

## Notice

This guide is designed for experienced users to setup the system in the shortest time.

## Safety Precautions

### **Warning!**



*Always completely disconnect the power cord from your board whenever you are working on it. Do not make connections while the power is on, because a sudden rush of power can damage sensitive electronic components.*

### **Caution!**



*Always ground yourself to remove any static charge before touching the board. Modern electronic devices are very sensitive to static electric charges. Use a grounding wrist strap at all times. Place all electronic components on a static-dissipative surface or in a static-shielded bag when they are not in the chassis*



## A Message to the Customer

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First of all, thank you for purchasing PER-C10L Mini PCI Ethernet module. This Quick Installation Guide will help you on the process of the installation. Please read it thoroughly before you start to install it. The product comes with a sheet of warranty for two years assurances except for improper use. Therefore, we strongly suggest you to read and refer to the Quick Installation Guide before any installation. You may visit AAЕON website for the latest version of the instruction. Please refer to [Http://www.aaeon.com](http://www.aaeon.com)

## Product Warranty

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### **AAEON Customer Services**

All products in AAEON are designed as the strictest specifications to ensure that the products will own the reliable performance in the typical industrial environments. Whether your purchase from AAEON is made to the purpose of the laboratory or the factory facility, you can be assured that every purchase in AAEON will provide the reliability and stability of operation. Your satisfaction is our primary concern. Here is a guide for AAEON's customer services. Ensure you get the full benefits of our services, please follow the instructions below step by step.

### **Technical Support**

We require you to get the maximum performance from your products. If you run into technical difficulties, we' ll be here always for you. For the most frequently asked questions, you can easily find solutions in your product documentation. The guide is specified detailedly so please refer to it first. Therefore, we suggest strongly that you can read it before asking for a customer service over the phone. If you still cannot find the answer, gather all questions you can think of and have the product at hand before giving a call to your dealer. All dealers of AAEON are well-trained and ready to provide you as many supports as we can. Based on the customer service we' ve encountered until

now, most of problems are minor and able to be easily solved over the phone. In addition, free-charged technical support is available from AAЕON engineers in the office time. We are always pleased to give advice regarding to any installation and operation for AAЕON products.

## Ordering Information

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- PER-C10L-A10

Mini PCI 10/100Base-T Ethernet Module W / Realtek 8100C

- PER-C10L-A10-01

Mini PCI 10/100/1000Base-T Ethernet Module W / Realtek 8110S

- PER-C10L-A10-02

Mini PCI 10/100Base-T Ethernet Module W / Intel®82551QM

- PER-C10L-A10-03

Mini PCI 10/100/1000Base-T Ethernet Module W / Intel® 82541GI

## **Packing List**

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- 1 PER-C10L Mini PCI Ethernet Module
- 1 LAN Cable
- 1 Quick Installation Guide
- 1 CD-ROM for QIG (in PDF format) and drivers

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## **1.1 Feature**

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- Mini PCI Type III Interface
- Single 10/100Base-T or 10/100/1000Base-T Ethernet Port
- Support Wake-On-LAN Function



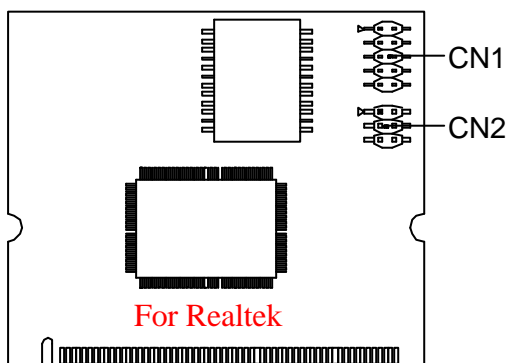
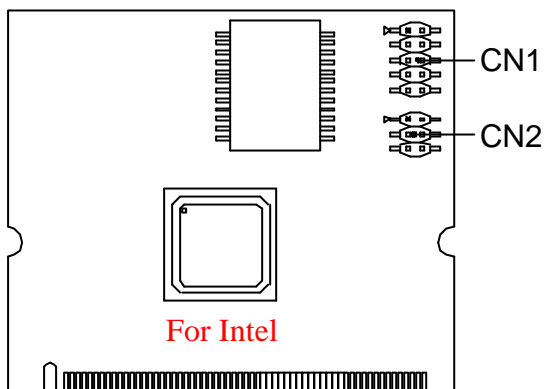
## 1.2 Specification

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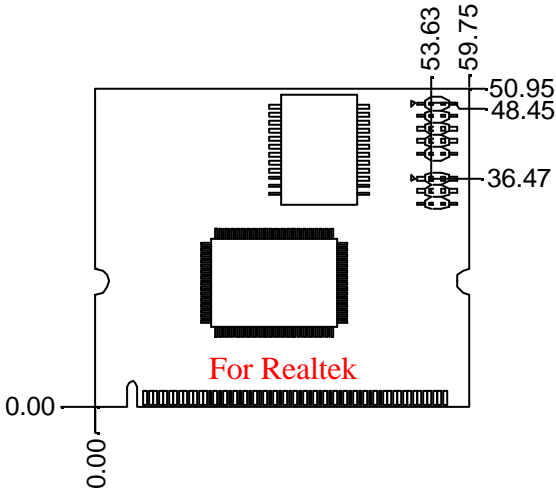
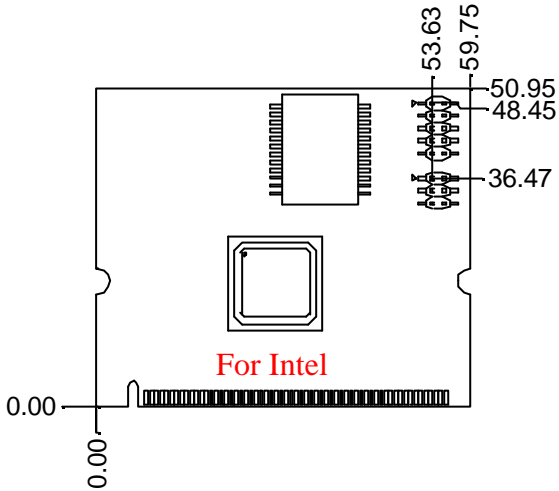
- Chipset Intel®82551QM / Realtek 8100C For 10/100Base-T  
Intel®82541GI / Realtek 8110S For 10/100/1000Base-T
- Speed Support 10Mbps / 100Mbps / 1000Mbps, Auto negotiation
- Function IEEE 802.3x compliant flow control support  
IEEE 802.1Q Virtual LAN  
Support Wake-On-LAN support
- Power Management Support ACPI, PCI power Management
- Operating Temperature 32 ~140 ( 0 ~ 60 )

### 1.3 Location of Jumper and Connector

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### 1.4 Mechanical Drawing



### 1.5 10/100Base-Tx Ethernet Connector (CN1)

Pin	Signal	Pin	Signal
1	OMDI0+	2	OMDI0-
3	OMDI1+	4	OMDI1-
5	GND	6	GND
7	N.C	8	N.C
9	N.C	10	N.C

### 1.6 10/100/1000Base-Tx Ethernet Connector (CN1)

Pin	Signal	Pin	Signal
1	OMDI0+	2	OMDI0+
3	OMDI1+	4	OMDI1-
5	GND	6	GND
7	OMDI2+	8	OMDI2-
9	OMDI3+	10	OMDI3-

### 1.7 LED pin (CN2)

Pin	Signal	Pin	Signal
1	Link / Active LED (+)	2	Link / Active LED (-)
3	Speed 100Base-Tx LED (+)	4	Speed 100Base-Tx LED (-)
5	Speed 1000Base-Tx LED (+)	6	Speed 1000Base-Tx LED (-)