

REALTEK RTL8139C(L)/RTL8139C+ Demo Board(PCI LAN Card) B.O.M. List

Component	Reference	Quantity
RTL8139C(L)/C(L)+	U3	1
29C010	U2(Socket 32 pin)	1
9346	U1	1
25.000MHz Oscillator or 25.000MHz Crystal	X1(Frequency stability: $\pm 0.0025\%$, @25°C) or Y1*	1
RJ8-45	U7	1
LM1117 or AIC1117-33CY(AIC)* or AME1117CCGT(AMI)	U8	1
CONNECTOR	JP2	1
Pulse PE68515(H1012, HSIP-002) or Valor PT4171S(ST6118) or LANKom LF-H50E or Bel Fuse S558-5999-46(0810-1XX1-03) or Delta RJS-1A08T089A or Fun-Jin FT16-04S or InNET T0019S-1	U6	1
LED	LED1, LED2, LED3	3
CMPWR300(California Micro Devices)	U4	1
Diode Schottky(1N5817)	D1, D2, D4	3
0(5%, 1/16W)	R23	7
33(5%, 1/16W)	R10	1
50(5%, 1/16W)	R11, R12, R17, R18	4
75(5%, 1/16W)	R13, R14, R15, R16	4
510(5%, 1/16W)	R1, R2, R3	4
1K(5%, 1/16W)	R9	1
1.7K(5%, 1/16W)	R6	1
5.6K(5%, 1/16W)	R31, R32	2
10K(5%, 1/16W)	R7	2
15K(5%, 1/16W)	R5	1
0.1uF(10%, 50V)	C1, C2, C3, C6, C9, C10, C11, C16 BC1, BC2, DC1, DC2, DC3, DC4, DC5, DC6, DC7, DC8, DC9, DC10	20
0.01uF (10%, 3KV)	C12	1
0.047uF(10%, 50V)	CC1, CC2, CC3, CC4, CC5	5
22uF(10%, 50V)	C15, C18, C19	3

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100uF(10%, 50V)	C17	1
27pF(10%, 50V)	C22, C23	2
BEAD(100omh@100MHz , <i>Mag.Layers</i>)	B1, B2, B3, L2, L3, L4, L5	7

* You also can use AIC1722-33Cx instead of AIC1117-33CY, but the pin-outs are different. You have to check it carefully.

Reference Component Suppliers

AIC(Analog Integrations Corp.)

AMI(Analog Microelectronics, Inc.)

Bel Fuse

Fun-Jin

InNET

Mag.Layers

LANKom

Pulse

Realtek

Valor

TEL: 886-2-87976777 Ext.25(Mr. Jeff Hsu(徐偉光) E-mail: jeff_hsu@analog.com.tw)

TEL: 886-2-27511655 Ext.201(Mr. Andy(許建富))

<http://www.belfuse.com/>

TEL: 886-7-6936938, Fax: 886-7-6932596

TEL: 886-2-26949575, Fax: 886-2-26949590(Mr. Kevein Lu)

<http://www.maglayers.com.tw/>

TEL: 886-2-26953805, Fax: 886-2-26951407

<http://www.pulseeng.com/>

<http://www.realtek.com.tw/>

<http://www.valorinc.com/>

* Crystal Spec.

No.	Description	Contents
1.	Nominal Frequency	25.000 MHz
2.	Oscillation Mode	Base wave
3.	Frequency Tolerance at 25°C(±°C)	±50 ppm
4.	Temperature Characteristics	±50 ppm
5.	Operating Temperature Range	-10 °C ~ +70 °C
6.	Equivalent Series Resistance	30 Ohm Max.
7.	Drive Level	0.1 mv
8.	Load Capacitance	20 pf
9.	Shunt Capacitance	7 pf Max.
10.	Insulation Resistance	Mega Ohm Min./DC 100V
11.	Test Impedance Meter	Saunders 250A
12.	Aging Rate A Year	±0.0003 %

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Note: This BOM is for RED139C Rev. 1.09 schematic file.