

LAN9514i Reference Design

REVISED: Jan. 4, 2010
Schematic Revision: 1.2

Bill Of Materials

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Item	Qty	Reference	Part	PCB Footprint	Manufacturer Part #
1	1	C1	4.7uF 6.3V	0603	Panasonic ECJ-1VB0J475M
2	16	C2,C3,C4,C5,C6,C7,C8,C9, C10,C13,C14,C15,C16,C17, C19,C25	0.1uF 10V	0402	Kemet C0402C104K8PACTU
3	1	C11	1.0uF 16V	0603	Kemet C0603C105K4PACTU
4	2	C12,C20	0.1uF 16V	0603	Kemet C0603C104K4RAC
5	1	C18	1.0uF 6.3V	0402	Kemet C0402C105K9PACTU
6	DNP 2	C21,C22	1.0uF 6.3V	0402	Kemet C0402C105K9PACTU
7	4	C23,C24,C26,C27	150uF 10V	CAPE_RAD_6R3_SMT	Panasonic EEV-FK1A151P
8	1	C28	.022uF	0805	Kemet C0805C223K5RAC
9	DNP 1	C29	0.01uF 50V	0603	AVX 06035C103KAT2A
10	DNP 4	C30,C31,C32,C33	15pF 50V	0402	Kemet C0402C150J5GACTU
11	2	C34,C35	33pF 50V	0402	Kemet C0402C330J5GAC
12	1	FB1	0.5amp 120 Ohm 100MHZ	0603	TDK MMZ1608S121A
13	2	FB2,FB3	2.0 Amp/0.05 DCR	0603	Murata BLM18PG121SN1D
14	1	JP1	1x3	Head1x3	Adam Tech PH1-03-U-A
15	5	LED1,LED2,LED3,LED4,LED5	Green	LED_0805	Ledtronics SML06PG4C-TR
16	1	P1	USB Type-B Right Angle	AMP_292304-1	AMP 292304-1
17	4	P2,P3,P4,P5	USB Type-A RA	USB_TYPE_A	FCI 87520-0010BLF
18	1	R1	825	0603	Rohm MCR03EZHF8250
19	1	R2	39.2K	0603	Rohm MCR03EZHF3922
20	1	R3	61.9K	0603	Rohm MCR03EZHF6192
21	1	R4	0	0805	Rohm MCR10EZJH000
22	4	R5,R12,R18,R22	332	0603	Rohm MCR03EZHF3320
23	4	R6,R7,R8,R9	511	0603	Rohm MCR03EZHF5110
24	1	R10	10.0K	0402	Rohm MCR01MZPF1002
25	1	R11	12.0K	0603	Yageo 9C06031A1202FKHFT
26	4	R13,R14,R15,R16	49.9	0402	Rohm MCR01MZPF49R9
27	1	R17	10.0	0402	Rohm MCR01MZPF10R0
28	1	R19	12.4K	0603	Rohm MCR03EZHF1242
29	2	R20, R21	10.0K	0603	Rohm MCR03EZHF1002
30	1	R23	1.00M	0603	Rohm MCR03EZHF1004
31	1	R24	0	1210	Rohm MCR25JZHJB000
32	1	T1	Würth Midcom MIC24011-5108	RJ45 w/ LEDs through hole	Würth Midcom MIC24011-5108
33	2	U1,U2	MIC2026-1BM	SOIC-8	Microel MIC2026-1BM
34	1	U3	93LC66A	SOIC-8	Microchip 93LC66A-I/SN
35	1	U4	LAN9514i	QFN64	SMSC LAN9514i-JZX
36	1	Y1	25.000MHZ	HC49US	Suntsu Freq. SCS20D48-25.000MHZ