

**PARTS LIST EXHIBIT FOR EASE SIMULATION INC., OBD ½ WIRELESS VEHICLE
INTERFACE**

FOR: EASE Simulation, Inc.
FCC ID No: O8A-WI-916
EUT: OBD ½ Wireless Vehicle Interface
MANUFACTURER: EASE Simulation Inc.
State Route 492, Box 3011
New Milford, PA 18834
John Yuron
570-489-1063
Contact for any questions Bridget A. Keesser
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BOM for Vehicle Unit

Assy Tree for: PCB-WVI12-1.1-916

PCB-WVI12-1.1-916

PCB Assembly,Scan tool,Wireless
I'face,Vehicle,OBDDII
916 MHz Scan Tool

Added C20 on 3/23/00

Type	PL	cost (10)
Revision	B	cost (50)
Status	U	cost (100)
Date	3/16/2000	cost (500)
By	mmc	Bin(LL,nn)

Item	Qty	Ref(t)	Title	Mfr	Mfr-P/N
1	1		PWB,Scan tool,Wireless I'face,OBDDII,Base and Vehicle,unpopulated	Milplex Circuits, Inc.	WVI12 rev 1.1
2	1	U1	I.C.,IC-PIC16F876-20/SP, programmed	EASE	IC-WBI12-1.0-U1
3	1	U2	I.C.,PLD,Bipolar,28.5MHz, 25ns	Advanced Micro	PALCE22V10Q-25PC/4
4	1	U3	I.C.,RS232,Dual,5V	Texas Instruments	MAX232N
5	1	U4	I.C.,RF Transceiver,FSK,916 MHz	Linx Tech	TR-916-SC
6	1	U5	I.C.,5 Volt Regulator	National Semi.	LM2940CT-5.0
7	2	U6 U7	I.C.,Quad Comparator	Texas Instruments	LM2901N
8	1	U8	I.C.,Hex Inverter Buffer/7406/OC/40mA	Texas Instruments	SN7406N
9	1	J1	Connector,25 Pin Female Right Angle DSUB .318 PCB Mount	RDI Electronics	DR-B25SB-NJ-100
10	1	J2	Connector,9 Pin Female Right Angle DSUB .318 PCB Mount	RDI Electronics	DR-E9S-NJ-100
11	1	J3	Connector,2.5mm DC Pwr	CUI Stack	PJ-202B
12	1	J4	Connector, SMB,Jack,Vertical PCB mtg	Johnson Components	131-3701-271
13	1	HS1	Heat Sink, .5 inch	Aavid	577202B00000
14	1	HD5	Hardware,LED Standoff, 0.32 inch	VISUAL COMM. CO., INC.	STD 320 BLK
15	1	Y1	Crystal/16Mhz/20 pF/Parallel/LoProfile	ECS	73-XT49S1600-20
16	1	HY1	Crystal Insulator, Mylar	Bivar	CI-192-028
17	5	Q1 Q2 Q4 Q5 Q6	Transistor,NPN BJT,2N3904	Fairchild	2N3904
18	2	Q3 Q7	transistor,PNP BJT,2N3906	Fairchild	2N3906
19	2	D1 D2	Diode 400 PIV	Diodes, Inc.	1N4004CT
20	1	D3	Transient Volt Suppressor/ 20V / 5W-SS / 600W-PK	Motorola	P6KE20A
21	1	D5	LED,red/green,T1 3/4	QT Optoelectronics	MV5437
22	1	D6	Diode,Zener 9.1V / .5W	Diodes, Inc.	1N5239BCT

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PCB Assembly, Scan tool, Wireless I'face, Vehicle, OBDII
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Rev B

Printed 8/18/2000

Item	Qty	Ref(t)	Title	Mfr	Mfr-P/N
23	2	D7 D8	Diode ,Fast Switch 100V / .5W/ 4 pF/ 4 nS trr	Diodes, Inc.	1N4148CT
24	9	D9 D10 D11 D12 D13 D14 D15 D16 D17	diode,27 V Zener 500 mW	Diodes, Inc.	1N5254B
25	4	TVS1 TVS2 TVS3 TVS4	Transient Volt Suppressor,5mm,18V,125A,ZNR typeD	Panasonic	ERZ-V05D180
26	1	RP1	Resisitor Network,4.7K Bussed / 9 Resistor / 2% / .125W	Xicon	4610-101 Series
27	1	RP2	Resisitor Network,10K ohm/7 Bussed/2%/.125W	Xicon	265-10K
28	1	RP3	Resisitor Network,10K Isol / 5 Resistor / 2% / .125W	Xicon	4610-102 Series
29	1	RP4	Resisitor Network,510 Isol / 3 Resistor / 2% / .4W	CTS	750-63-R510
30	1	RP5	Resisitor Network,1.5K Isol / 3 Resistor / 2% / .125W	Xicon	4606-102 Series
31	1	RP6	Resisitor Network,4.7K Isol / 3 Resistor / 2% / .125W	Xicon	4606-102 Series
32	1	RP7	Resisitor Network,220 Isol / 3 Resistor / 2% / .125W	Xicon	4606-102 Series
33	1	R1	Resistor,620 ohm,1/8w,5%	Yageo	620EBK
34	2	R2 R5	Resistor,1 kohm,Carbon Film,1/8w,5%	Xicon	
35	1	R3	Resistor,75K / 5% / .125W / CF	Yageo	75KEBK
36	2	R4 R9	Resistor,3K / 5% / .125W / CF	Yageo	3KEBK
37	2	R6 R7	Resistor,1.5K / 5% / .125W / CF	Yageo	1.5KEBK
38	1	R8	Resistor,150/ 5% / .25W / CF	Yageo	150QBK
39	1	C1	Capacitor,330uF / 25V / AIElec / 20%	Panasonic	ECE-A1EU221
40	1	C2	Capacitor,47uF / 16V / AIElec / 20%	Panasonic	ECE-A1CU470
41	2	C3 C4	Capacitor,27pF / Ceramic/100V / MLC / COG / 5%	Panasonic	ECU-S2A270JCA
42	4	C5 C6 C7 C8	Capacitor,0.1uF / 35V / Tant / 10%	Thomson	0.1K35V
43	10	C9 C10 C11 C12 C13 C16 C17 C18 C19 C20	Capacitor,0.1uF / 50V / MLC / Z5U / 20%	Xicon	21RZ310
44	2	C14 C15	Capacitor,10uF / 35V / AIElec / 20%	Panasonic	ECE-A1VU100
45	1		socket,28 Pin Dip,Narrow		
46	1		Socket,24 Pin DIP	Amp	2-641932-3

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Rev B

Printed 8/18/2000

Item	Qty	Ref(t)	Title	Mfr	Mfr-P/N
47	1		SCREW,#6-32 X 3/8 PAN HEAD	Building Fasteners	PMS 632 0038 PH
48	1		washer,#6 split lock		
49	1		NUT,6-32 hex	Building Fasteners	HNZ632