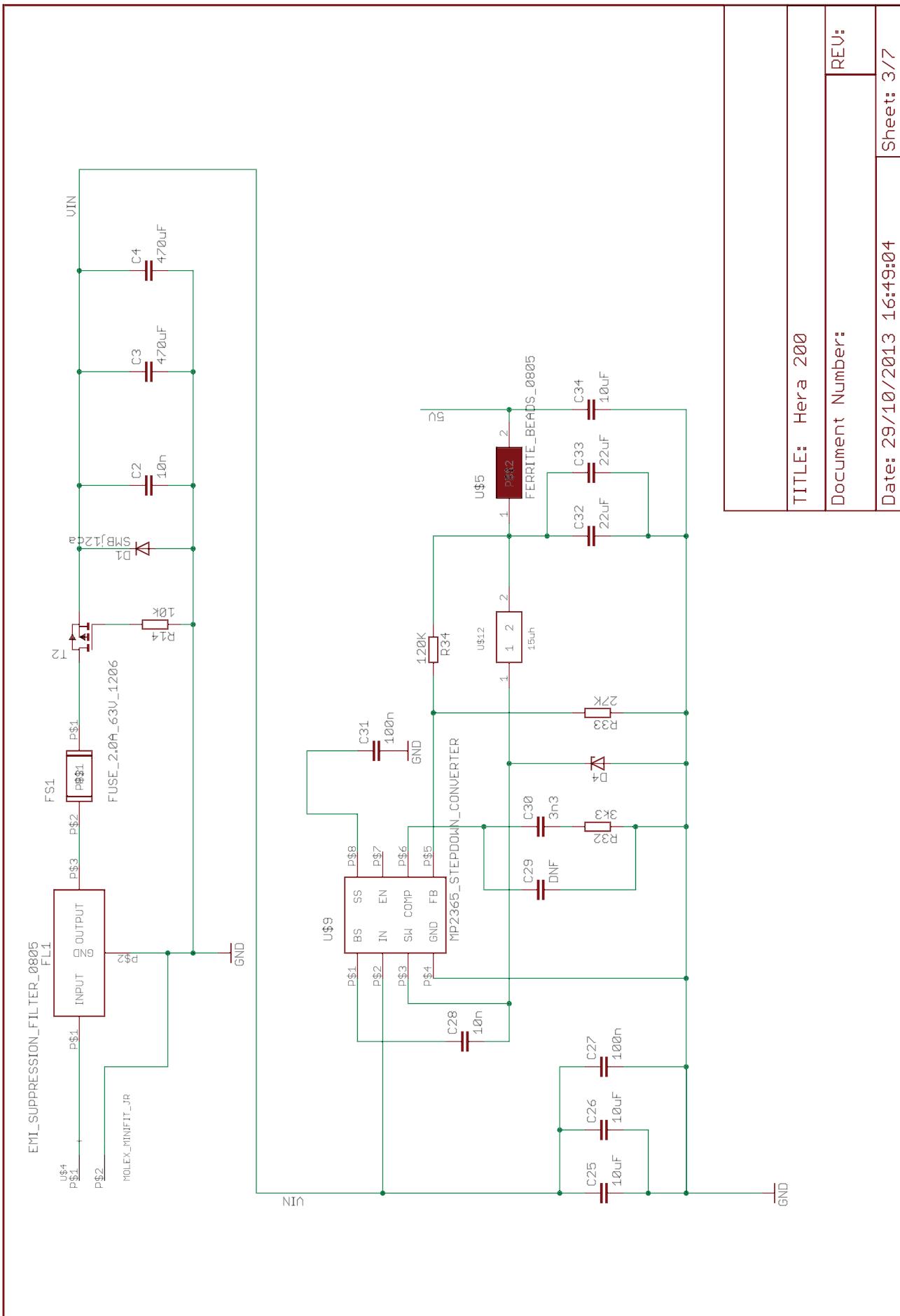
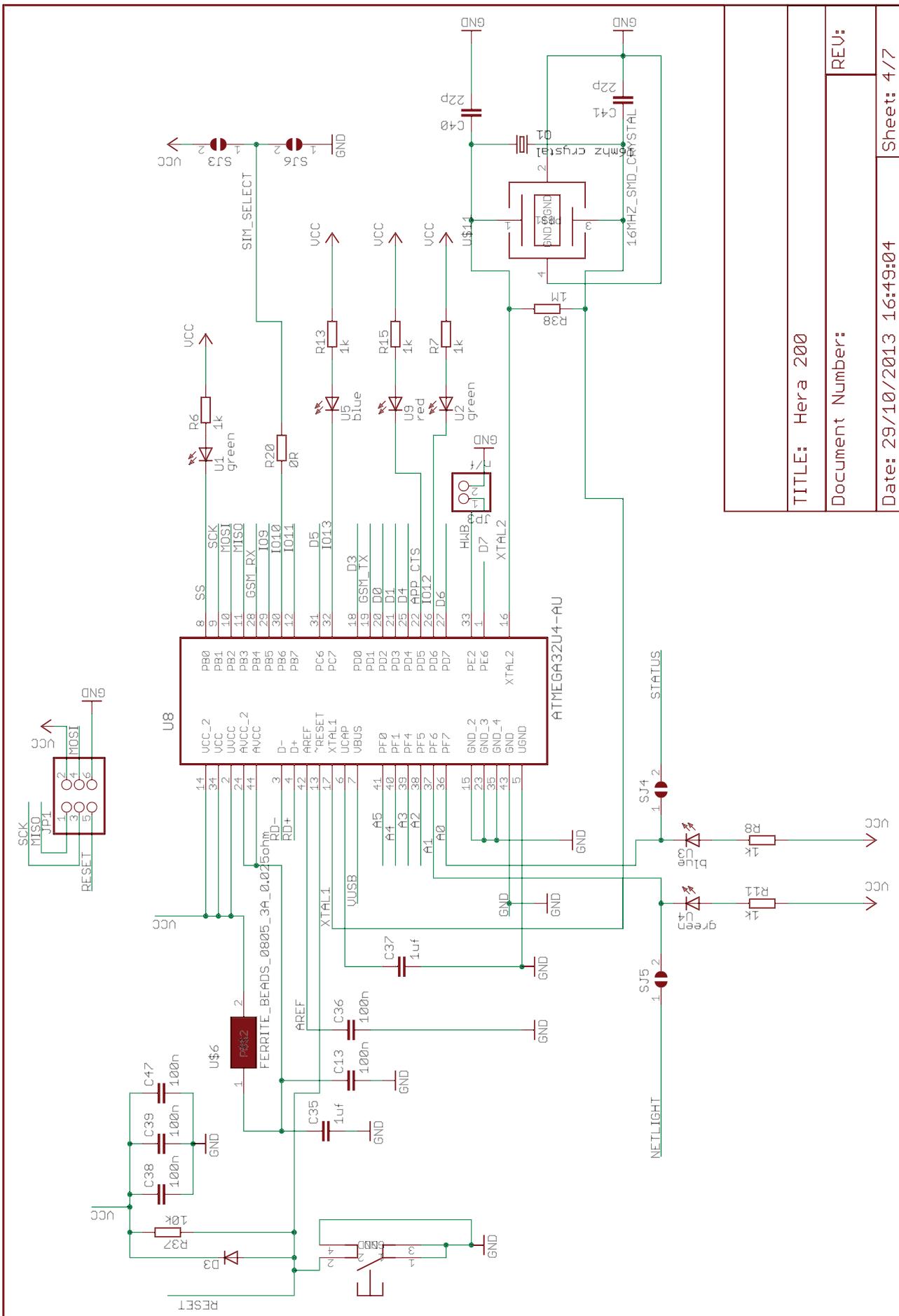
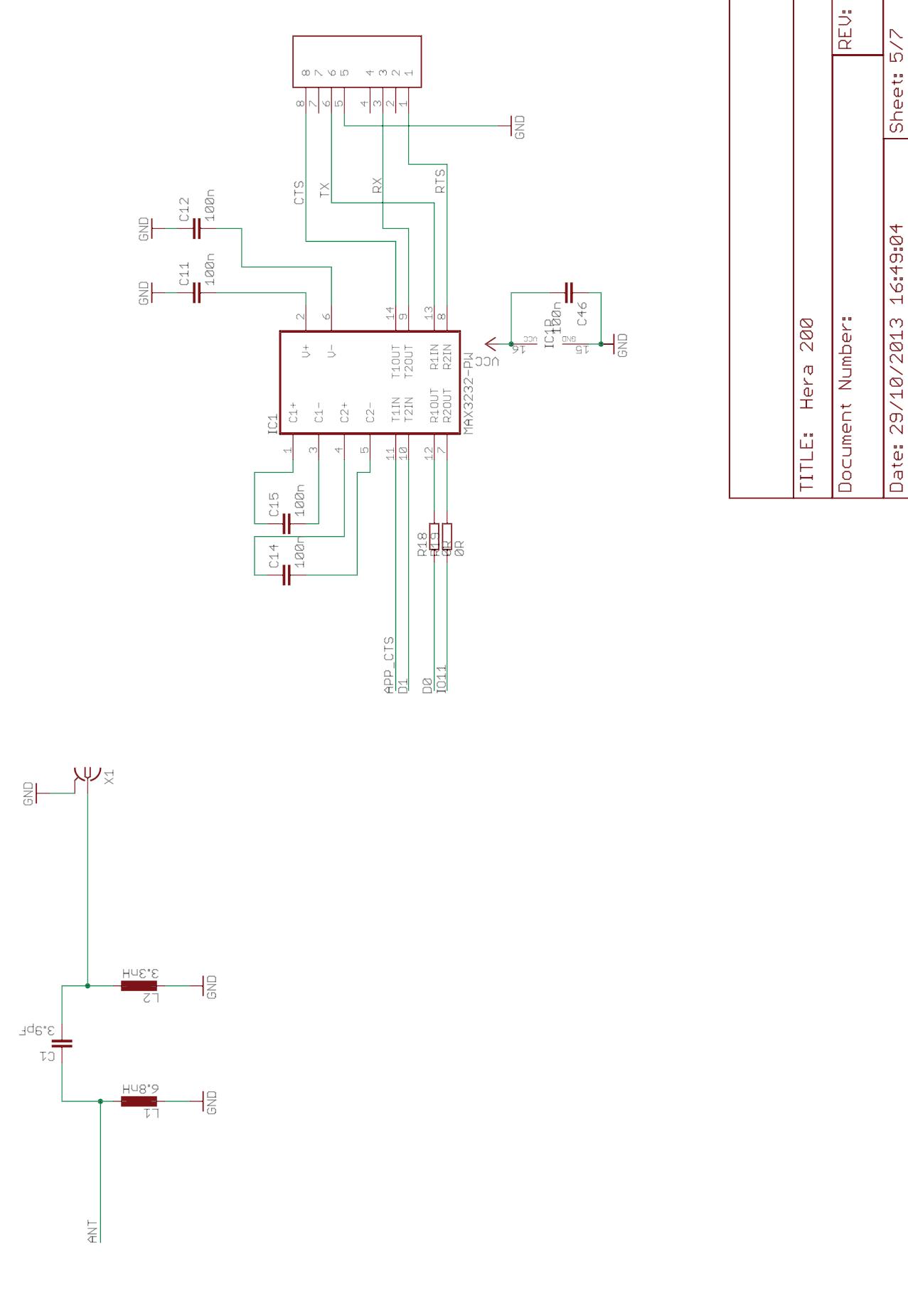


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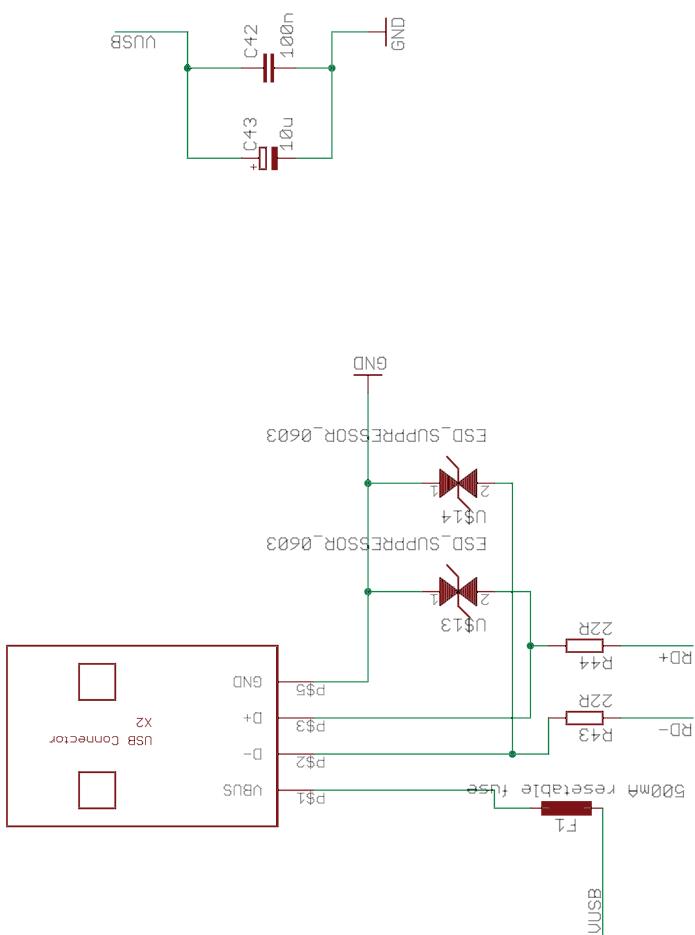
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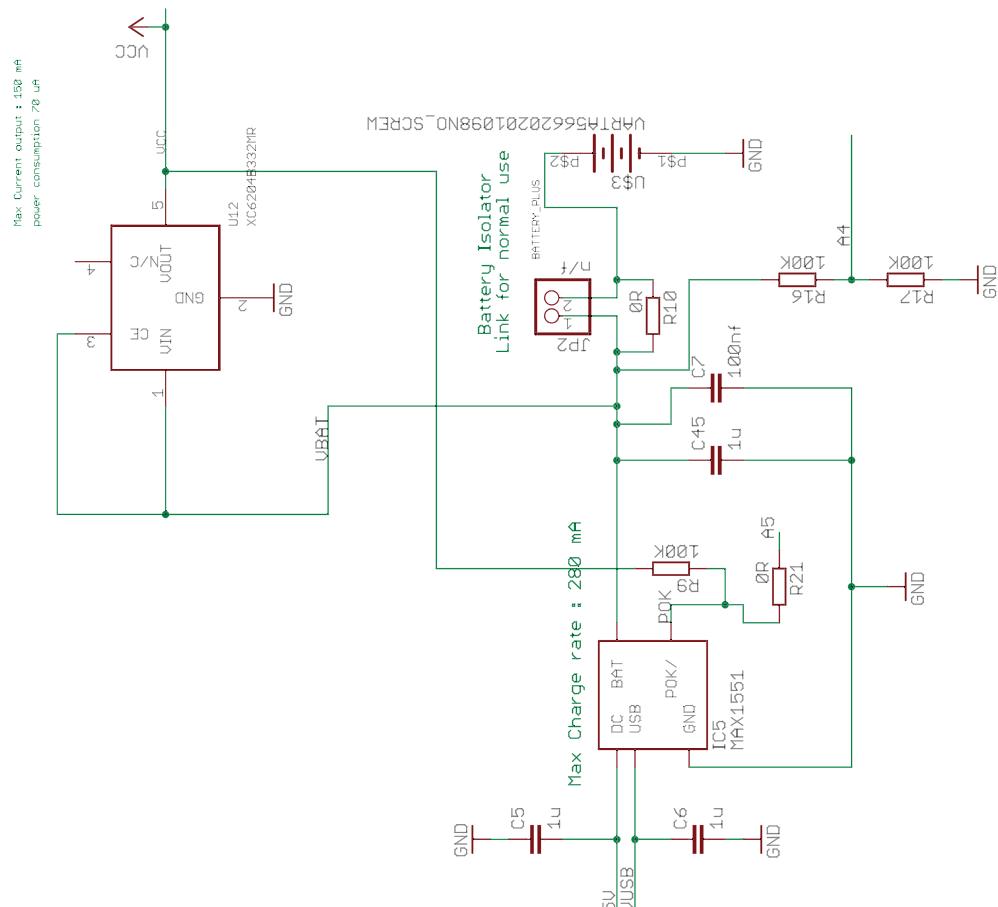
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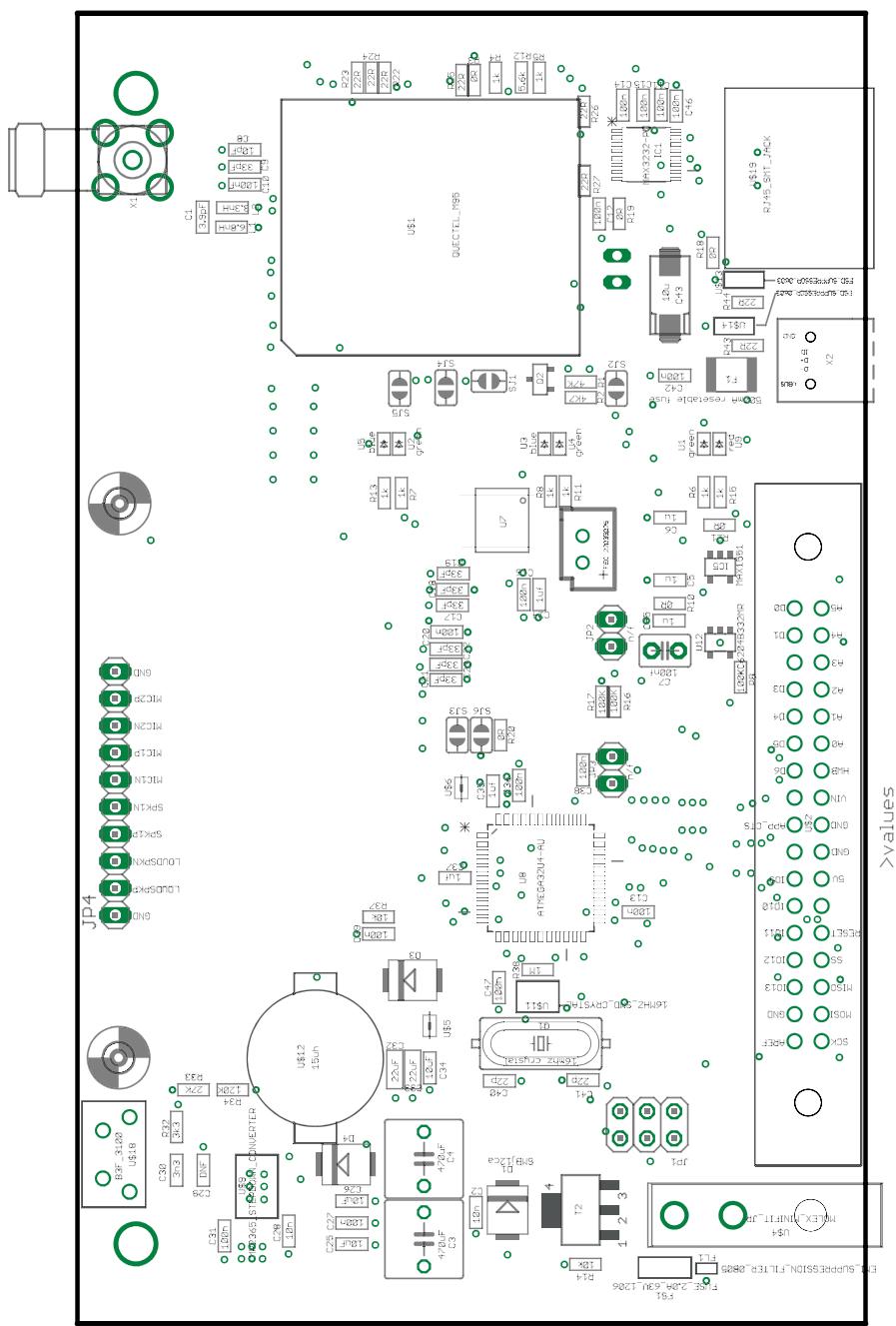
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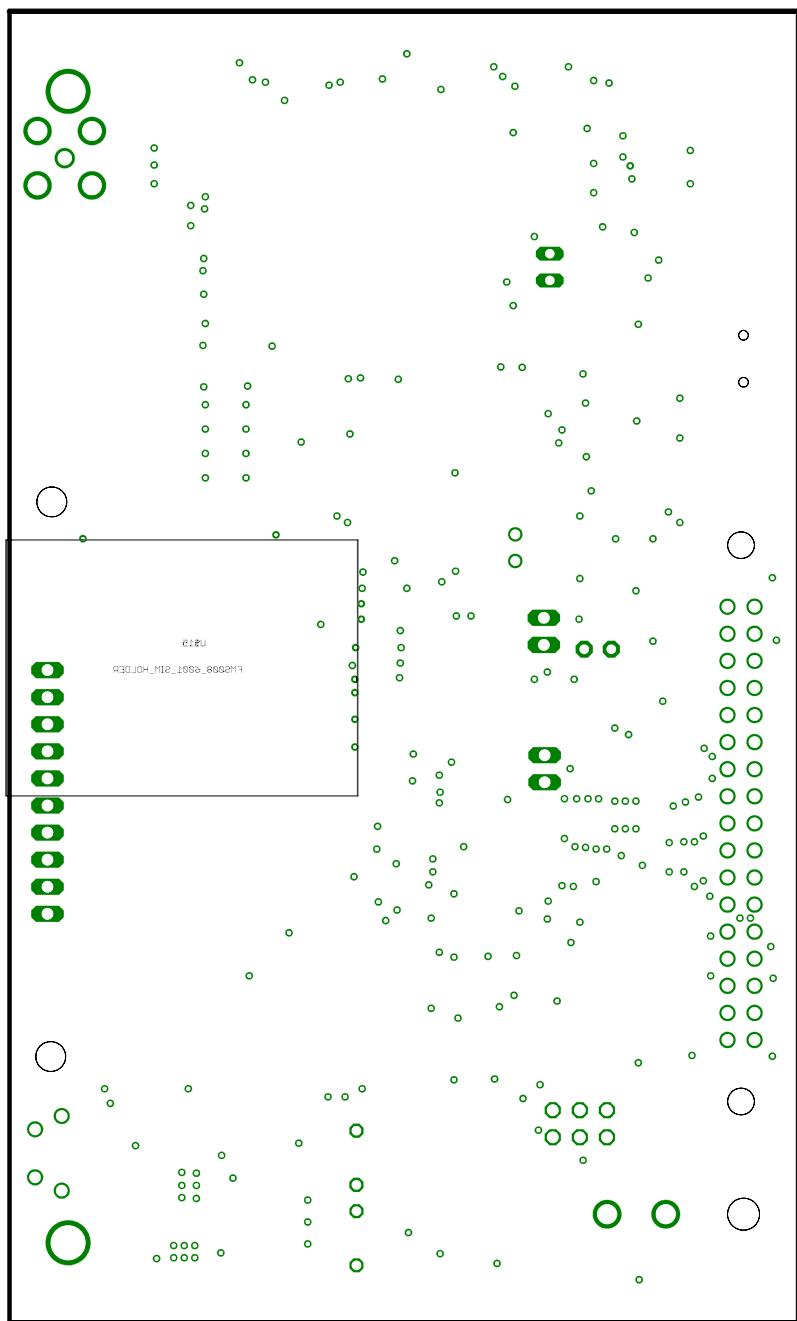
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**Bill of Material from Hera 200.sch, 131 parts, as of 06/11/2013 15:42:00**

<b>Part</b>	<b>Value</b>	<b>Description</b>	<b>supplier1</b>	<b>order code</b>
C1	3.9pF	CAPACITOR, European symbol	Farnell	721918
C2	10n	CAPACITOR, European symbol	Farnell	431-590
C3	470uF	CAPACITOR, European symbol	Farnell	9692843
C4	470uF	CAPACITOR, European symbol	Farnell	9692843
C5	1u	CAPACITOR, European symbol	Farnell	1288256
C6	1u	CAPACITOR, European symbol	Farnell	1288256
C7	100nf	CAPACITOR	Farnell	1902938
C8	10pF	CAPACITOR, European symbol	Farnell	1759053
C9	33pF	CAPACITOR, European symbol	Farnell	1759059
C10	100nF	CAPACITOR, European symbol	Farnell	1759123
C11	100n	CAPACITOR, European symbol	Farnell	431989
C12	100n	CAPACITOR, European symbol	Farnell	431989
C13	100n	CAPACITOR, European symbol	Farnell	431989
C14	100n	CAPACITOR, European symbol	Farnell	431989
C15	100n	CAPACITOR, European symbol	Farnell	431989
C16	100n	CAPACITOR, European symbol	Farnell	431989
C17	33pF	CAPACITOR, European symbol	Farnell	1759059
C18	33pF	CAPACITOR, European symbol	Farnell	1759059
C19	33pF	CAPACITOR, European symbol	Farnell	1759059
C20	100n	CAPACITOR, European symbol	Farnell	431989
C21	33pF	CAPACITOR, European symbol	Farnell	1759059
C22	33pF	CAPACITOR, European symbol	Farnell	1759059
C23	33pF	CAPACITOR, European symbol	Farnell	1759059
C24	1uf	CAPACITOR, European symbol	Farnell	1759399
C25	10uF	CAPACITOR, European symbol	Farnell	1759393
C26	10uF	CAPACITOR, European symbol	Farnell	1759393
C27	100n	CAPACITOR, European symbol	Farnell	431989
C28	10n	CAPACITOR, European symbol	Farnell	431-590
C29	DNF	CAPACITOR, European symbol		
C30	3n3	CAPACITOR, European symbol	Farnell	722-200
C31	100n	CAPACITOR, European symbol	Farnell	431989
C32	22uF	CAPACITOR, European symbol	Farnell	1759415
C33	22uF	CAPACITOR, European symbol	Farnell	1759415
C34	10uF	CAPACITOR, European symbol	Farnell	1759393
C35	1uf	CAPACITOR, European symbol	Farnell	1759399
C36	100n	CAPACITOR, European symbol	Farnell	431989
C37	1uf	CAPACITOR, European symbol	Farnell	1759399
C38	100n	CAPACITOR, European symbol	Farnell	431989
C39	100n	CAPACITOR, European symbol	Farnell	431989
C40	22p	CAPACITOR, European symbol	Farnell	722-005
C41	22p	CAPACITOR, European symbol	Farnell	722-005
C42	100n	CAPACITOR, European symbol	Farnell	431989
C43	10u	POLARIZED CAPACITOR, European symbol	Farnell	2069174
C45	1u	CAPACITOR, European symbol	Farnell	1288256
C46	100n	CAPACITOR, European symbol	Farnell	431989
C47	100n	CAPACITOR, European symbol	Farnell	431989
D1	SMBj12ca	DIODE	Farnell	1017827
D3		DIODE	Farnell	2211947
D4		Z-Diode	Farnell	4085175
F1	500mA resetable fuse	INDUCTOR, European symbol	Farnell	1861195
FL1	EMI_SUPPRESSION_FILTER_0805		Farnell	1686518
FS1	FUSE_2.0A_63V_1206		Farnell	1843829
H1	MOUNT-HOLE2.8	MOUNTING HOLE with drill center marker		
H4	MOUNT-HOLE2.8	MOUNTING HOLE with drill center marker		
IC1	MAX3232-PW	RS232 TRANSEIVER	Farnell	9663967
IC5	MAX1551		Farnell	1628221
JP1		PIN HEADER	Farnell	105-6428
JP2	n/f	PIN HEADER		n/f
JP3	n/f	PIN HEADER		n/f
JP4		PIN HEADER	Farnell	412-9416
L1	6.8nH	INDUCTOR, European symbol	Farnell	1515395
L2	3.3nH	INDUCTOR, European symbol	Farnell	1515388
Q1	16mhz crystal	CRYSTAL	Farnell	1667017
Q2		NPN TRANSISTOR	Farnell	1653622
R1	47K	RESISTOR, European symbol	Farnell	9331255

R2	4K7	RESISTOR, European symbol	Farnell	9331247
R3	0R	RESISTOR, European symbol	Farnell	9233130
R4	1k	RESISTOR, European symbol	Farnell	9330380
R5	1k	RESISTOR, European symbol	Farnell	9330380
R6	1k	RESISTOR, European symbol	Farnell	9330380
R7	1k	RESISTOR, European symbol	Farnell	9330380
R8	1k	RESISTOR, European symbol	Farnell	9330380
R9	100K	RESISTOR, European symbol	Farnell	9330402
R10	0R	RESISTOR, European symbol	Farnell	9233130
R11	1k	RESISTOR, European symbol	Farnell	9330380
R12	5.6k	RESISTOR, European symbol	Farnell	2073537
R13	1k	RESISTOR, European symbol	Farnell	9330380
R14	10k	RESISTOR, European symbol	Farnell	933-0399
R15	1k	RESISTOR, European symbol	Farnell	9330380
R16	100K	RESISTOR, European symbol	Farnell	9330402
R17	100K	RESISTOR, European symbol	Farnell	9330402
R18	0R	RESISTOR, European symbol	Farnell	9233130
R19	0R	RESISTOR, European symbol	Farnell	9233130
R20	0R	RESISTOR, European symbol	Farnell	9233130
R21	0R	RESISTOR, European symbol	Farnell	9233130
R22	22R	RESISTOR, European symbol	Farnell	1469781
R23	22R	RESISTOR, European symbol	Farnell	1469781
R24	22R	RESISTOR, European symbol	Farnell	1469781
R25	22R	RESISTOR, European symbol	Farnell	1469781
R26	22R	RESISTOR, European symbol	Farnell	1469781
R27	22R	RESISTOR, European symbol	Farnell	1469781
R32	3k3	RESISTOR, European symbol	Farnell	2074241
R33	27K	RESISTOR, European symbol	Farnell	9330933
R34	120K	RESISTOR, European symbol	Farnell	9238735
R37	10k	RESISTOR, European symbol	Farnell	933-0399
R38	1M	RESISTOR, European symbol	Farnell	9330410
R43	22R	RESISTOR, European symbol	Farnell	1469781
R44	22R	RESISTOR, European symbol	Farnell	1469781
SJ1		SMD solder JUMPER		
SJ2		SMD solder JUMPER		
SJ3		SMD solder JUMPER		
SJ4		SMD solder JUMPER		
SJ5		SMD solder JUMPER		
SJ6		SMD solder JUMPER		
T2		MOS FET	Farnell	2061514
U\$1	QUECTEL_M95			
U\$2	34_WAY_LATCH_CONNECTOR		Farnell	2215284
U\$3	VARTA56620201098NO_SCREW		Farnell	9979611
U\$4	MOLEX_MINIFIT_JR		Farnell	1012166
U\$5	FERRITE_BEADS_0805		Farnell	1669752
U\$6	FERRITE_BEADS_0805_3A_0.025ohm		Farnell	1669752
U\$9	MP2365_STEPPDOWN_CONVERTER		Mouser	946-MP2365DNLF
U\$10	N/F			
U\$11	16MHZ_SMD_CRYSTAL		Farnell	1841977
U\$12	15uh		Farnell	1828052
U\$13	ESD_SUPPRESSOR_0603		Farnell	1838966
U\$14	ESD_SUPPRESSOR_0603		Farnell	1838966
U\$15	FMS008_6001_SIM HOLDER		Dataflex	Dataflex
U\$18	B3F_3100		Farnell	959704
U\$19	RJ45_SMT_JACK		Farnell	2063741
U1	green	LED	Farnell	1226372
U2	green	LED	Farnell	1226372
U3	blue	LED	Farnell	2251460
U4	green	LED	Farnell	1226372
U5	blue	LED	Farnell	2251460
U7	CHIPSIM		Eseye	EM01
U8	ATMEGA32U4-AU	8-bit Microcontroller with ISP Flash and USB Controller	Farnell	1748525
U9	red	LED	Farnell	1226389
U12	XC6204B332MR	V REG LDO +3.3V, SMD, 6204, SOT235	Farnell	1106658
X1		FEMALE SMA CONNECTOR	Farnell	4163011
X2	USB_MINI_B		Farnell	1125348

## Bill of Material from Hera 200.sch, 131 parts, grouped by values, as of 06/11/2013 15:53:09

Qty supplier1 order code	Value	Description	Part
1 Farnell 721918	3.9pF	CAPACITOR, European symbol	C1
2 Farnell 431-590	10n	CAPACITOR, European symbol	C2, C28
2 Farnell 9692843	470uF	CAPACITOR, European symbol	C3, C4
3 Farnell 1288256	1u	CAPACITOR, European symbol	C5, C6, C45
1 Farnell 1902938	100nf	CAPACITOR	C7
1 Farnell 1759053	10pF	CAPACITOR, European symbol	C8
7 Farnell 1759059	33pF	CAPACITOR, European symbol	C9, C17, C18, C19, C21, C22, C23
1 Farnell 1759123	100nF	CAPACITOR, European symbol	C10
15 Farnell 431989	100n	CAPACITOR, European symbol	C11, C12, C13, C14, C15, C16, C20, C27, C31, C36, C38, C39, C42, C46, C47
3 Farnell 1759399	1uf	CAPACITOR, European symbol	C24, C35, C37
3 Farnell 1759393	10uF	CAPACITOR, European symbol	C25, C26, C34
1	DNF	CAPACITOR, European symbol	C29
1 Farnell 722-200	3n3	CAPACITOR, European symbol	C30
2 Farnell 1759415	22uF	CAPACITOR, European symbol	C32, C33
2 Farnell 722-005	22p	CAPACITOR, European symbol	C40, C41
1 Farnell 2069174	10u	POLARIZED CAPACITOR, European symbol	C43
1 Farnell 1017827	SMBj12ca	DIODE	D1
1 Farnell 2211947		DIODE	D3
1 Farnell 4085175		Z-Diode	D4
1 Farnell 1861195	500mA resetable fuse	INDUCTOR, European symbol	F1
1 Farnell 1686518	EMI_SUPPRESSION_FILTER_0805		FL1
1 Farnell 1843829	FUSE_2.0A_63V_1206		FS1
2	MOUNT-HOLE2.8	MOUNTING HOLE with drill center marker	H1, H4
1 Farnell 9663967	MAX3232-PW	RS232 TRANSEIVER	IC1
1 Farnell 1628221	MAX1551		IC5
1 Farnell 105-6428		PIN HEADER	JP1
2 n/f	n/f	PIN HEADER	JP2, JP3
1 Farnell 412-9416		PIN HEADER	JP4
1 Farnell 1515395	6.8nH	INDUCTOR, European symbol	L1
1 Farnell 1515388	3.3nH	INDUCTOR, European symbol	L2
1 Farnell 1667017	16mhz crystal	CRYSTAL	Q1
1 Farnell 1653622		NPN TRANSISTOR	Q2
1 Farnell 9331255	47K	RESISTOR, European symbol	R1
1 Farnell 9331247	4K7	RESISTOR, European symbol	R2
6 Farnell 9233130	0R	RESISTOR, European symbol	R3, R10, R18, R19, R20, R21
8 Farnell 9330380	1k	RESISTOR, European symbol	R4, R5, R6, R7, R8, R11, R13, R15
3 Farnell 9330402	100K	RESISTOR, European symbol	R9, R16, R17
1 Farnell 2073537	5.6k	RESISTOR, European symbol	R12
2 Farnell 933-0399	10k	RESISTOR, European symbol	R14, R37
8 Farnell 1469781	22R	RESISTOR, European symbol	R22, R23, R24, R25, R26, R27, R43, R44
1 Farnell 2074241	3k3	RESISTOR, European symbol	R32
1 Farnell 9330933	27K	RESISTOR, European symbol	R33

1	Farnell	9238735	120K	RESISTOR, European symbol	R34
1	Farnell	9330410	1M	RESISTOR, European symbol	R38
6				SMD solder JUMPER	SJ1, SJ2, SJ3, SJ4, SJ5, SJ6
1	Farnell	2061514		MOS FET	T2
1		QUECTEL_M95			U\$1
1	Farnell	2215284	34_WAY_LATCH_CONNECTOR		U\$2
1	Farnell	9979611	VARTA56620201098NO_SCREW		U\$3
1	Farnell	1012166	MOLEX_MINIFIT_JR		U\$4
1	Farnell	1669752	FERRITE_BEADS_0805		U\$5
1	Farnell	1669752	FERRITE_BEADS_0805_3A_0.025ohm		U\$6
1	Mouser	946-MP2365DNLF	MP2365_STEPPDOWN_CONVERTER		U\$9
1		N/F			U\$10
1	Farnell	1841977	16MHZ_SMD_CRYSTAL		U\$11
1	Farnell	1828052	15uh		U\$12
2	Farnell	1838966	ESD_SUPPRESSOR_0603		U\$13, U\$14
1	Dataflex	Dataflex	FMS008_6001_SIM HOLDER		U\$15
1	Farnell	959704	B3F_3100		U\$18
1	Farnell	2063741	RJ45_SMT_JACK		U\$19
3	Farnell	1226372	green	LED	U1, U2, U4
2	Farnell	2251460	blue	LED	U3, U5
1	Eseye	EM01	CHIPSIM		U7
1	Farnell	1748525	ATMEGA32U4-AU	8-bit Microcontroller with ISP Flash and USB Controller	U8
1	Farnell	1226389	red	LED	U9
1	Farnell	1106658	XC6204B332MR	V REG LDO +3.3V, SMD, 6204, SOT235	U12
1	Farnell	4163011		FEMALE SMA CONNECTOR	X1
1	Farnell	1125348	USB_MINI_B		X2