

A

B

C

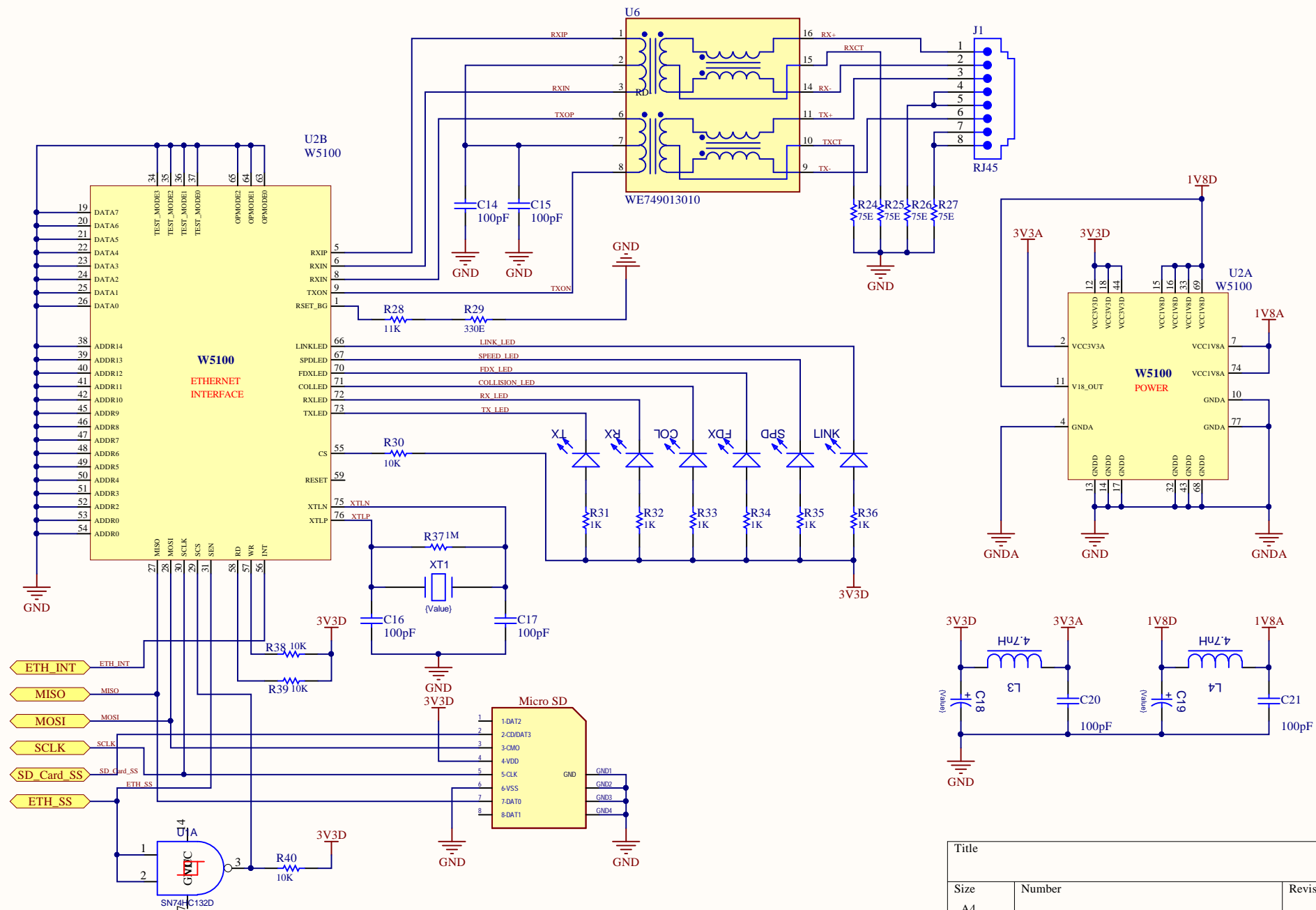
D

A

B

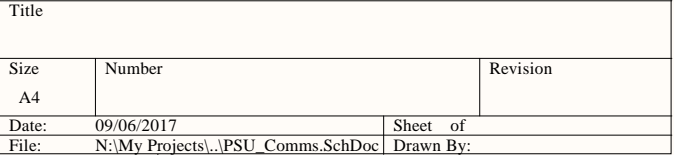
C

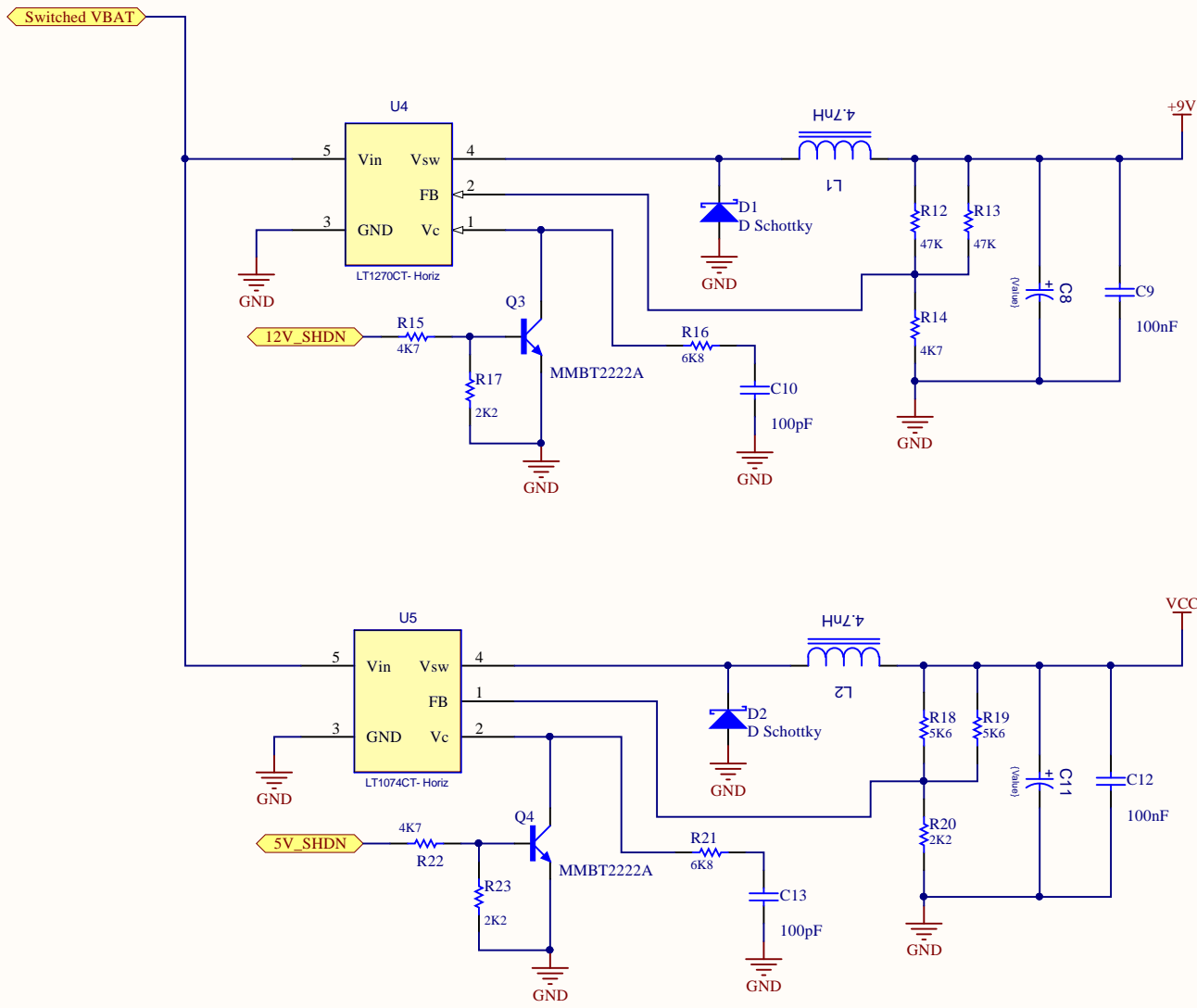
D



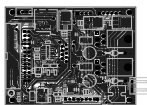
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Size	Number	Revision
A4		
Date:	09/06/2017	Sheet of
File:	N:\My Projects\...\Comms.SchDoc	Drawn By:







Title		
Size	Number	Revision
A4		
Date:	09/06/2017	Sheet of
File:	N:\My Projects\...\SMPS.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
NTD4909NT4G	NTD4909NT4G	AC-FET, CHG FET, DSG FET, Q1	DPAK	NTD4909NT4G	4
IDC9	amtec 9Ways Male Connector Straight Friction	BAT	HDR1X9 - Frict	CON9M_SIL_Friction	1
Switched Batt (+12V6)	IDC26M Right Angle	BATT/COMMS	IDC26M- Horiz	IDC26M-RA	1
Cap 0805	Capacitor SMD	C1, C2, C4, C6, C7, C9, C12, C14, C15, C16, C17, C20, C21, C34, C37	C-0805	Cap 0805	15
Cap Tantalum TH	Tantalum Capacitor SMD	C3	C-TANT#C	C-TANT#C	1
Cap Elect,SMD 470 uF 10x10.5 HT	SMD Electrolytic Capacitor	C5	470 uF 10x10.5 HT	Cap Elect,SMD 470 uF 10x10.5 HT	1
Cap Tantalum TH	Tantalum Capacitor SMD	C8, C11	C-TANT#D	C-TANT#D	2
Wima Cap	Wima Capacitor	C10	Cap - Wima 60x250x700	Cap-Wima 60x250x700	
Wima Capacitor	Wima Capacitor	C13	Cap - Wima 60x250x700	Cap-Wima 60x250x700	1
Cap Tantalum TH	Tantalum Capacitor SMD	C18, C19, C38	C-TANT#A	C-TANT#A	3
Cap 0805	Capacitor SMD	C22, C23, C25, C26, C27, C28, C29, C30, C31, C32, C33, C35, C36, C39, C41	CAP0603	Cap 0805	15
Cap 0603	Capacitor SMD	C40	C-0805	Cap 0805	1
LOAD	LOAD	Charger	PWR2_H	LOAD	1
LED-SMD_0805-RED	LED 0805 Red	COL	LED3mm-Through Hole	LED-SMD_0805-RED	
CON6M	6Way Friction Connector Straight Friction Single In Line	COM1	HDR1X6 - Friction	CON6M_SIL_Friction	1
CON Cways	amtec 4Way Friction Connector Straight Single In Line	COM2	HDR1X4_H	CON4_SIL_Friction	1
D Schottky	Schottky Diode	D1, D2	Shottkey TH	D Schottky	2
MM3Z5V3C	Zener Diode	D3, D4, D5	SD0323	MM3Z5V3	3
BAT54HT	Zener Diode	D6, D7	SMD123F	BAT54H	2
LED-SMD_0805-GREEN	LED SMD 0805-GREEN	FDX LINK, RX SPD, TX	LED-0805 - Red	LED-SMD_0805-GREEN	5
RJ45	Right Angle, Standard Profile, RJ45-Keyed, Flange Mount PCB Jack	J1	RJ45 - VERT	RJ45	1
INDUCTOR SMT Coilcraft	INDUCTOR-100uH SMT	L1, L2	Coilcraft LP	INDUCTOR SMT Coilcraft	2
INDUCTOR- SMT_IHLP2020	INDUCTOR-100uH square	L3	IHLP2020	INDUCTOR- SMT_IHLP2020	1
Ferrite Bead-SMT 0805	Ferrite Bead -SMT 0805	L3, L4	L-0805	Ferrite Bead-SMT 0805	2
LED-3mm_R	LED 3mm Red	LED1	LED3mm-Through Hole	LED-3mm_R	1
SDCARD	SD Card SDCARD 15TW 8821	Micro SD	SDCARD-15TW-8821	SDCARD	
PB PMT	Panel mount Switch TH	ON/OFF	HDR1X2	PB PMT	1
MMBT2222A	NPN Switching Transistor	Q2, Q3, Q4	SOT-23	MMBT2222A	3
IRLML2502	HEXFET Power MOSFET	Q5, Q6, Q7	SOT-23	IRLML2803	3
Resistor - SMD 0805	Resistor - SMD 0805	R1, R2	R-0805 - 100K	R0805 - 100K	2
Resistor - SMD 0805	Resistor - SMD 0805	R3	R-0805 - 5M1	R0805 - 5M1	1
Resistor - SMD 0805	Resistor - SMD 0805	R4, R31, R32, R33, R34, R35, R36	R-0805 - 1K	R0805 - 1K	7
Resistor - SMD 0805	Resistor - SMD 0805	R5, R17, R20, R23	R-0805 - 2K2	R0805 - 2K2	4
Resistor - SMD 0805	Resistor - SMD 0805	R6, R16, R21	R-0805 - 6K8	R0805 - 6K8	3
Resistor - SMD 0805	Resistor - SMD 0805	R7, R8, R9, R30, R38, R39, R40	R-0805 - 10K	R0805 - 10K	7
Resistor - SMD 0805	Resistor - SMD 0805	R12, R13	R-0805 - 47K	R0805 - 47K	2
Resistor - SMD 0805	Resistor - SMD 0805	R14, R15, R22	R-0805 - 4K7	R0805 - 4K7	3
Resistor - SMD 0805	Resistor - SMD 0805	R18, R19	R-0805 - 5K6	R0805 - 5K6	2
Resistor - SMD 0805	Resistor - SMD 0805	R24, R25, R26, R27	R-0805 - 75E	R0805 - 75E	4
Resistor - SMD 0805	Resistor - SMD 0805	R28	R-0805 - 12K	R0805 - 12K, 1%	1
Resistor - SMD 0805	Resistor - SMD 0805	R29	R-0805 - 330E	R0805 - 330E	1
Resistor - SMD 0805	Resistor - SMD 0805	R37	R-0805 - 1M	R0805 - 1M	1
				R0805 - 1M, R0805 - 5K6, R0805 - 1M, R0805 - 1M, R0805 - 5K6, R0805 - 5K6, R0805 - 100E, R0805 - 100E, R0805 - 100E, R0805 - 100E, R0805 - 100E, R0805 - 100E, R0805 - 100E, R0805 - 100E, R0805 - 100E, R0805 - 100E, R0805 - 100E, R0805 - 100E, R0805 - 100E, R0805 - 1K, R0805 - 100K, R0805 - 10K, R0805 - 10K, R0805 - 330K, R0805 - 22E, R0805 - 100E, R0805 - 10E, R0805 - 100E	25
Resistor - SMD 0805	Resistor - SMD 0603	R41, R42, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R68, R?	R-0603	R-1206	4
Resistor - SMD 1206	Resistor - SMD 1206	R43, R44, R66, R67	R1206	R-1206	25
Resistor - SMD 2512	Resistor - SMD 0603	R69	R-0603	R2512 - 10ME	1
SN74HC132D	QUAD 2-Input NAND Schmitt Trigger	U1	SN74HC132D	SN74HC132D	1
W5100		U2	W5100	W5100	1
	Adjustable Regulator with 3.7 to 38 V Input and 1.2 to 32 V Output, -40 to 125 deg.C				
LM317-SOT223		U3	LM317_SOT-223	LM317-SOT223	1
LT1270CT- Horiz	Step-down Switching Regulator	U4	LT1270_TO-220-5_H	LT1270CT- Horiz	1
LT1074CT- Horiz	LT1074CT		LT1074_TO-220-5_H	LT1074CT- Horiz	1
WE749013010	Ethernet Magnetic IC	U6	WE 749013010	WE749013010	1
BO40Z60	Programmable Battery Pack Manager	U7	II-V0FN32	BO40Z60	1
CRYSTAL-25MHz - Low P	Crystal Vert Metal Can	XT1	XTAL - HC495 25MHz	CRYSTAL-25MHz - Low P	1