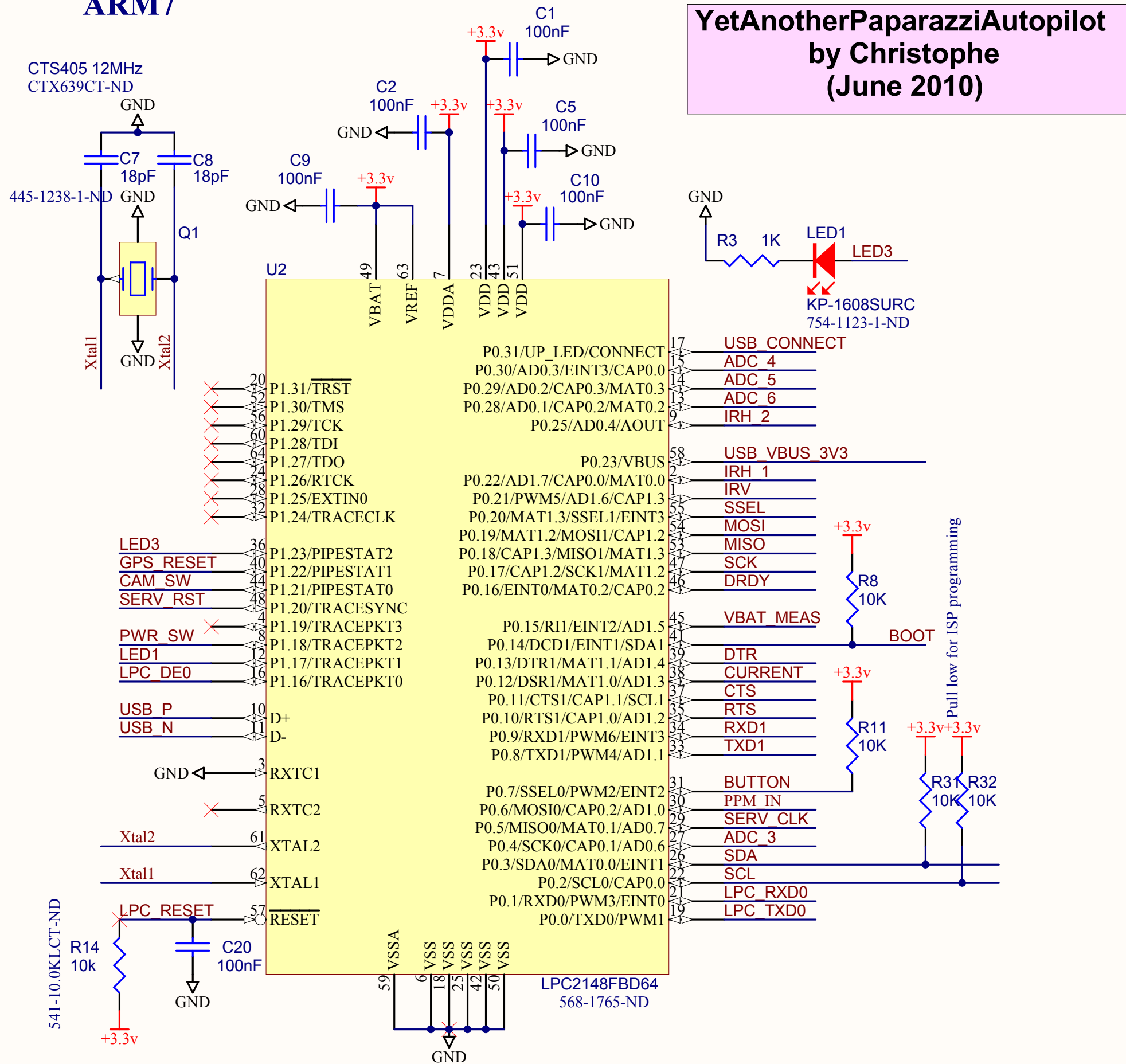
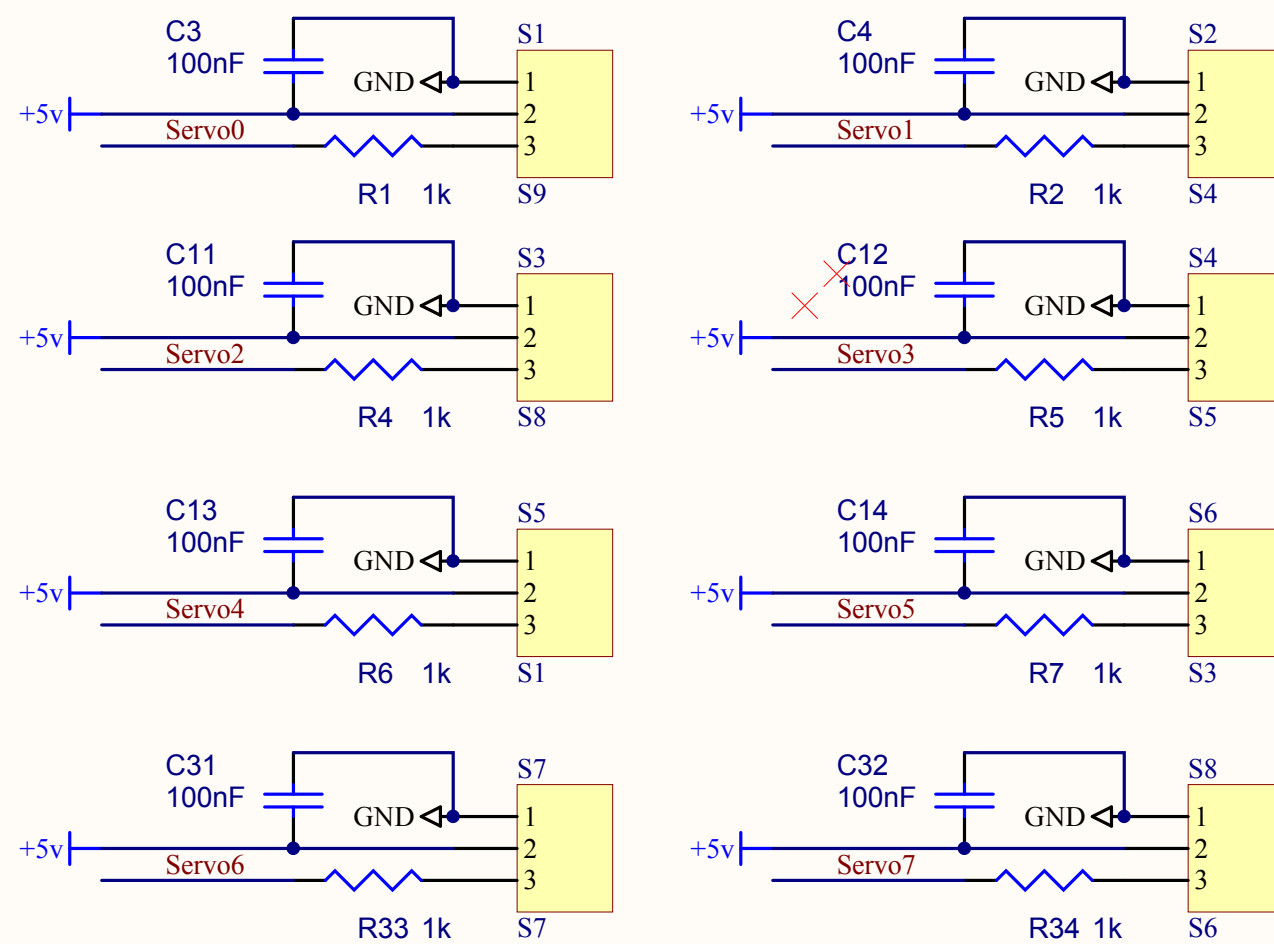


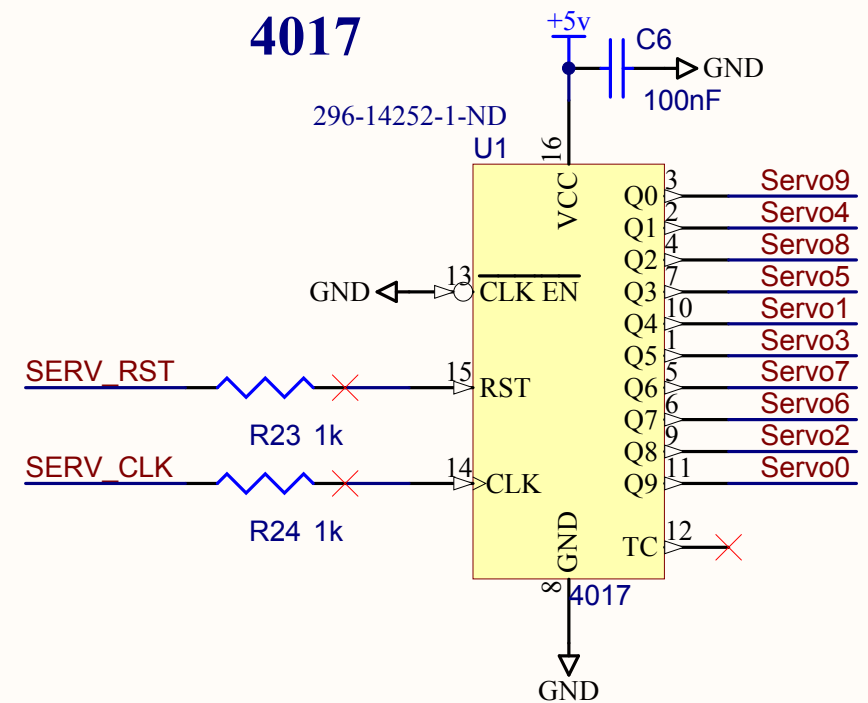
ARM7



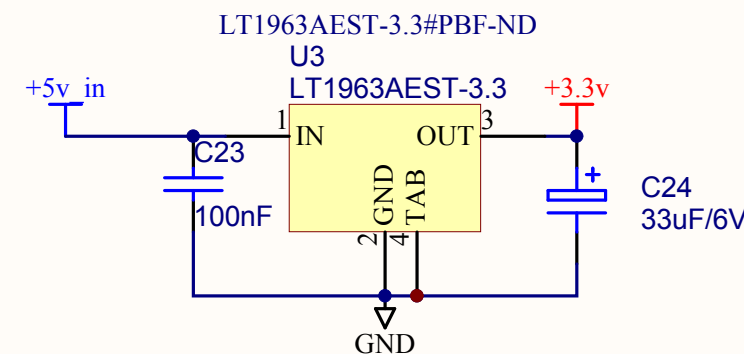
Servos



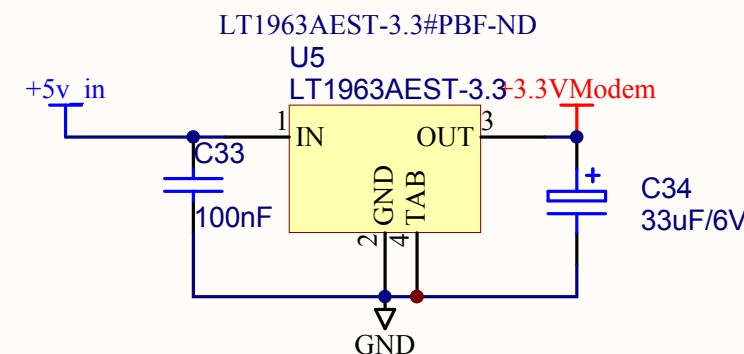
4017



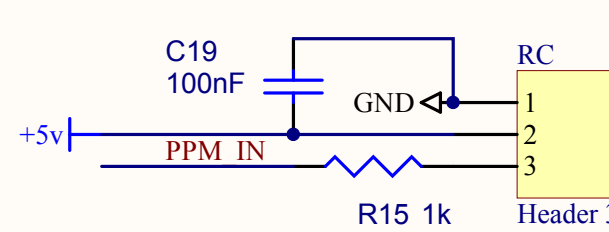
3.3V ARM Power



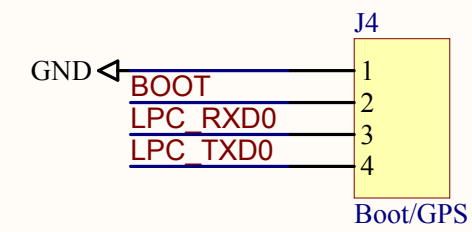
3.3V Modem Power



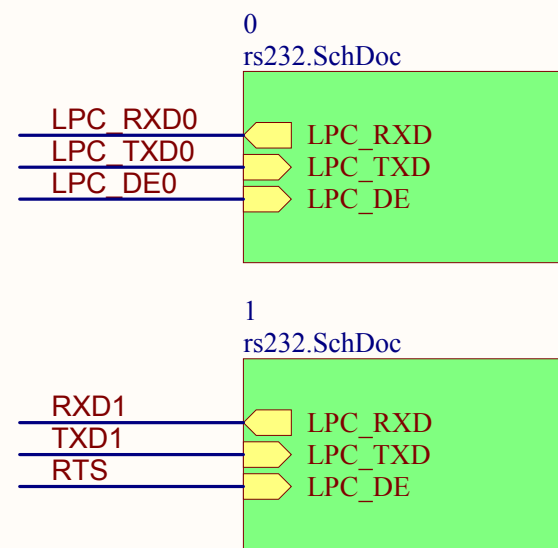
RC



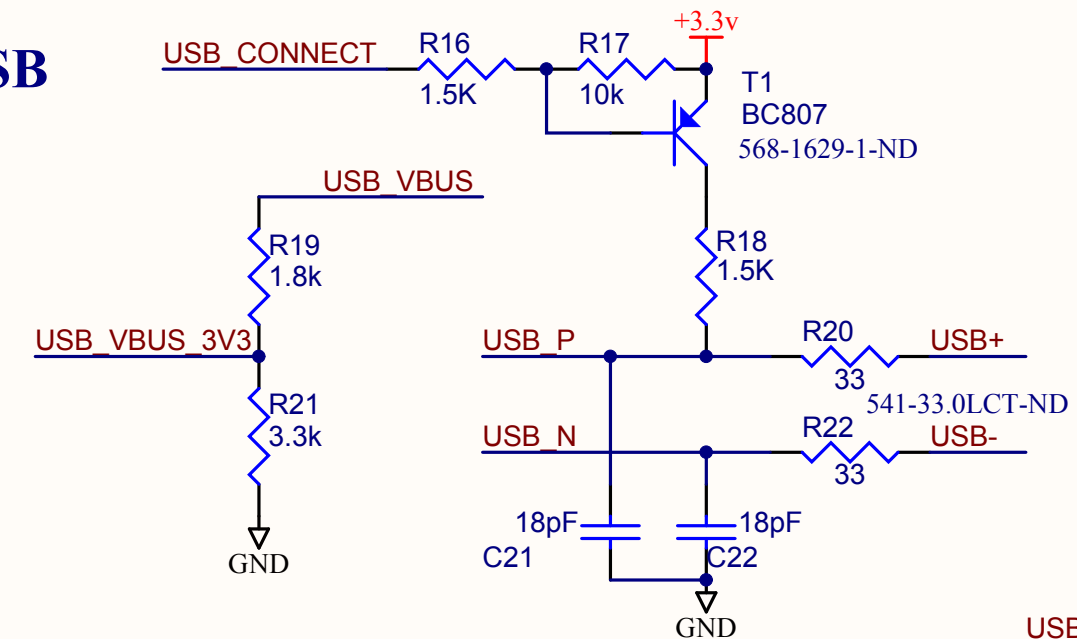
Bootloader



RS232/422/485

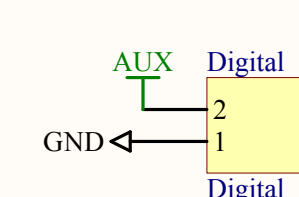


USB

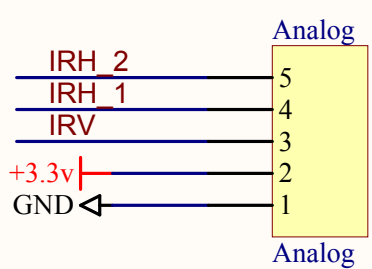


Extras

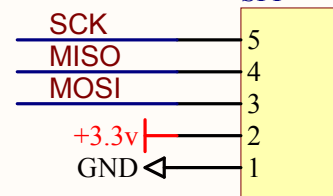
Digital



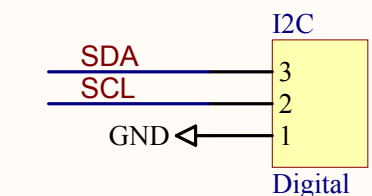
Analog



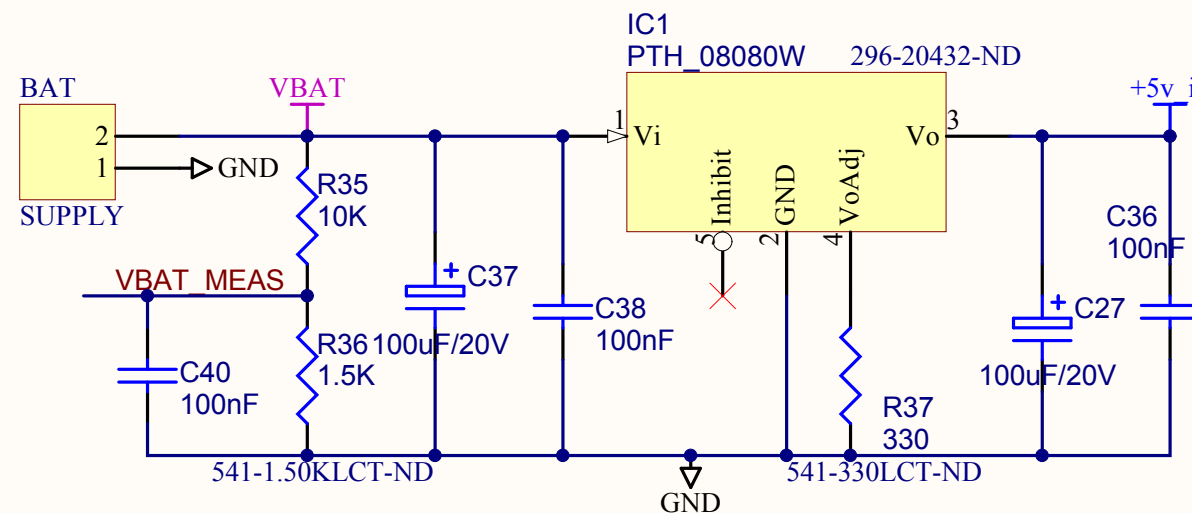
SPI



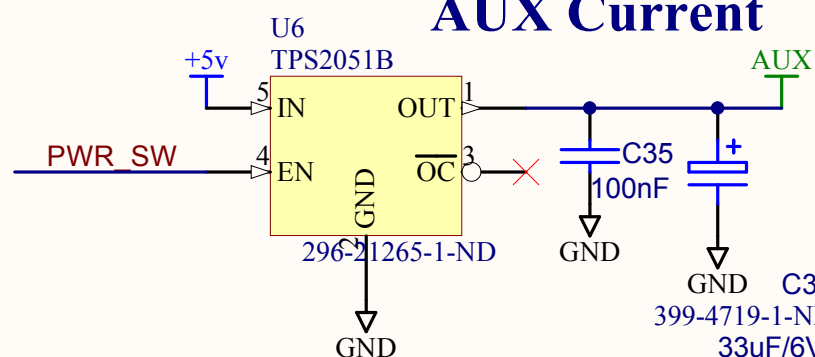
I2C



5V Power



AUX Current



Title		
Size	Number	Revision
A3		
Date:	7/1/2010	Sheet of
File:	C:\Documents and Settings\...\LadderMolen...	By:

A

B

C

D

A

B

C

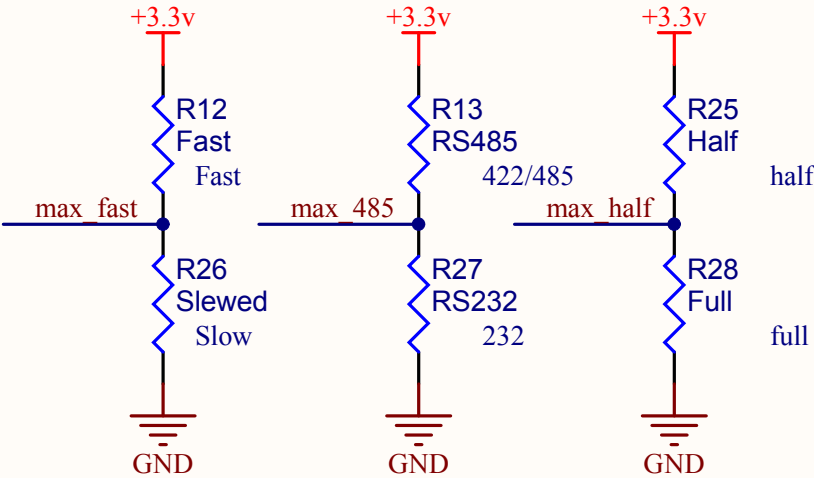
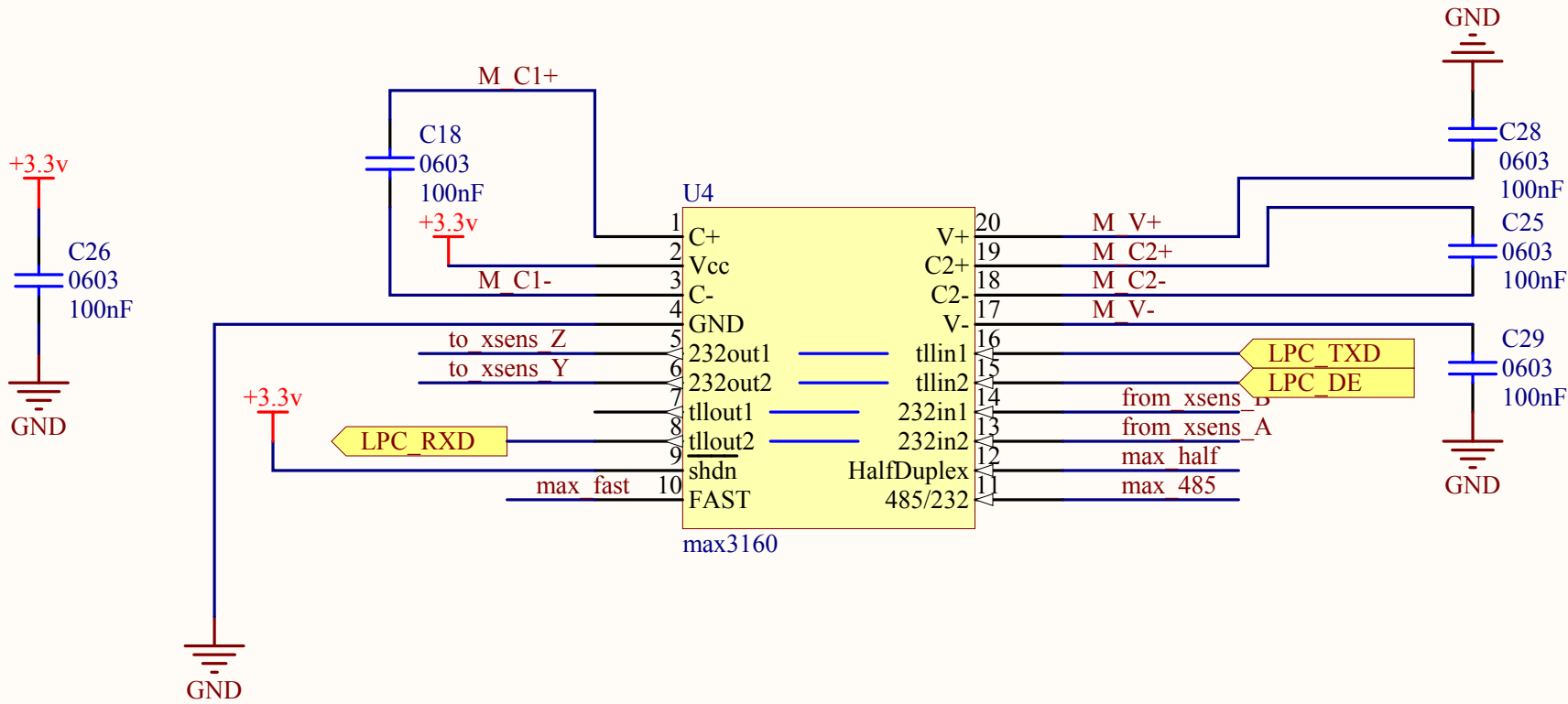
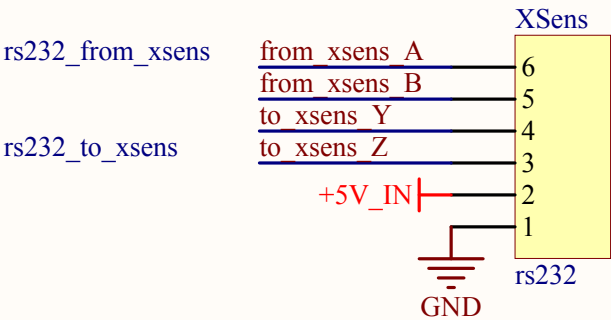
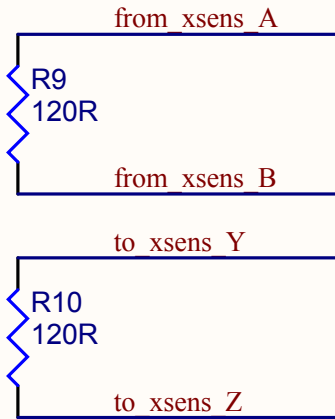
D

1

2

3

4



Title		
Size	Number	Revision
A4		
Date:	7/1/2010	Sheet of
File:	C:\Documents and Settings\...\rs232.SchDoc	Drawn By:

1

2

3

4

Comment	Description	Designator	Footprint	LibRef	Quantity	Supplier 1	Supplier Part Number 1	Farnell
	Mini USB Connector	USB	miniUSB	USB_Host	1			1125348
1k		R1, R2, R3, R4, R5, R6, R7, R15, R23, R24, R29, R30, R33, R34	0603RES	RES1	14			
1.5K		R16, R18, R36	0603RES	RES1	3	Digi-Key		
1.8k		R19	0603RES	RES1	1	Digi-Key		
3.3k		R21	0603RES	RES1	1	Digi-Key		
10K		R8, R11, R14, R17, R31, R32, R35	0603RES	RES1	7	Digi-Key	541-10.0KLCT-ND	
18pF		C7, C8, C21, C22	0603	CAP	4	Digi-Key	445-1238-1-ND	
33		R20, R22	0603RES	RES1	2	Digi-Key	541-33.0LCT-ND	
33uF/6V		C24, C34, C39	T491A	ELECTRO1	3	Digi-Key	399-4719-1-ND	
100nF		C1, C2, C3, C4, C5, C6, C9, C10, C11, C12, C13, C14, C16, C17, C19, C20, C23, C30, C31, C32, C33, C35, C36, C38, C40	0603	CAP	25			
100uF/20V		C27, C37	T491D	ELECTRO1	2			
120R		R9_0, R9_1, R10_0, R10_1	0603RES	RES1	4			
330		R37	0603RES	RES1	1	Digi-Key	541-330LCT-ND	
0603	Capacitor	C15, C18_0, C18_1, C25_0, C25_1, C26_0, C26_1, C28_0, C28_1, C29_0, C29_1	0603	Cap	11			
4017		U1	4017PW	4017	1	Digi-Key	296-14252-1-ND	
Analog	Header, 5-Pin	Analog	HDR1X5	Header 5	1			
BC807	PNP general purpose transistor (GRZ 10/2007)	T1	BC807	BC807	1	Digi-Key	568-1629-1-ND	
Boot/GPS	Header, 4-Pin	J4	HDR1X4	Header 4	1			
CTS405 12MHz	Crystal 12 Mhz SMD (DMT 06/2007)	Q1	CTS_405	CRYSTAL_CTS_405	1	Digi-Key	CTX639CT-ND	
Digital	Header, 2-Pin	Aux	HDR1X2	Header 2	1			
Digital	Header, 3-Pin	I2C	HDR1X3	Header 3	1			
Fast		R12_0, R12_1	0603RES	RES1	2			
Full		R28_0, R28_1	0603RES	RES1	2			
Half		R25_0, R25_1	0603RES	RES1	2			
Header 3	Header, 3-Pin	RC	HDR3	Header 3	1			
KP-1608SURC	Led rouge 0603 (GRZ 10/2007)	LED1	KP-1608SURC	KP-1608SURC	1	Digi-Key	754-1123-1-ND	
LPC2148FBD64	Single-chip ARM7 32 bit microcontroller (GRZ 04/2007)	U2	LPC2148FBD64	LPC2148FBD64	1	Digi-Key	568-1765-ND	
LT1963AEST-3.3	Régulateur 3.3v LDO (GRZ 09/2007)	U3, U5	LM3940IMP-3.3	LM3940IMP-3.3	2	Digi-Key	LT1963AEST-3.3#PBF-ND	
max3160		U4_0, U4_1	SSOP20	max3160	2			
P1	Header, 3-Pin	P1	HDR1X3	Header 3	1			
P2	Header, 3-Pin	P2	HDR1X3	Header 3	1			
PTH_08080W		IC1	PTH_08080W	PTH_08080W	1	Digi-Key	296-20432-ND	
RS232		R27_0, R27_1	0603RES	RES1	2			
rs232	Header, 6-Pin	RS232/422, XSense	HDR1X6	Header 6	2			
RS485		R13_0, R13_1	0603RES	RES1	2			
S1	Header, 3-Pin	S5	HDR3	Header 3	1			
S3	Header, 3-Pin	S6	HDR3	Header 3	1			
S4	Header, 3-Pin	S2	HDR3	Header 3	1			
S5	Header, 3-Pin	S4	HDR3	Header 3	1			
S6	Header, 3-Pin	S8	HDR3	Header 3	1			
S7	Header, 3-Pin	S7	HDR3	Header 3	1			
S8	Header, 3-Pin	S3	HDR3	Header 3	1			
S9	Header, 3-Pin	S1	HDR3	Header 3	1			
Slewed		R26_0, R26_1	0603RES	RES1	2			
Spi	Header, 5-Pin	SPI	HDR1X5	Header 5	1			
SUPPLY	Header, 2-Pin	BAT, Switch	HDR1X2	Header 2	2			
TPS2051B	Current Limited Power Distribution Switch (GRZ 10/2007)	U6	TPS2051B	TPS2051B	1	Digi-Key	296-21265-1-ND	
USB	Header, 4-Pin	USB2	HDR1X4	Header 4	1			
XBee Comm Module	Header, 10-Pin, Dual	XBee	Xbee	Xbee	1			