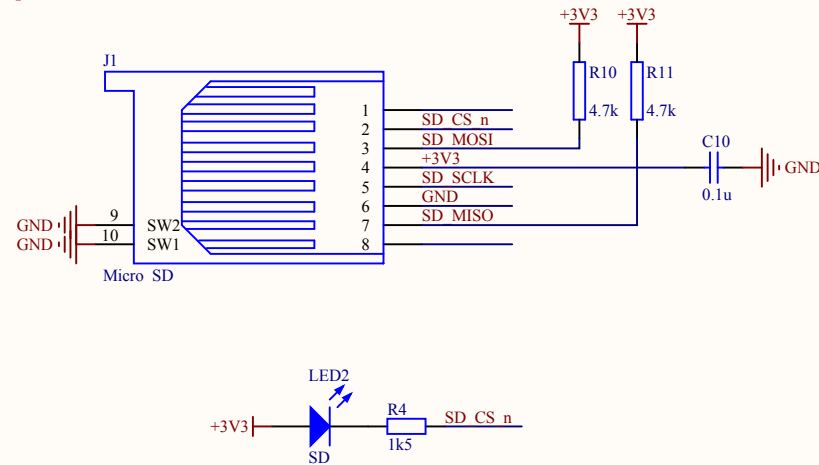
3

4



Title			POWER	
Size	Number		Revision	
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Date:	2013-3-14		Sheet of	
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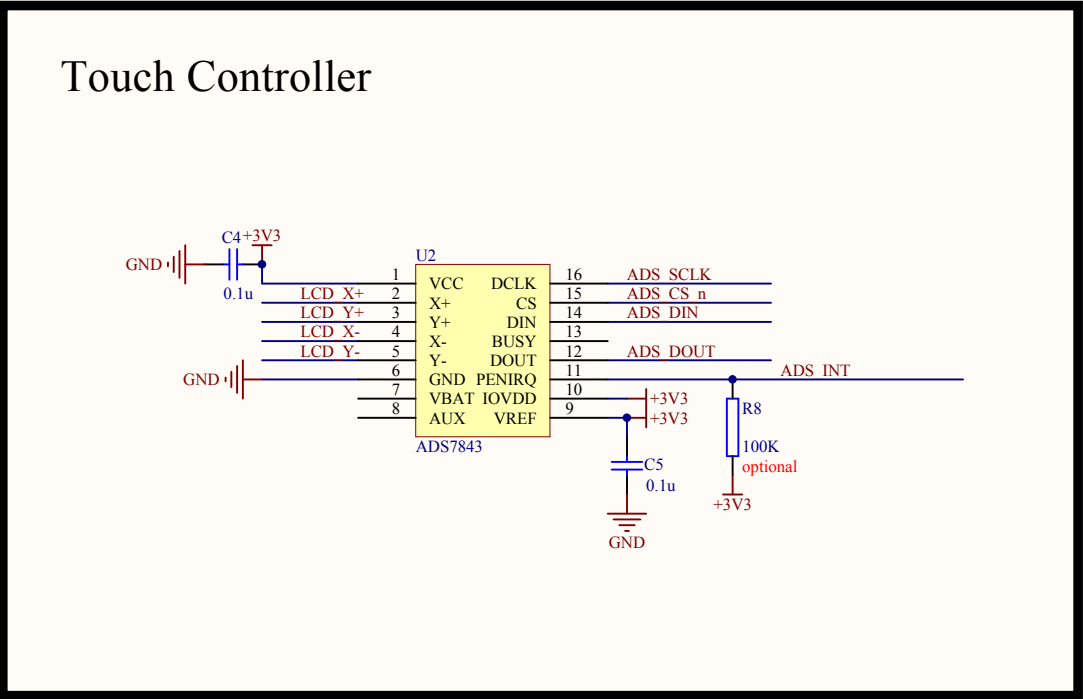
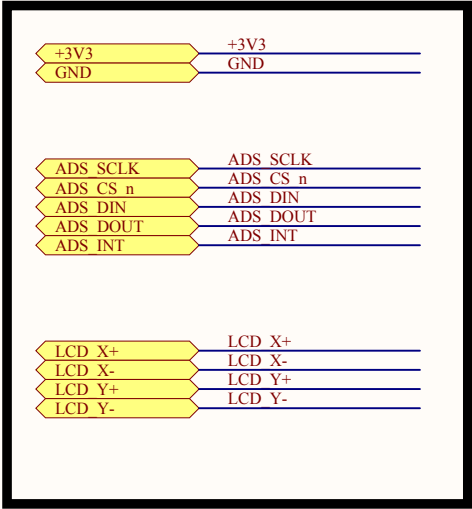
SD/TF Card Reader



+3V3
GND

SD CS_n
SD MOSI
SD SCLK
SD MISO

Title			
TF CARD			
Size	Number		Revision
A4			Rev.B
Date:	2013-3-14	Sheet	of
File:	G:\projects\TF Card.SchDoc	Drawn By:	



Title			
TOUCH CONTROLLER			
Size	Number		Revision
A4			Rev.B
Date:	2013-3-14	Sheet of	
File:	G:\projects\TouchController.SchDoc	Drawn By:	

