# Notice

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

# **Safety Precautions**



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



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## A Message to the Customer

Fist of all, thank you for purchasing PER-C11L Mini PCI-E 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 AAEON website for the latest version of the instruction. Please refer to <u>Http://www.aaeon.com</u>

## **Product Warranty**

#### **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

#### Mini PCI-E Ethernet Module

easily solved over the phone. In addition, free-charged technical support is available from AAEON engineers in the office time. We are always pleased to give advice regarding to any installation and operation for AAEON products.

## **Ordering Information**

TF-PER-C11L-A10
Mini PCI-E 10/100/1000Base-TX Ethernet Module w/ Intel<sup>®</sup>
82574L

## **Packing List**

•	1	TF-PER-C11L Mini PCI-E Ethernet Module
•	1	LAN Cable
•	1	USB Cable
•	1	Quick Installation Guide
•	1	CD-ROM for QIG (in PDF format) and drivers

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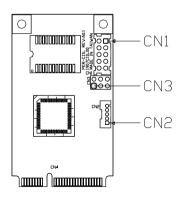
## 1.1 Feature

- Intel<sup>®</sup> 82574L Gigabit Ethernet LAN Chip
- USB Port x 1

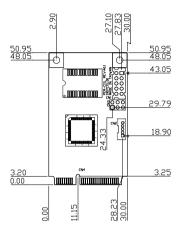
## **1.2 Specification**

•	Form Factor	PCI-Express Mini Card (30mm x 56mm)
•	Ethernet Chip	Intel <sup>®</sup> 82574L Gigabit Ethernet Chip
•	Speed	Supports 10/100/1000Base-TX, Auto-negotiation
•	Function	IEEE 802.3x compliant flow control support, IEEE 802.1Q Virtual LAN, supports Wake-On-LAN function
•	Power Management	Supports ACPI, PCI power management
•	Operating Temperature	32°F ~ 140 °F (0°C ~ 60 °C)

## **1.3 Location of Connectors**



### **1.4 Mechanical Drawing**



### **1.5 List of Connectors**

The board has a number of jumpers that allow you to configure your system to suit your application.

The table below shows the function of each of the board's connectors:

AN Connector
SB Connector
0/100/1000Base-TX Ethernet LED Connector External)
CT_LED / Yellow
PD1000_LED / Blue
PD100_LED / Green

### 1.6 LAN Connector (CN1)

Pin	Signal
1	TX_D1+
2	TX_D1-
3	RX_D2+
4	RX_D2-
5	GND
6	GND
7	BI_D3+
8	BI_D3-
9	BI_D4+
10	BI_D4-

## 1.7 USB Connector (CN2)

Pin	Signal	Pin	Signal
1	VCC_USB	2	USB_DX-
3	USB_DX+	4	GND
5	GND		

## 1.8 10/100/1000Base-TX Ethernet LED Connector (CN3)

Pin	Signal	Pin Signal	
1	ACT_LED(+)	2	ACT_LED(-)
3	SPD100_LED(+)	4	SPD100_LED(-)
5	SPD1G_LED(+)	6	SPD1G_LED(-)

## Mini PCI-E Ethernet Module

### PER-C11L

## **Product photos**

Component side



Solder side



Cables



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#### Below Table for China RoHS Requirements 产品中有毒有害物质或元素名称及含量

#### AAEON Main Board/ Daughter Board/ Backplane

	有毒有害物质或元素						
部件名称	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚	
	(Pb)	(Hg)	(Cd)	(Cr(VI))	(PBB)	(PBDE)	
印刷电路板	x	0	0	0	0	0	
及其电子组件		0	0	0	0	0	
外部信号	x	0	0	0	0	0	
连接器及线材	^	0	0	0	0	0	
O: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。							
X:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。							

备注:此产品所标示之环保使用期限,系指在一般正常使用状况下。