

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

Fist of all, thank you for purchasing PER-C30F Mini PCI 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 two year limited warranty except for improper use. Therefore, we strongly suggest that you read and refer to the Quick Installation Guide before any installation. You may visit AAEON website for the latest version of the instruction guide. Please refer to [Http://www.aaeon.com](http://www.aaeon.com)

Product Warranty

AAEON Customer Services

All products in AAEON are designed according to the strictest specifications to ensure that these products will retain reliable performance in typical industrial environments. Whether your purchase from AAEON is made for use in the laboratory or the factory facility, you can be assured that every purchase in AAEON will provide reliability and stability of operation.

Your satisfaction is our primary concern. Here is a guide for AAEON's customer services. To ensure you get full benefits of our services, please follow the instructions below step by step.

Technical Support

We want you to get the maximum performance from your products. If you run into technical difficulties, we will always be here for you. For the most frequently asked questions, you can easily find solutions in your product documentation. The guide is specific in detail so please refer to it first. Therefore, we suggest strongly that you can read it before asking for 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 much

supports as they can. Based on the customer service problems we have encountered, most of them are minor and able to be easily solved over the phone. In addition, free technical support is available from AAEON engineers during office hours. We are always pleased to give advice regarding any installation and operation for AAEON products.

Ordering Information

- PER-C30F-A10

Mini PCI 3-Port IEEE1394a Module

Packing List

- PER-C30F
- PER-T010 daughter board
- Quick Installation Guide

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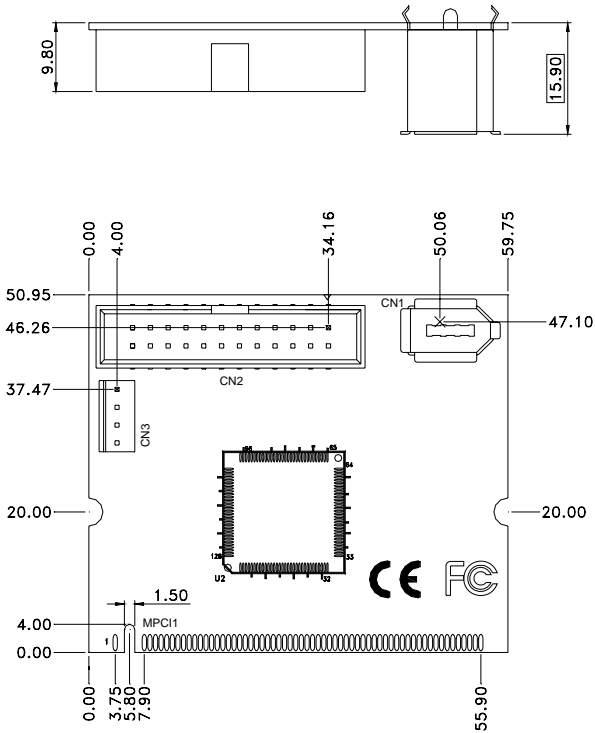
1.1 Features

- Supports three IEEE1394a ports up to 400Mbps
- TI single chip for IEEE1394a solution

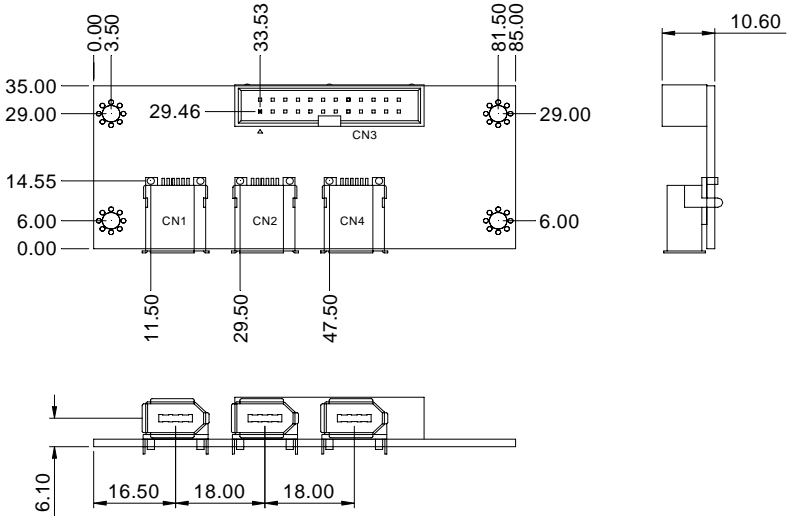
1.2 Specifications

- | | |
|---------------------|---|
| • Form factor | Mini PCI Type IIIA
(50.8mm x 59.6mm) |
| • IEEE1394a Chipset | TI TSB43AB23 |
| • Power Request | +3.3V, +5V, +12V |
| • Operation Temp. | 0°C ~ 60°C |

1.3 Mechanical Drawing and Connector Locations



For model of PER-C30F



For model of PER-T010

1.4 PER-C30F Connector List

The board has a number of connectors that allow you to configure your system to suit your application. The table below shows the function of each board's connectors:

Connectors

Label	Function
CN1	IEEE1394 Optional Connector
CN2	IEEE1394 Box header
CN3	Small 4P Power Connector

IEEE1394 Optional Connectors (CN1)

Pin	Signal	Pin	Signal
1	+12V	2	GND
3	TPB-	4	TPB+
5	TPA-	6	TPA+
7	CHASSIS_GND	8	CHASSIS_GND
9	CHASSIS_GND		

Note: CN1 on PER-C30F and PER-T010 daughter board share one IEEE1394a port, please don't use them simultaneously.

IEEE1394 3 ports Box Headers (CN2)

Pin	Signal	Pin	Signal
1	TPB1+	2	TPB1-
3	+12V	4	+12V
5	TPA1+	6	TPA1-
7	GND	8	GND
9	TPB2+	10	TPB2-
11	+12V	12	+12V
13	TPA2+	14	TPA2-
15	GND	16	GND
17	TPB3+	18	TPB3-
19	+12V	20	+12V
21	TPA3+	22	TPA3-
23	GND	24	GND

Small 4P Power Connectors (CN3)

Pin	Signal	Pin	Signal
1	+12	2	GND
3	GND	4	N.C

1.5 PER-T010 Daughter Board Connector List

Connectors

Label	Function
CN1	IEEE1394 Connector
CN2	IEEE1394 Connector
CN3	IEEE1394 Box 3 ports header
CN4	IEEE1394 Connector
CN5	Small 4P Power Connector

IEEE1394 Connectors (CN1, CN2, CN4)

Pin	Signal	Pin	Signal
1	+12V	2	GND
3	TPB-	4	TPB+
5	TPA-	6	TPA+
7	CHASSIS_GND	8	CHASSIS_GND
9	HOLE1	10	HOLE2

Small 4P Connector (CN3)

Pin	Signal	Pin	Signal
1	+12	2	GND
3	GND	4	N.C

IEEE1394 BOX 3 ports HEADER (CN3)

Pin	Signal	Pin	Signal
1	TPB1+	2	TPB1-
3	+12V	4	+12V
5	TPA1+	6	TPA1-
7	GND	8	GND
9	TPB2+	10	TPB2-
11	+12V	12	+12V
13	TPA2+	14	TPA2-
15	GND	16	GND
17	TPB3+	18	TPB3-
19	+12V	20	+12V
21	TPA3+	22	TPA3-
23	GND	24	GND