



integration with integrity

1507760 User's Manual
Mini PCI Dual Fast LAN Module
Version 1.0



Copyrights

This document 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 document 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 document, 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.



Introduction

The 1507760 is a Mini-PCI interface which can supplement a CPU board without a LAN port or lacking a LAN function. This Mini PCI Type III Interface module adds Dual 10Mbps and 100Mbps NWay auto-negotiation LAN capability.

Packing list

Before you begin installing your card, please make sure that the following materials have been shipped:

- 1 1507760 Mini PCI Interface to Dual LAN Communication Module
- 1 Startup manual
- 1 CD ROM for 1507760 Driver
- 2 LAN Cable IDC10P 2.0mm/ RJ45+LED 21CM 1807630

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

Note 1: Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: www.adobe.com/products/acrobat/readstep2.html(Acrobat is a trademark of Adobe.)

Specifications

- Chipset: Realtek 8100C
- Dual 10/100 LAN
- Fully compliant with IEEE 802.3u 100Base-T and IEEE 802.3x Full duplex flow control
- Supports Wake-On-LAN and remote wake-up
- Compatible with Mini PCI rev1.0, Mini PCI Type III
- Supports the Advanced Configuration and Power Interface (ACPI)
- Supports remote wake-up in both ACPI and APM Environments
- Supports Analog Auto-Power-down.
- Supports an auxiliary power auto-detect function
- Complies with PCI Revision 2.3
- Supports PCI clock 16.75MHz-40MHz
- Supports PCI target fast back-to-back transaction
- Supports 4 Wake-On-LAN (WOL) signals (active high, active low, positive pulse, and negative pulse)
- OS support: Win98, WinME, Win2000, WinXP

Mechanical and Environmental

- **Power Supply Voltage:** +V3.3 or +V3.3SB (if supply wake up by LAN from S5) 220mA
- **Size:** 59.75 mm x 63 mm
- **Operating Temperature:** 0°C ~ 60°C (32°F ~ 140°F) -40°C to 85°C (-40°F ~185°F) in Storage
- **Operating Humidity:** 0% to 90% relative humidity, non-condensing
- **Compliance Certifications:** CE, FCC

Jumpers & Connectors

The table below lists the function of each of the jumpers and connectors

CN1: LAN1 Connector

Pin	Pin Name	Signal Type	Signal Level
1	+V3.3_LAN1	PWR	+V3.3
2	LAN1_ACTLED	OUT	+V3.3
3	LAN1_RX+	IN	
4	LAN1_RX-	IN	
5	LAN1_LILED	OUT	+V3.3
6	GND		
7	+V3.3_LED	OUT	+V3.3
8	GND		
9	LAN1_TX+	OUT	
10	LAN1_TX-	OUT	

CN2: LAN2 Connector

Pin	Pin Name	Signal Type	Signal Level
1	+V3.3_LAN1	PWR	+V3.3
2	LAN1_ACTLED	OUT	+V3.3
3	LAN1_RX+	IN	
4	LAN1_RX-	IN	
5	LAN1_LILED	OUT	+V3.3
6	GND		
7	+V3.3_LED	OUT	+V3.3
8	GND		
9	LAN1_TX+	OUT	
10	LAN1_TX-	OUT	

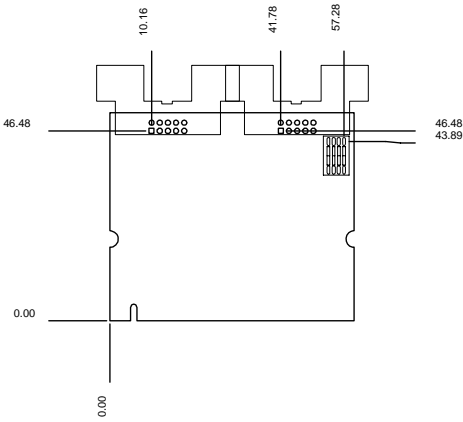
SW1: LAN2 IDSEL SELECT1

Pin	Pin Name
SW1(1,2,3,4)	IDSEL
ON,OFF,OFF,OFF	PCI_AD28
OFF,ON,OFF,OFF	PCI_AD29
OFF,OFF,ON,OFF	PCI_AD30
OFF,OFF,ON,ON	PCI_AD31

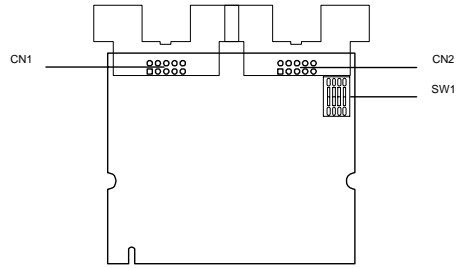
SW2: LAN2 IDSEL SELECT2

Pin	Pin Name
SW1(1,2,3,4)	IDSEL
ON,OFF,OFF,OFF	PCI_AD20
OFF,ON,OFF,OFF	PCI_AD21
OFF,OFF,ON,OFF	PCI_AD23
OFF,OFF,ON,ON	PCI_AD26

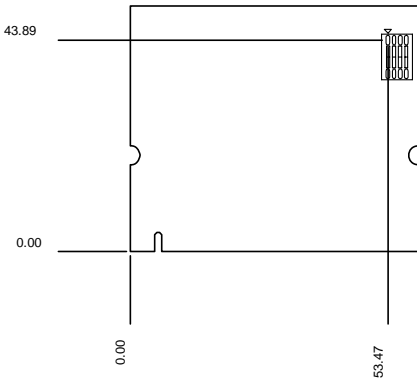
Board Layout



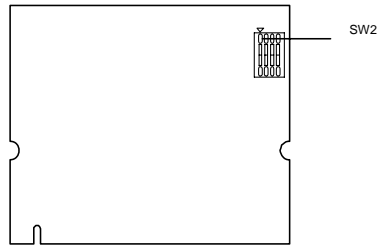
Board layout: dimensions (component side)



Board layout: Jumper & Connector (component side)



Board layout: dimensions (solder side)



Board layout: Jumper & Connector (solder side)

FCC

This device complies with the requirements in part 15 of the FCC rules: Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and*
- 2. This device must accept any interference received, including interference that may cause undesired operation*

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this device in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense. The user is advised that any equipment changes or modifications not expressly approved by the party responsible for compliance would void the compliance to FCC regulations and therefore, the user's authority to operate the equipment.

Caution!



There is a danger of a new battery exploding if it is incorrectly installed. Do not attempt to recharge, force open, or heat the battery. Replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Achtung!

Any advice or comments about our products and service, or anything we can help you with please don't hesitate to contact with 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
