

**LAN9500/LAN9500A MII Customer Evaluation Board
 ASSY 6516**
**REVISED: May 21, 2010
 PCB Revision C
 Schematic Revision: 1.2**

Bill Of Materials

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Item	Qty	Reference	Part	PCB Footprint	Manufacturer Part #
1	1	C1	0.022uF 50V	0805	Kemet C0805C223K5RACTU
2	DNP 4	C2,C3,C4,C5	15pF 50V	0603	Kemet C0603C150J5GAC
3	2	C6,C24	4700pF 50V	0603	Kemet C0603C472K5RACTU
4	2	C9,C10	30pF 50V	0603	Murata GRM1885C1H300JA01D
5	21	C11,C12,C13,C14,C15,C16, C17,C18,C19,C20,C21,C23, C25,C26,C27,C28,C29,C30, C31,C35,C36	0.1uF 16V	0603	Kemet C0603C104K4RACTU
6	3	C22,C33,C34	1.0uF 16V	0603	Kemet C0603C105K4PACTU
7	1	C32	22uF 16V	SMD_B	AVX TAJB226K016RNJ
8	4	FB1,FB2,FB3,FB4	0.5A / 120 Ohm / 100MHz	0603	TDK MMZ1608S121A
9	1	F1	2A/125V	FUSE_SMF	Littelfuse 0154002.DR
10	5	JP1,JP2,JP4,J5,JP6	1x2	HEADER_1x2_.100	Adam Tech PH1-2-U-A
11	3	JP3,JP5,JP7	1x3	HEADER_1x3_.100	Adam Tech PH1-03-U-A
12	1	J2	2x10	HEADER_2x10_.100	Adam Tech PH2-20-U-A
13	1	J3	1x10	HEADER_1X10_.100	Adam Tech PH1-10-U-A
14	1	J4	IIII Conn. Female RA	THRU_HOLE	AMP 5787170-4
15	1	J6	2x11	HEADER_2x11_.100	Adam Tech PH2-22-U-A
16	2	LED1,LED2	LED - Green	LED_0805	Lite-On LTST-C170GKT
17	1	P1	USB Conn. Type-B RA	THRU_HOLE	AMP 292304-1
18	1	P2	Jack - Power	THRU_HOLE	CUI PJ-102AH
19	4	R3,R4,R5,R6	49.9	0603	Rohm MCR03EZPFX49R9
20	7	R7*, R29,R53,R54,R55,R56,R58	0	0603	Rohm MCR03EZPJ000
21	2	R14*, R15	12.0K	0603	Yageo RC0603JR-0712KL
22	3	R20,R44,R61	332	0603	Rohm MCR03EZPFX3320
23	2	R21,R28	10M	0603	Rohm MCR03EZPJ106
24	DNP 1	R22*	1.00M	0603	Rohm MCR03EZPFX1004
25	1	R23	3.32K	0603	Rohm MCR03EZPFX3321
26	4	R24,R48,R51,R62	10.0K	0603	Rohm MCR03EZPFX1002
27	DNP 17	R25,R30,R32,R33,R34,R35, R36,R37,R38,R39,R40,R41, R42,R45,R46,R47,R49	10.0K	0603	Rohm MCR03EZPFX1002
28	DNP 1	R26	0	0603	Rohm MCR03EZPJ000
29	DNP 1	R27	1.00K	0603	Rohm MCR03EZPFX1001
30	1	R50	49.9K	0603	Rohm MCR03EZPFX4992
31	1	R52	100	0603	Rohm MCR03EZPFX1000
32	1	R57	604	0603	Rohm MCR03EZPFX6040
33	1	R59	20.5K	0603	Rohm MCR03EZPFX2052
34	1	R60	41.2K	0603	Rohm MCR03EZPFX4122
35	1	R63	10.0K	0402	Rohm MCR01MZPF1002
36	1	S1	Switch, Push Momentary	SW_MOM_PB	Panasonic EVQ-PJU04K
37	2	TP2,TP3	Test Point - 1x1	HEADER_1X1	Adam Tech PH1-01-U-A
38	DNP 1	TP4	1x2	HEADER_1x2_.100	Adam Tech PH1-2-U-A
39	1	T1	RJ45 Jack w/ Magnetics; Green, Yellow LED	THRU-HOLE_CUSTOM	Pulse J0011D01BNL

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40	1	U1	LAN9500 / LAN9500A	QFN56_8mm_x_8mm	SMSC LAN9500A-ABZJ
41	1	U2	SN74CBTLV3125PW	TSSOP14	SN74CBTLV3125PW
42	1	U3	93AA56A-OT	SOT23-6	Microchip 93AA56AT-I/OT
43	1	U4	MIC6315	SOT-143_BIG1	Micrel MIC6315-26D2UY TR
44	1	VR1	LP38693MP-3.3	SOT223_5	National LP38693MP-3.3/NOPB
45	1	Y1	25.000MHz	HC49US	Suntsu Freq. SCS20D-25.000MHZ

* Note: The LAN9500 & LAN9500A devices are pin compatible; however, some resistor values and population options differ between devices. The following resistor values should be used accordingly (default values are for the LAN9500A device):

Device	R7	R14	R22
LAN9500	10.0 Ohm 1%	12.4K Ohm 1%	1.0M Ohm 1%
LAN9500A	0 Ohm	12.0K Ohm 1%	DNP