



integration with integrity

1507770 User's Manual
Mini PCI Gigabit LAN Module
Version 1.0



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Introduction

The 1507770 is a Mini-PCI interface that can add support for a single Gigabit LAN to a CPU board without LAN or a lack of LAN function. This is a Mini PCI Type III interface that supports single Gigabit LAN.

Packing list

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

- 1 1507770 Mini PCI to Single Giga LAN Communication Module
- 1 Startup manual
- 1 CD ROM for 1507770 Driver
- 1 LAN GIGA Cable IDC10P 2.0mm & 2 LED 21CM

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 8110SC-GR
- Single GIGA LAN
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- Supports PCI rev.2.3, 32-bit, 33/66 MHz Wake-on-LAN and Remote Wake-on
- Compatible with Mini PCI rev1.0, Mini PCI Type III
- Supports full Duplex flow control(IEEE 802.3X)
- 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) 300mA
- **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	NC		
2	NC		
3	LAN1_MDI3+	I/O	
4	LAN1_MDI3-	I/O	
5	LAN1_MDI2+	I/O	
6	LAN1_MDI2-	I/O	
7	LAN1_MDI1+	I/O	
8	LAN1_MDI1-	I/O	
9	LAN1_MDI0+	I/O	
10	LAN1_MDI3+	I/O	

CN2: LAN1 ACTIVE LED

Pin	Pin Name	Signal Type	Signal Level
1	LAN1_ACTLED	OUT	+V3.3
2	+V3.3_ACTLED	PWR	+V3.3

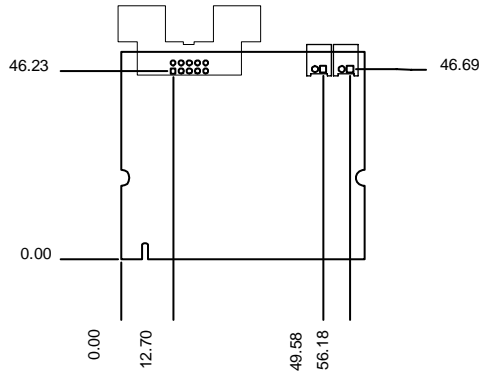
CN3: LAN1 GIGA LINK LED

Pin	Pin Name	Signal Type	Signal Level
1	LAN1_LINK	1000#	+V3.3
2	+V3.3_LINK	PWR	+V3.3

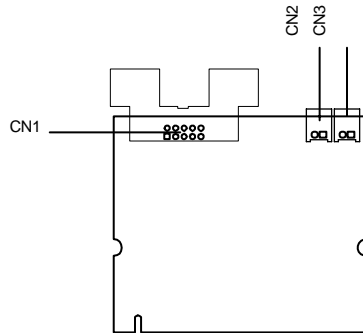
Notice: A LAN cable is used with 1507770. There are two LED lines, labeled 1 and 2. Please use label 1 lines to connect CN3 on 1507770 board, and use label 2 lines to connect CN2 on 1507770 board.

When LAN works in GIGA transmit connection, the Green LED of RJ45 on the LAN cable will light up. Otherwise, the Green LED won't light up.

Board Layout



Board layout: dimensions (component side)



*Board layout: Jumper & Connector
(component 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.



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