



integration with integrity

User's Manual

Mini PCI Module 1807640

Version 1.0, October 2008

---

---

## **Copyrights**

This manual is copyrighted and all rights are reserved. It does not allow any non authorization in copied, photocopied, translated or reproduced to any electronic or machine readable form in whole or in part without prior written consent from the manufacturer.

In general, the manufacturer will not be liable for any direct, indirect, special, incidental or consequential damages arising from the use of inability to use the product or documentation, even if advised of the possibility of such damages. The manufacturer keeps the rights in the subject to change the contents of this manual without prior notices in order to improve the function design, performance, quality and reliability. The author assumes no responsibility for any errors or omissions, which may appear in this manual, nor does it make a commitment to update the information contained herein.

## **Trademarks**

Intel is a registered trademark of Intel Corporation.

Award is a registered trademark of Award Software, Inc.

All other trademarks, products and or product's name mentioned herein are mentioned for identification purposes only, and may be trademarks and/or registered trademarks of their respective companies or owners.

---

---

## Mini PCI Module

### Ordering Information

---

- 1807640

Mini PCI 3-Port IEEE1394a Module

### Packing List

---

- 1807640
  - Daughter board
  - Quick Installation Guide
-

---

## Mini PCI Module

### 1.1 Features

---

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

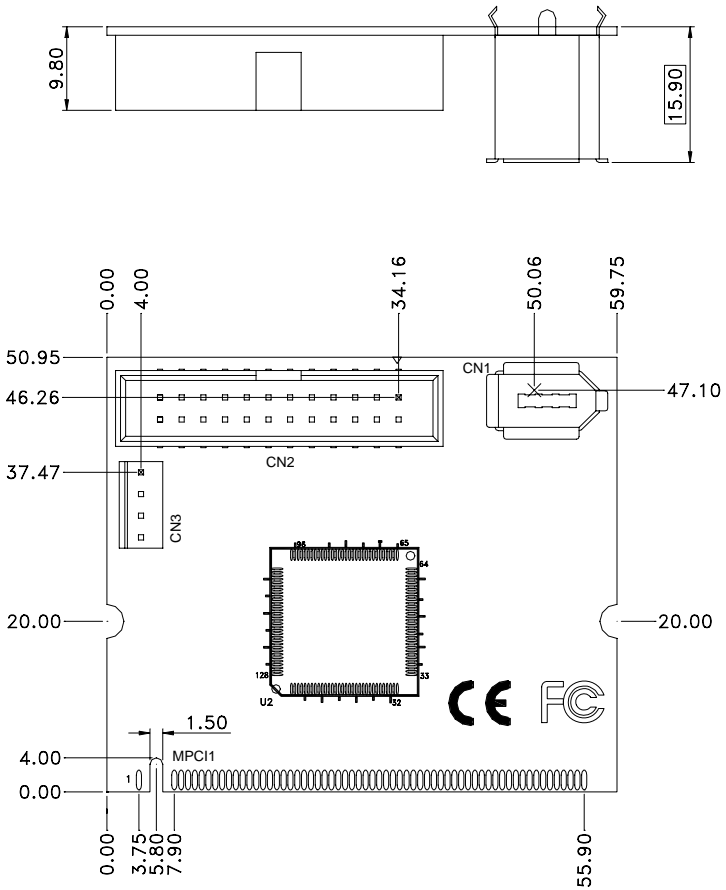
### 1.2 Specifications

---

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

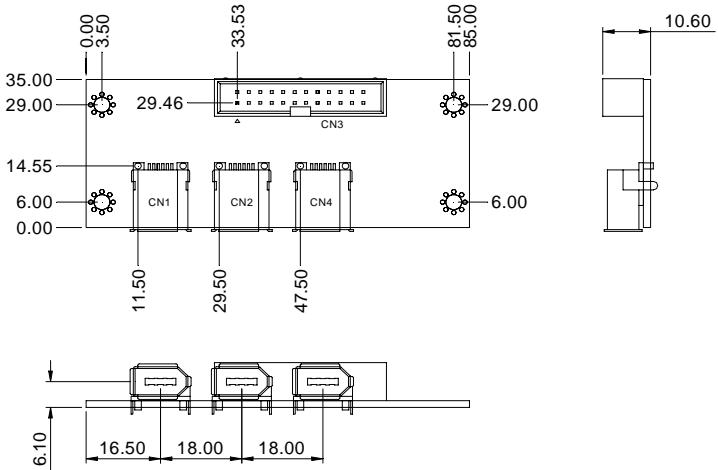
# Mini PCI Module

## 1.3 Mechanical Drawing and Connector Locations



# Mini PCI Module

# PER-C30F



## Mini PCI Module

### 1.4 1807640 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:** When using CN1 on 1807640 to connect any IEEE1394 device, please don't connect the daughter board to 1807640. CN1 on 1807640 and daughter board cannot be used simultaneously.

## Mini PCI Module

### 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) – this connector is just for device power supply. It's no need to connect it when your device has its own power supply**

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

## Mini PCI Module

### 1.5 1807640 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 (Optional)

#### 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 (CN5)- this connector is not soldered on standard model

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

## Mini PCI Module

### 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

---

Any advice or comments about our products and service, or anything we can help you with please don't hesitate to contact us. We will do our best to support your products, projects and business.



Address: Global American, Inc.  
17 Hampshire Drive  
Hudson, NH 03051

Telephone: Toll Free (U.S. Only) 800-833-8999  
(603)886-3900

FAX: (603)886-4545

Website: <http://www.globalamericaninc.com>  
Support: Technical Support at Global American

