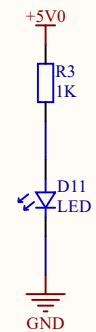
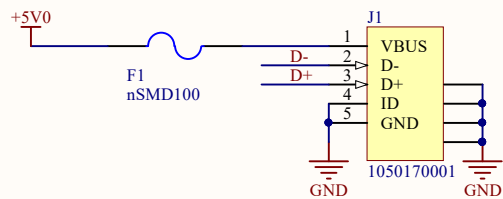
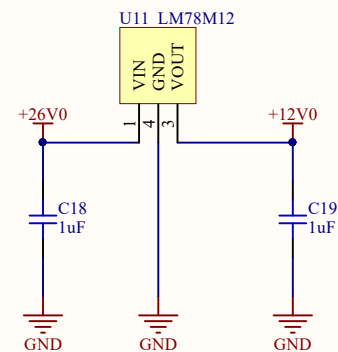
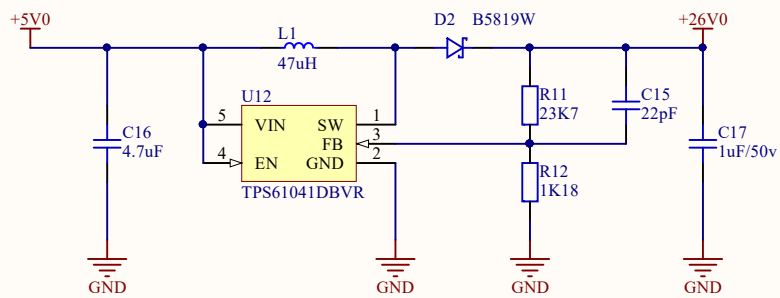
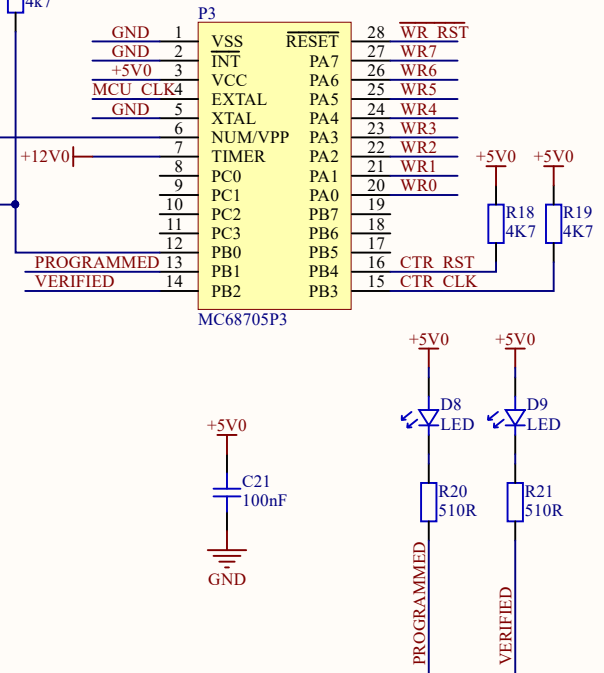
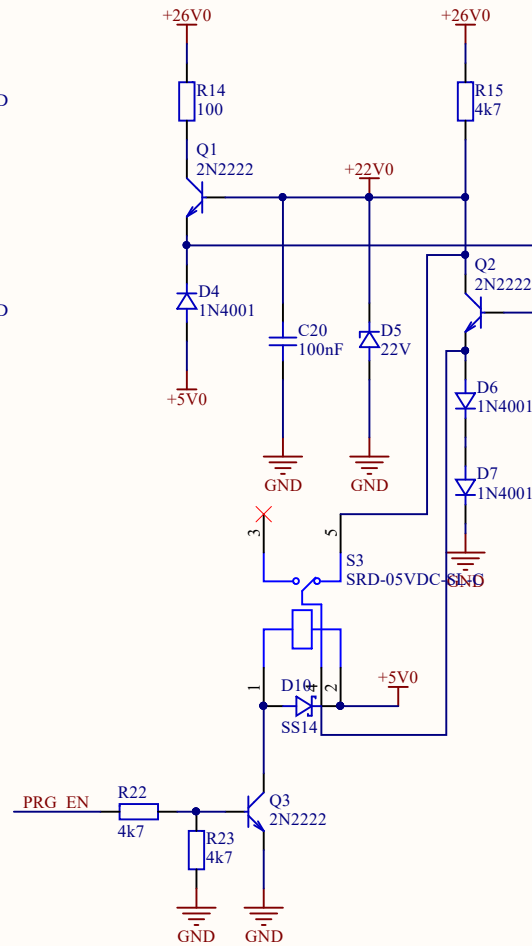
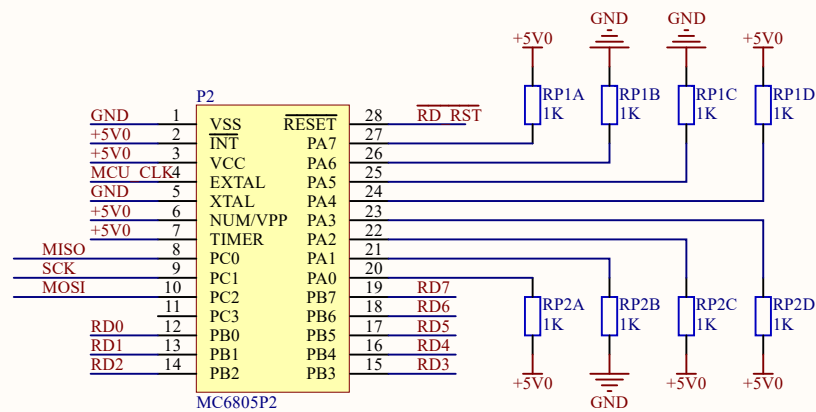


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Size	Number	Revision
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Date:	2016/10/31	Sheet of
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Title		
Size	Number	Revision
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Date:	2016/10/31	Sheet of
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Designator	Footprint	Description	Comment	Quantity
P2	28P_DIP_SOCKET		MC6805P2	1
P3	28P_DIP_SOCKET		MC68705P3	1
C1, C2, C3, C4, C5, C6, C9, C11, C12, C20, C21, C22	CAPC2012N	Surface Mount Unpolarized Capacitor	100nF	12
C10	CAPC2012N	Surface Mount Unpolarized Capacitor	10uF	1
C13, C14	CAPC2012N	Surface Mount Unpolarized Capacitor	15pF	2
C15	CAPC2012N	Surface Mount Unpolarized Capacitor	22pF	1
C16	CAPC2012N	Surface Mount Unpolarized Capacitor	4.7uF	1
C17	CAPC2012N	Surface Mount Unpolarized Capacitor	1uF/50v	1
C18, C19	CAPC2012N	Surface Mount Unpolarized Capacitor	1uF	2
C7, C8	CAPC2012N	Surface Mount Unpolarized Capacitor	20pF	2
D4, D6, D7	DIOM5326X230N	Surface Mount General Purpose Diode	1N4001	3
F1	FUSE3216N	0.5A 6V Resetable Fuse	nSMD100	1
P1	HEADER2X3		ICSP Header(NC)	1
D8, D9, D11	LEDC2012N	Surface Mount LED	LED	3
X1	OSCCC250X320X100 N	Surface Mount Crystal	12MHz	1
X2	OSCCC250X320X100 N	Surface Mount Crystal	16MHz	1
L1	PWRIND_SWRH5D28 S	Power Inductor	47uH	1
U4	QFP80P900X900-32N	8-Bit Microcontroller	ATMEGA328-AU	1
R1, R2	RESC2012N	Surface Mount Resistor	10K	2
R11	RESC2012N	Surface Mount Resistor	23K7	1
R12	RESC2012N	Surface Mount Resistor	1K18	1
R20, R21	RESC2012N	Surface Mount Resistor	510R	2
R3	RESC2012N	Surface Mount Resistor	1K	1
R4, R16, R18, R19, R22, R23	RESC2012N	Surface Mount Resistor	4K7	6
R14	RESC3216N	Surface Mount Resistor	100	1
R15	RESC3216N	Surface Mount Resistor	4k7	1
RP1, RP2	RESCAXS80P150X320 X45-8N	0603X4 Resistor Pack	1K	2
D1, D2	SOD3716X135N	Surface Mount General Purpose Diode, Surface Mount Diode	B5819W	2
D10	SOD3716X135N	Surface Mount Diode	SS14	1
D5	SOD3716X135N	Surface Mount Zener Diode	22V	1
U1	SOP65P780-28N	USB to Serial Bridge Controller	PL2303TA	1
Q1, Q2, Q3	SOT23-3N	Surface Mount NPN Transistor	2N2222	3
U12	SOT23-5_L	TPS6104x Low-Power DC-DC Boost Converter in SOT-23 and WSON Packages	TPS61041DBVR	1
U2, U3, U5, U6, U7, U8, U9, U10	SOT363-6N		SGM3157	8
S3	SRD-xVDC-SL-C	Single Pole Double Throw Relay	SRD-05VDC-SL-C	1
S2	TACT_4X4		TACT	1
U11	TO252-3N	3-Terminal Positive Voltage Regulators	LM78M12	1
J1	USB_MICRO_2	USB 2.0, Right Angle	1050170001	1