PMC-8611

PMC Fast Ethernet
Interface Module
User's Guide



Recycled Paper

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Detailed Company Information			
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Questions			
Product Model			
Environment	OS: Computer Brand: M/B: CPU: Chipset: BIOS: Video Card: NIC: Other:		
Detail Description			
Suggestions for ADLINK			

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Table of Contents

1 Introduction 1

1.1 Features and Specifications 2

2 Getting Started 3

2.1 What's Included 3
2.2 Unpacking 3
2.3 Functional Block Diagram 4
2.4 Pin Definitions & Jumper Settins 5

3 Installation 11

3.1 PMC Board Installation 11
3.2 Driver Installation 12

Warranty Policy 13

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How to Use This Manual

This manual is designed to assist users in understanding the PMC-8611.

Chapter 1 **Introduction**
Overview of product features and applications.

Chapter 2 **Getting Started**
Describes unpacking, connector pin assignments and jumper settings.

Chapter 3 **Installation**
Describes setup and installation.

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1

Introduction

PMC-8611 is a high performance single-port Ethernet PCI Mezzanine Card that complies with the IEEE Standard P1386 (CMC) specification. It integrates an Intel 82559 single chip Ethernet controller with IEEE 802.3 10BASE-T and 100BASE-TX support .

The PMC-8611 is fully compliant with PCI Local Bus Specification Rev. 2.2 and can be directly installed to any 32-bit/33 MHz CMC interface

The PMC-8611 is fully compatible with various operating systems and has driver support for Windows 9x/ ME/NT/2K/XP, Linux.

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1.1 Features and Specifications

PCI Bus

- 32bit /33MHz PCI Mezzanine card
- Fully complied with PCI Rev2.2

Features

- Support for latchless Flash interface with up to 128Kbyte of Flash addressing.
- Support for remote power-up using Wake on LAN (WOL) technology.
- Lower power consumption

Power requirements

- 3.3V @ 2mA (max.)

Ethernet I/F:

- Intel 82559 Ethernet Controller
- Complied with PCI V2.2, IEEE802.3, IEEE802.3u
- True 32-bit PCI bus master
- Full duplex support
- 10 Base-T/ 100 Base-TX support
- 100Mbps Fast Ethernet or 10Mbps data transfer, selected via auto-negotiation
- Support INTEL Preboot Execution Environment (PXE) for remote boot
- Two LED indicators :10 Mbps/100Mbps and Link / Active
- Drivers support: DOS, Windows 98 SE, Windows ME, Windows NT, Windows 2000, Windows XP, Linux Red Hat

Compliant Standards

- EMI Test : European Standard EN 55022 Class B
- Harmonic Test : European Standard EN 61 000-3-2
- Voltage fluctuations Test : European Standard EN 61 000-3-3
- EMS Test : European Standard EN 50 082-1:1997
- FCC Test According to : Standard for Methods of Measurement
- ANSI C63.4 – 1992
- Test in Compliance with CISPR PUB. 22 and FCC Part 15

Environment

- Operating Temperature: 0 to 60^{o}C
- Storage Temperature: -20 to 80^{o}C
- Humidity: 10%~90% non condensing

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2

Getting Started

This chapter describes how to prepare the PM-8611 for installation. Please carefully review the unpacking information before removing the product. The optional settings are also specified below.

2.1 What's Included

In addition to this *User's Manual*, the package includes the following items:

- PMC-8611 Ethernet PCI Mezzanine Card
- All in one support CD-ROM

If anything is missing or damaged, contact the dealer the product was purchased. Save the shipping materials and carton to ship or store the product in the future.

2.2 Unpacking

The PMC-8611 card contains sensitive electronic components that can be easily damaged by static electricity.

Prepare a grounded anti-static mat. The operator should be wearing an anti-static wristband, grounded at the same point as the anti-static mat.

Inspect the card module carton for obvious damage. Shipping and handling may cause damage to the module. Be sure there is no obvious damage due to shipping and handing by examining the shipping box.

After opening the card module carton, extract the system module and place it only on a grounded anti-static surface, component side up.

Note: DO NOT APPLY POWER TO THE CARD IF IT HAS BEEN DAMAGED.

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2.3 Functional Block Diagram

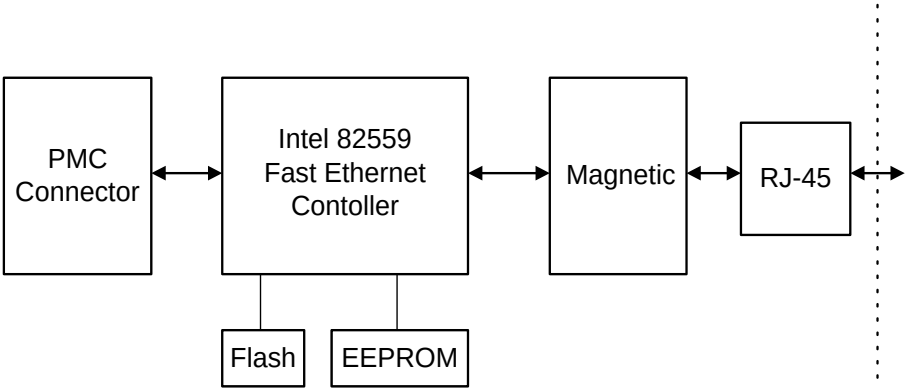


Figure 2.2 PMC-8611 Functional Layout

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2.4 Pin Definitions & Jumper Settings

Table 1. CN1 PIN DEFINITION

PN1 pin assignment			
Signal	**Pin**	**Pin**	**Signal**
RESERVED	1	2	RESERVED
GND	3	4	INTA#
RESERVED	5	6	RESERVED
RESERVED	7	8	5V
RESERVED	9	10	RESERVED
GND	11	12	RESERVED
PCICLK	13	14	GND
GND	15	16	GNT#
REQ#	17	18	5V
RESERVED	19	20	AD[31]
AD[28]	21	22	AD[27]
AD[25]	23	24	GND
GND	25	26	CBE[3]#
AD[22]	27	28	AD[21]
AD[19]	29	30	5V
RESERVED	31	32	AD[17]
FRAME#	33	34	GND
GND	35	36	IRDY#
DEVSEL#	37	38	5V
RESERVED	39	40	RESERVED
RESERVED	41	42	RESERVED
PAR	43	44	GND

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RESERVED	45	46	AD[15]
AD[12]	47	48	AD[11]
AD[9]	49	50	5V
GND	51	52	CBE[0]#
AD[6]	53	54	AD[5]
AD[4]	55	56	GND
RESERVED	57	58	AD[3]
AD[2]	59	60	AD[1]
AD[0]	61	62	5V
GND	63	64	REQ64#

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Table 2. CN2 PIN DEFINITION

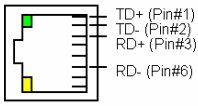
PN2 pin assignment			
Signal	**Pin**	**Pin**	**Signal**
RESERVED	1	2	RESERVED
RESERVED	3	4	RESERVED
RESERVED	5	6	GND
GND	7	8	RESERVED
RESERVED	9	10	RESERVED
RESERVED	11	12	3.3V
PCIRST#	13	14	RESERVED
3.3V	15	16	RESERVED
RESERVED	17	18	GND
AD[30]	19	20	AD[29]
GND	21	22	AD[26]
AD[24]	23	24	3.3V
IDSEL	25	26	AD[23]
3.3V	27	28	AD[20]
AD[18]	29	30	GND
AD[16]	31	32	CBE[2]#
GND	33	34	RESERVED
TRDY#	35	36	3.3V
GND	37	38	STOP#
PERR#	39	40	GND
3.3V	41	42	SERR#
CBE[1]#	43	44	GND
AD[14]	45	46	AD[13]

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RESERVED	47	48	AD[10]
AD[8]	49	50	3.3V
AD[7]	51	52	RESERVED
3.3V	53	54	RESERVED
RESERVED	55	56	GND
RESERVED	57	58	RESERVED
GND	59	60	RESERVED
RESERVED	61	62	3.3V
GND	63	64	RESERVED

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Table 3. Ethernet RJ45 (CN3) PIN DEFINITION

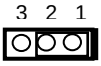
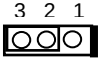


Pin	Signal	Function
1	TDP	Transmit Data (+)
2	TDN	Transmit Data (-)
3	RDP	Receive Data (+)
4	LANCT1	Termination
5	LANCT2	Termination
6	RDN	Receive Data (-)
7	NC	No Connect
8	GND	Ground

Table 4. Ethernet LED Display

LED Color	Status	Function
Green (Link/Active status)	ON	Link
	OFF	Link off
	Blinking	Data transfer in progress
Yellow (Speed status)	ON	100Mbps
	OFF	10Mbps

Table 5. Boot Rom Setting

Boot Rom Enable	JP1
Disable	
Enable	

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3

Installation

3.1 PMC Board Installation

Insert the face of the PMC-8611 into the front of the system board, which supports 32bit/33MHz PMC interface. Carefully align the PMC connector to the system board and firmly place it in the slot.

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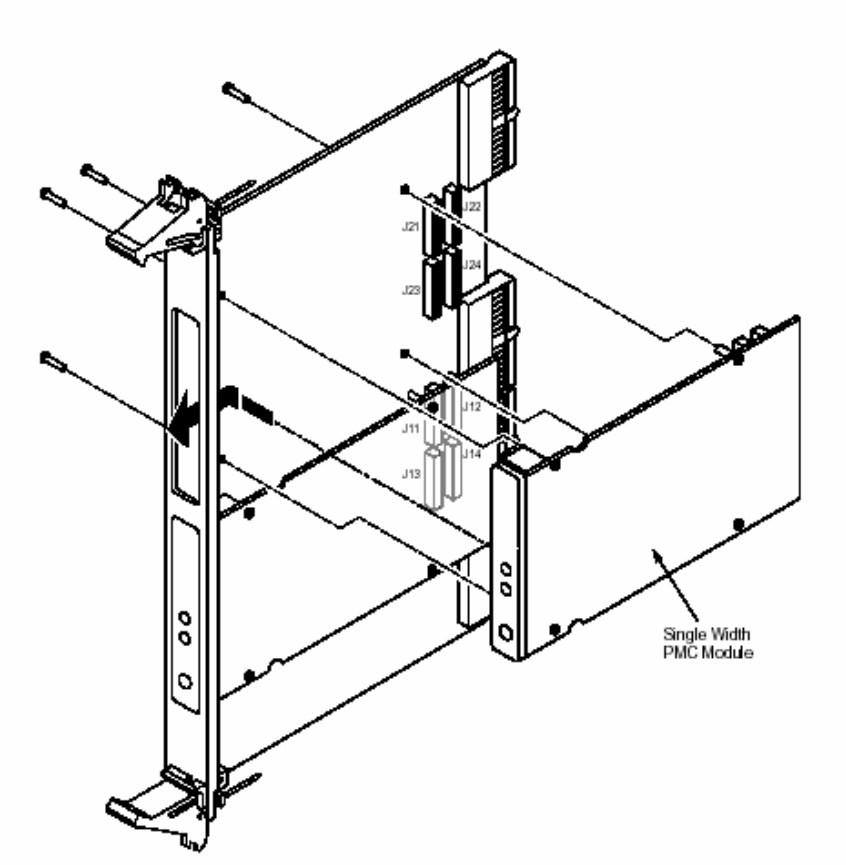


Figure 2.3 PMC-8611 Installation

3.2 Driver Installation

The driver software for the PMC-8611can be found on the All-in-One support CD-ROM: \CHIPDRV\LAN\100PDISK

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Warranty Policy

Thank you for choosing ADLINK. To understand your rights and enjoy all the after-sales services we offer, please read the following carefully:

1. Before using ADLINK's products please read the user manual and follow the instructions exactly.

2. When sending in damaged products for repair, please attach an RMA application form.

3. All ADLINK products come with a two-year guarantee, repaired free of charge.

    - The warranty period starts from the product's shipment date from ADLINK's factory.
    - Peripherals and third-party products not manufactured by ADLINK will be covered by the original manufacturers' warranty.
    - End users requiring maintenance services should contact their local dealers. Local warranty conditions will depend on local dealers.

4. This warranty will not cover repair costs due to:

    - Damage caused by not following instructions.
    - Damage caused by carelessness on the users' part during product transportation.
    - Damage caused by fire, earthquakes, floods, lightening, pollution, other acts of God, and/or incorrect usage of voltage transformers.
    - Damage caused by unsuitable storage environments (i.e. high temperatures, high humidity, or volatile chemicals.
    - Damage caused by leakage of battery fluid.
    - Damage from improper repair by unauthorized technicians.
    - Products with altered and/or damaged serial numbers.
    - Other categories not protected under our guarantees.

5. Customers are responsible for shipping costs to transport damaged products to our company or sales office.

6. To ensure the speed and quality of product repair, please download a RMA application form from our company website: www.adlinktech.com. Damaged products with attached RMA forms receive priority.

If you have any further questions, please contact our FAE staff.

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