
TECHNICAL BULLETIN

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To: WIZnet Worldwide sales

From: Mr.Yong S. Kim

Phone: +82(0)2 547 9709 (ext 129) email:kimys@wiznet.co.kr

RealTek' RTL8201L Phase-Out, changes in other Wiznet components and product revision

- The RTL8201L Phase-out & the RTL8201BL substitution
- The IIM7010A release
- Design Guide for the IIM7000/IIM7010/IIM7100 users
- Guaranteed order for the RTL8201L/IIM7000/IIM7010/IIM7100

1. The RTL8201L Phase-out and the RTL8201BL substitution

Taiwan Manufacturer of the Ethernet PHY Chip Realtek had officially noticed about the phase-out of the RTL8201L starting from coming May 2003. According to that, WIZnet will replace the RTL8201L with the RTL8201BL in all its products.

There is a "RTL8201L Phase Out Notice" from RealTek below:

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Due to the same functions and better performance product, RTL8201BL is mass production smoothly. For the factors that economic efficiency and market demands are decreasing for production scale, we plan to phase out the product, RTL8201L by **the end of May 2003.**

After that, we will produce by orders with minimum quantity and non-cancelable agreement.

We sincerely thank you for you long term support to Realtek products.

Issued by Cheng-Ho Tseng

Communication Network Product Division

Realtek semiconductor Corp.

2. The IIM7010A release

1. Additional specifications and changes in the IIM7010A

- PHY changes: will use the RTL8201BL from RealTek
- MAG-JACK changes: RJ45 Connector with integrated with X'FMR and LEDs
(P/N : LU1516-43, www.bothhand.com)
- Changes in Pin' specifications due to added functions (refer to the Pin Description below)
- Supports 4 more interface methods between MCU and the W3100A such as: Clocked Mode, Non-Clocked Mode, External Clocked Mode and I²C Interface (reference: The IIM7010 provides only Clocked Mode)

2.Pin Description

8 pins are added to increase functions and Not-Connected Pin is used in the IIM7010.

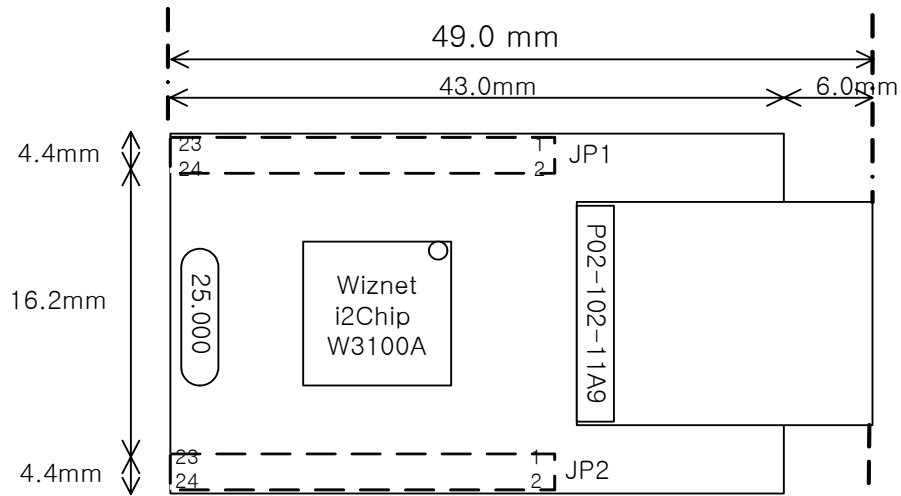
PN PIN #	IIM7010		IIM701A	
	JP1	JP2	JP1	JP2
1	VCC(3.3V)	GND	VCC(3.3V)	GND
2	/INT	/RESET	/INT	/RESET
3	/WR	NC	/WR	NC
4	/RD	GND	/RD	GND
5	/CS	NC	/CS	NC
6	RESET	NC	RESET	L_COL
7	A14	GND	A14	GND
8	GND	NC	GND	L_100ACT
9	A12	NC	A12	NC
10	A13	NC	A13	L_10ACT
11	A10	NC	A10	L_DUPX
12	A11	NC	A11	L_LINK
13	GND	GND	GND	GND
14	A9	GND	A9	GND
15	A8	D1	A8	D1
16	A7	D0	A7	D0
17	A6	D3	A6	D3
18	A5	D2	A5	D2

19	A4	D5	A4	D5
20	A3	D4	A3	D4
21	A2	D7	A2	D7
22	A1	D6	A1	D6
23	A0	GND	A0	GND
24	GND	VCC(3.3V)	GND	VCC(3.3V)
25	-	-	MODE0	I_SCL
26	-	-	MODE1	I_SDA
27	-	-	MODE2	NC
28	-	-	EXT_CLK	NC

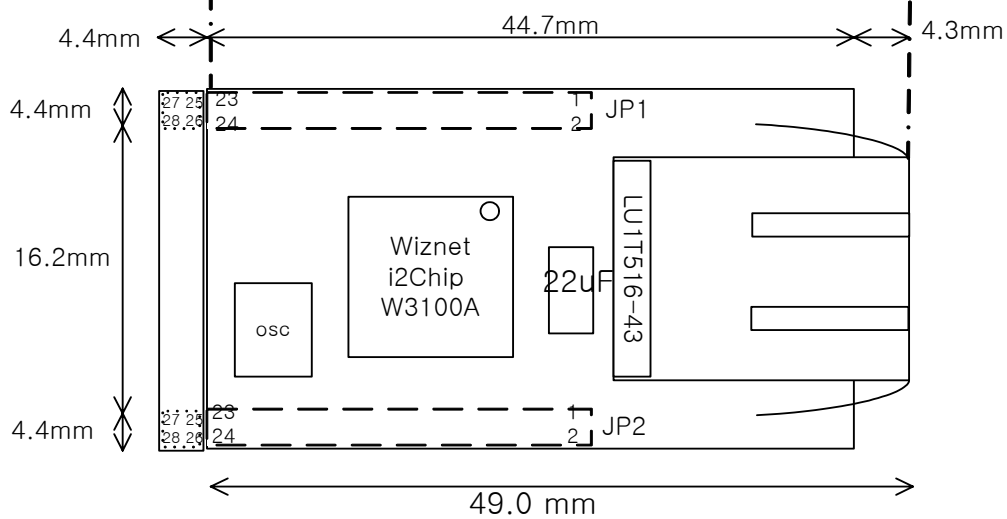
3. Dimension

For the reason of addition 4 pins on JP1 and JP2 the total length, comparing to the IIM7010 is increased in 4.4mm, for this is the length of the added Pins. Excepting only that fact total length is the same to the IIM7010. Namely, the length of the IM7010A from JP1:23 Pin to MAG-Jack is the same to the IIM7010 from JP1:23 Pin to the MAG-Jack. However the jut out part of the MAG-JACK decreased from 6.0mm to 4.3mm. You can see the difference in dimensions on the schematic below.

IIM7010 Dimension



IIM7010A Dimension



“The length from 23 pin to the end of the LU1T516”
is the same to the IIM7010

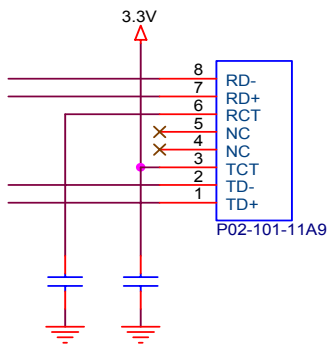
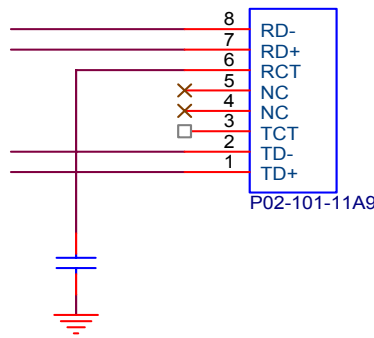
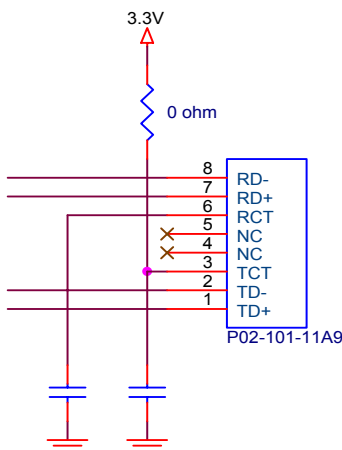
- Refer to the datasheet for exact values -

3. Design Guide for the IIM7000 / IIM7010 /IIM7100 Users

1. For the IIM7000/IIM7100 users

Because of the modification of the PHY chip the interface with MAG-JACK is changed.

[How to interface with transformer]

1. Transformer schematic for the RTL8201L	2. Transformer schematic for the RTL8201BL
	<p>In case of using the RTL8201BL, TCT must be opened as follows:</p> 
3. RTL8201L, RTL8201BL combined Transformer schematic	
<p>In case of RTL8201BL & Transformer Remove R (Resistor) and C (Capacitor) connected to TCT</p> <p>In case of RTL8201L & Transformer Add R (0 Ohm Resistor) or C (Capacitor) to use</p> 	

2. For the IIM7010 users

The IIM7010 and the IIM7010A are 100% compatible. In the IIM7010A 8 Pins are added which brings to the enlargement in 4.4mm. If there are no problems in the system and if the jut out part in the MAG-JACK is 4.3mm (in the IIM7010 it is 6.0mm) and brings no problems to the housing, the IIM7010A could be applied in the IIM7010 used system without any changes.

4. Plan for RTL8201L /IIM7000/ IIM7010 /IIM7100 supply

For customers who cannot or do not want to change to the IIM7010A WIZnet will continue to provide the RTL8201L along with the existing IIM7010.

However, Realtek supplies with the RTL8201L only guarantee purchasers as well the WIZnet will provide the RTL8201L and the IIM7010 through the non-cancelable agreement order. (Ordering Date: ~ March) The same purchase policy will work for the IIM7000 and the IIM7100.