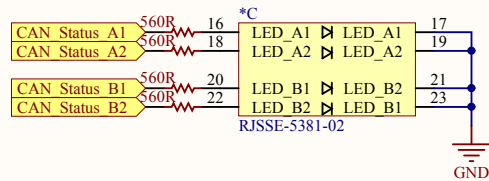
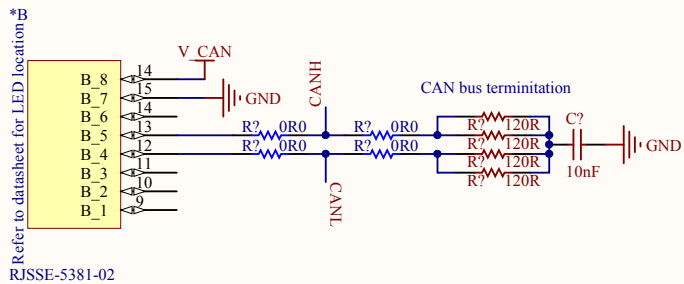
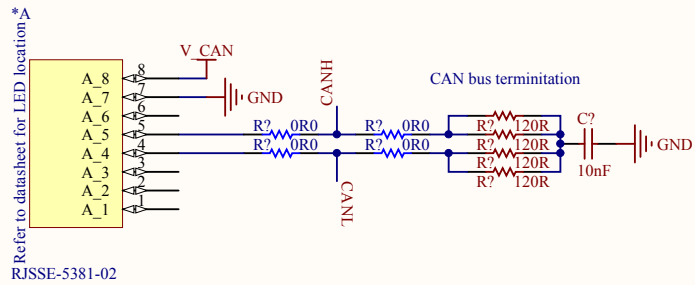
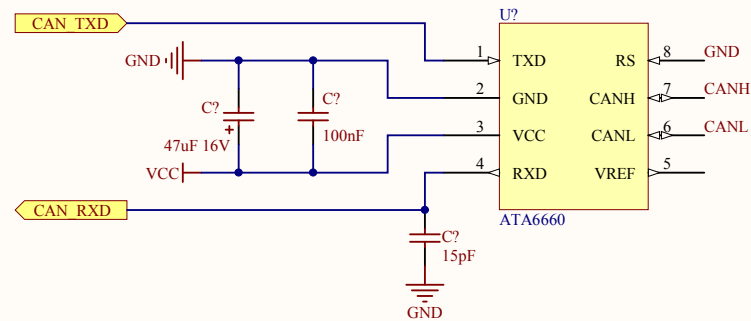



The ratio here is important, not the values

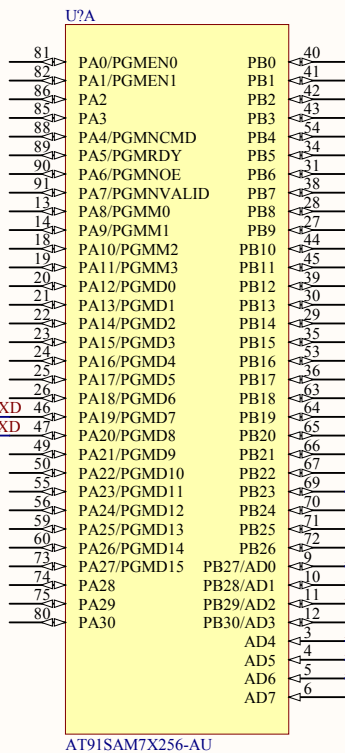
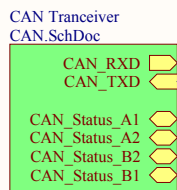
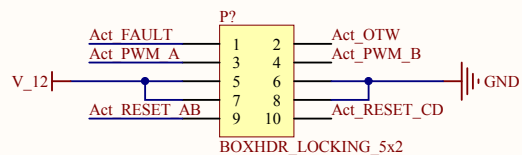
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Date:	25/05/2011	Sheet of
File:	J:\mariokart\accelerator.SchDoc	Drawn By:



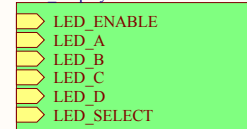
CAN Transceiver



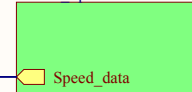
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Drawn by:	Revision: 1	University of Canterbury	
Date: 25/05/2011	Time: 11:06:43 a.m.	Christchurch 8041	
File: J:\mariokart\Altium\Main Board\CAN.SchDoc	Sheet of	New Zealand	



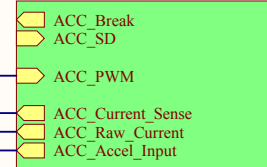
LED Display
LED_Display.SchDoc



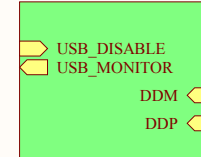
Speed Sensor
Sensor_Speed.SchDoc



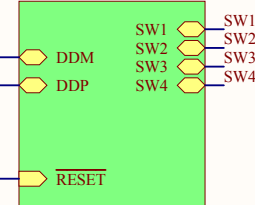
Student Board Replacemnet
accelerator.SchDoc



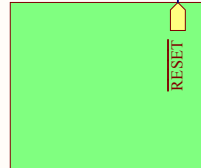
USB Connector
USB.SchDoc



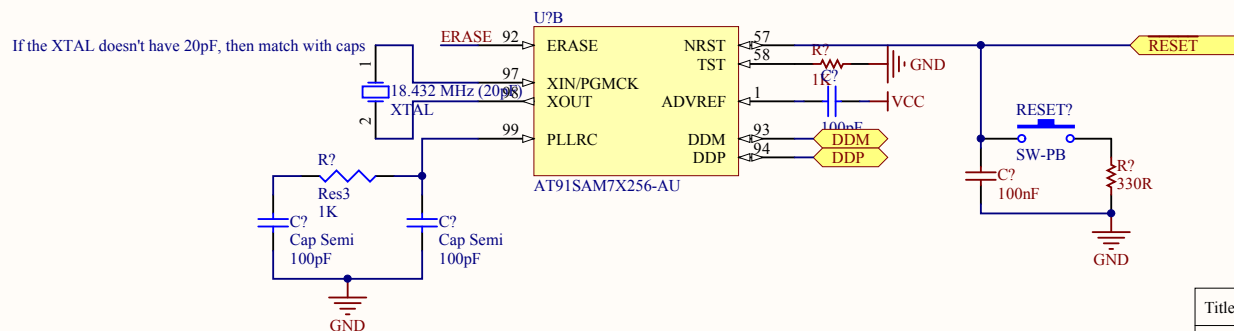
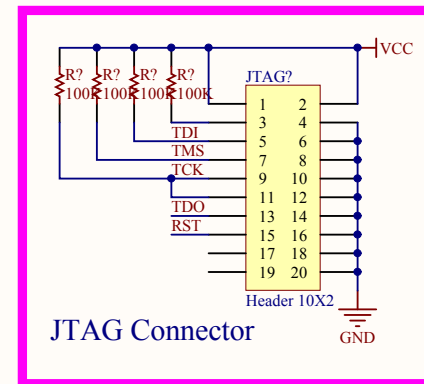
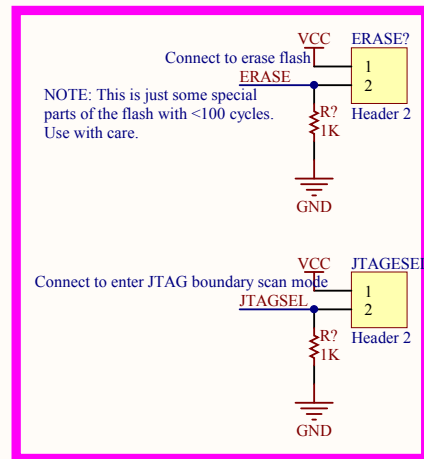
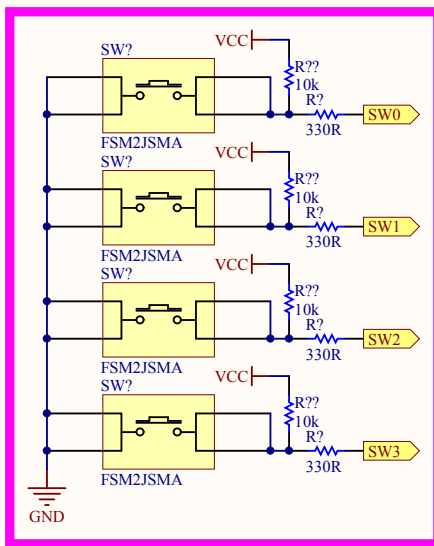
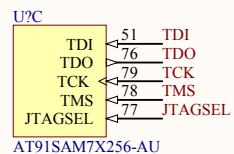
Other.SchDoc



Power Supply
Power.SchDoc



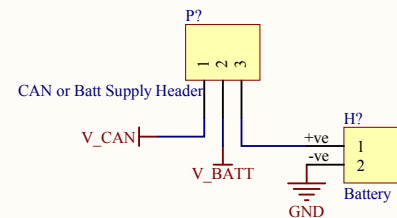
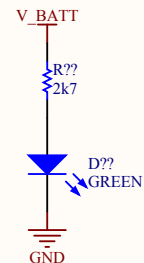
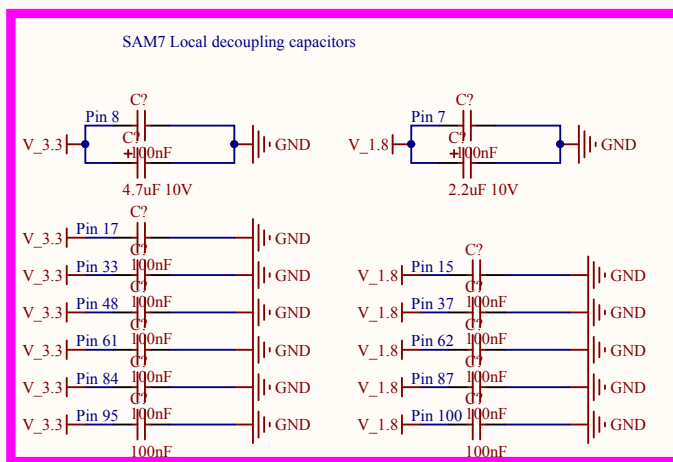
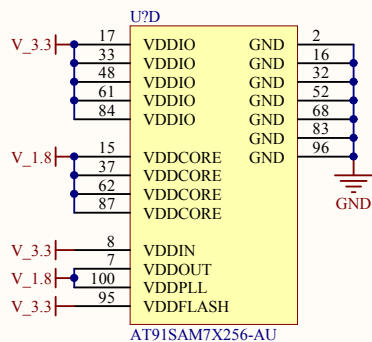
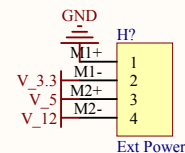
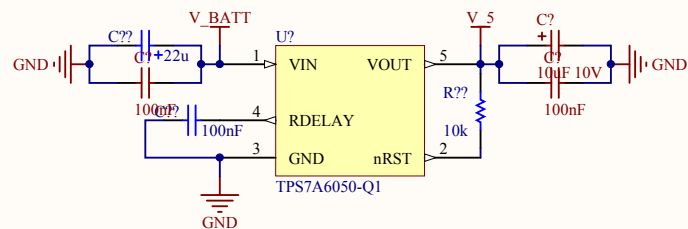
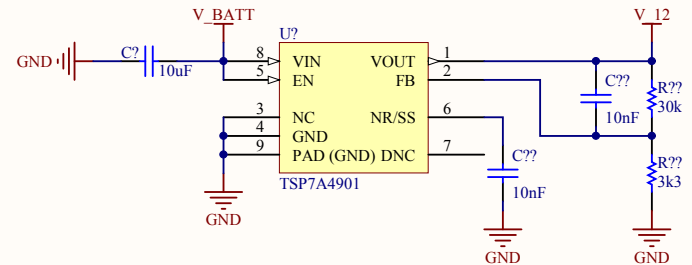
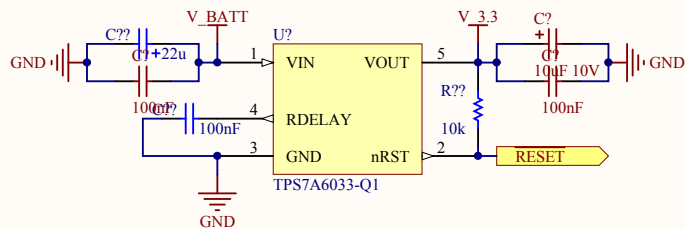
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Size: A4	Number:	Revision:		
Date: 25/05/2011	Time: 11:06:43 a.m.	Sheet of		
File: J:\mariokart\Altium\Main Board\Main.SchDoc				




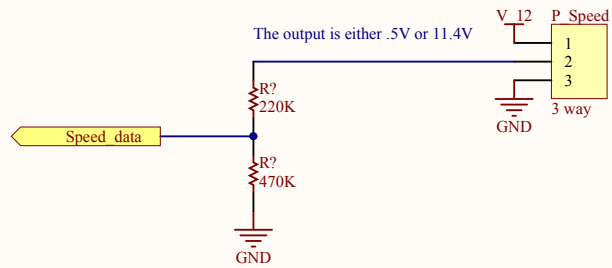
Reset override

Title			Altium Limited
Size: A4			3 Minna Close
Number:			Belrose
Revision:			NSW 2085
Date: 25/05/2011			Australia
Time: 11:06:43 a.m.			
Sheet of			
File: J:\mariokart\Altium\Main Board\Other\SchDoc			

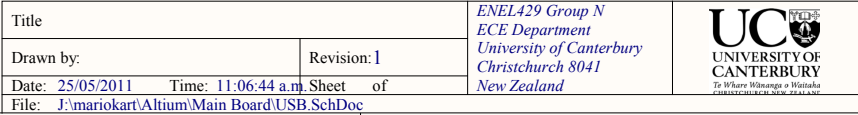




Title			<i>Altium Limited</i> <i>3 Minna Close</i> <i>Belrose</i> <i>NSW 2085</i> <i>Australia</i>	
Size: A4	Number:	Revision:		
Date: 25/05/2011	Time: 11:06:43 a.m.	Sheet of		
File: J:\mariokart\Altium\Main Board\Power.SchDoc				



Title			
Size A4	Number		Revision
Date:	25/05/2011		Sheet of
File:	J:\mariokart\...\Sensor_Speed.SchDoc		Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
RJSSSE-5381-02				RJSSSE-5381-02	1
XTAL	Crystal Oscillator	18.432 MHz (20pF)	BCY-W2/D3.1	XTAL	1
Cap	Capacitor	08, C7	RAD-0.3	Cap	2
2.2uF 10V	SM Tantalum Cap	C7	TANT3216	TANT2.2UF_10V_3216	1
4.7uF 10V	SM Tantalum Cap	C7	TANT3216	TANT4.7UF_10V_3216	1
10nF	0603 Capacitor	C7	CC0603	10nF_CC0603	2
10uF	CAP 10UF 10% 10V XSR 0805	C7	0805	CP_10uF 0805	1
10uF 10V	SM Tantalum Cap	C7	TANT3216	TANT10UF_10V_3216	2
15pF	0603 Capacitor	C7	CC0603	15pF_CC0603	1
47uF 16V	SM Tantalum Cap	C7	TANT7343	TANT47UF_16V_7343	1
100nF	0603 Capacitor	C7	CC0603	100nF_CC0603	19
Cap Semi	Capacitor (Semiconductor SIM Model)	C7	CAPC3216L	Cap Semi	3
10nF	CAP CER 10000PFF 100V XTR 0603	C77	0603	CP_10nF 0603	2
100nF	CAP CER 100UF 50V XSR 0603	C77	0603	CP_100nF 0603	2
CP_TANT_22uF	CAP TANT 22UF 35V 10% SMD	C77	6032	CP_TANT_22UF_35V	2
LED Green	Green LED 0805	D77	DIC0E_0805	DIL_LED Green 0805	1
Header 2	Header, 2-Pin	ERASE7, JTAGSEL7, P2, P4, P7	HDR1X2	Header 2	5
Battery	5.08mm Pluggable Terminal Header	H7		JP_ENEL429 Header 2	1
Ext Power	5.08mm Pluggable Terminal Header	H7		JP_ENEL429 Header 4	1
Header 10X2	Header, 10-Pin, Dual row	JTAG7	HDR2X10	Header 10X2	1
Header 3	Header, 3-Pin	P3	HDR1X3	Header 3	1
Header 4	Header, 4-Pin	P5, P6	HDR1X4	Header 4	2
BOXHDR_LOCKIN C_5x2	Box Header 5x2 with wing locks	P7	BOXHDR_LOCKIN 5_2x5	BOXHDR_LOCKIN 5_5x2	1
CAN or Ball Supply Header	Header, 3-Pin	P7	HDR1X3	Header 3	1
3 way	3 way upright Locking & Polarising Header Connector	P_Speed	Con_3way_0.1	Con3s100m	1
ZXM61N02F	20V N-Channel enhancement mode MOSFET	Q1	SOT-23	TF_ZXM61N02F	1
ZXM61P02F	20V P-Channel enhancement mode MOSFET	Q2	SOT23	TF_ZXM61P02F	1
ZXM61N03FTA	MOSFET N HD0605 Vds=30V, Id=1.4A, sot-23	Q7	SOT-23	ZXM61N03FTA	1
Res3	Resistor	R6, R7, R8, R9, R7	RESC1608L	Res3	5
10k	RES 10.0K OHM 1/10W 1% 0603 SMD	R10, R11, R12, R13, R14, R15, R16, R77	0603	RS_10k 0603	13
180R	RES 180XOHM 1/10W 1% 0603 SMD	R17, R18, R20, R21, R22, R23, R24, R25	0603	RS_180R 0603	8
680R	RES 680 OHM 1/10W 1% 0603 SMD	R18	0603	RS_680R 0603	1
1K	0603 Resistor	R7	R0603	1K_R0603	3
1K5	0603 Resistor	R7	R0603	1K5_R0603	1
27K	0603 Resistor	R7	R0603	27K_R0603	1
27R	0603 Resistor	R7	R0603	27R_R0603	2
47K	0603 Resistor	R7	R0603	47K_R0603	1
100K	0603 Resistor	R7	R0603	100K_R0603	4
120K	0603 Resistor	R7	R0603	120K_R0603	8
220K	0603 Resistor	R7	R0603	220K_R0603	1
330K	0603 Resistor	R7	R0603	330K_R0603	2
330R	RES 330 OHM 1/10W 1% 0603 SMD	R7	0603	RS_330R 0603	4
330R	0603 Resistor	R7	R0603	330R_R0603	1
470K	0603 Resistor	R7	R0603	470K_R0603	1
960R	0603 Resistor	R7	R0603	960R_R0603	4
2k7	RES 2.7K OHM 1/10W 5% 0603 SMD	R77	0603	RS_2k7 0603	1
3k3	RES 3.3K OHM 1/10W 5% 0603 SMD	R77	0603	RS_3k3 0603	1
30k	RES 30K OHM 1/10W 1% 0603 SMD	R77	0603	RS_30k 0603	1
SW-PB	Switch	RESET7	SPST-2	SW-PB	1
FSM2J5MA	DPST SMD Switch	SW7	FSM2J5MA	SW_FSM2J5MA	4
ATmega8-16AC	8-Bit AVR Microcontroller with 8K Bytes of In-System Programmable Flash Memory	U1	32A_N	ATmega8-16AC	1
SN74LS47	SN74LS47	U2	SCP127P7800X200 16N	SN74LS47	1
HDSM-541C	2.0" character segment display	U3	HDSM-541C	HDSM-541C	1
AT91SAM7X256-AU	Smart ARM Microcontroller, ARM7TDMI 32-bit RISC CPU, 256KB Flash and 64KB SRAM, 100-Pin LQFP, Industrial, Pb-Free	U7	LQFP100_N	AT91SAM7X256-AU	4
ATA6660		U7	SOIC127P800X150 8N	ATA6660	1
TPS7A6033-Q1		U7	1Y0170P1524X483 6N	TPS7A6033-Q1	1
TPS7A6050-Q1		U7	1Y0170P1524X483 8N	TPS7A6050-Q1	1
TSPT7A4901		U7	NSC065490X110 _HS-8N	TSPT7A4901	1
USB	USB Type B connec	USB7	USB-B	USB-B	1