M-815E

Socket 370 Micro ATX Industrial MB for Pentium® III /Celeron® Processors with VGA/USB 2.0

User's Guide

Recycled Paper

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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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How to Use This Guide

This manual is designed to assist users in understanding the M-815E and describes how to modify settings to meet specific application requirements.

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

Chapter 2 **Getting Started**
Describes unpacking and illustrates connector pin assignments.

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

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1

Introduction

M-815E is a low-cost, Intel Architecture (IA), Micro-ATX form factor, computer motherboard, targeted to run Windows NT, 2000, and Linux. M-815E is based on the Intel PGA370 socket processor with the Intel 815E AGP set. It accommodates either the Pentium III or Celeron processor.

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1.1 Features

- Socket 370 for Intel® Pentium® III / Celeron™ Processors, up to 1.4GHz
- Intel® 815E Chipsets + ICH2, 133/100MHz FSB
- Memory supports 133/100MHz SDRAM, up to 512MB
- Intel® 82562EM Fast Ethernet LAN, Support 10/100 Base-TX Ethernet
- AC97 Audio Codec, 2 x USB 2.0 ports / 2 x COM ports
- 3 x PCI / 2 x ISA Slots, 1 Type II CompactFlash
- WatchDog Timer & Hardware monitoring

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1.2 Specifications

Standards	Micro ATX
Form Factor	Standard Micro ATX Motherboard Dimensions: 244(L)x244(W)mm
CPU/Cache	Intel Socket 370 FC-PGA2 Pentium III with 512KB on-die L2 cache @ full core speed & 133MHz FSB Intel Socket 370 FC-PGA Pentium III with 256KB on-die L2 cache @ full core speed & 100/133MHz FSB Intel Socket 370 FC-PGA Celeron with 128KB on-die L2 cache @ full core speed & 66/100MHz FSB VIA Socket 370 FC-PGA C3 with 64/128KB L2 cache @ full core speed and 100/133MHz FSB
Front Side Bus Speed	133/100MHz
Chipset	Intel® 815E Integrated Gfx Memory Control Hub(GMCH), ICH2
BIOS	Award 4Mb flash memory
RAM	Two 168-pin DIMM sockets, Max. 512MB un-buffered PC-133 SDRAM
VGA	Intel 815E build-in hyper-pipelined architecture 3D graphics engine,4MB Video Cache for optimized performance, AGP 4X, ACPI, and VESA compliant
Ethernet	One 10/100 Fast Ethernet ports by Intel 82562 Ethernet Controller
IDE	ATA-100, dual channels
Floppy	Standard 34-pin connector
USB	Supports 2 x USB 2.0 ports Supports 2 x USB 1.1 ports
Super I/O	Winbond W83627HF, Two 16C550 UART compatible RS-232 COM ports with ESD protection up to 2kV Printer Port Supported
Hardware Monitoring	Monitoring CPU temperatures, FAN speed, system temperature, and Vcore, and DC voltages
Watchdog Timer	1-255 sec or 1-255 min software programmable, can generate NMI or system resets.
Audio	Integrated Audio Controllers with AC'97 Interface
External Power Connector	One ATX type connector
Extension slot	3 x PCI slots 2 x ISA slots 1 x Type II CompactFlash
Operating Temp.	0 to 55°C
Storage Temp.	-20 to 80°C
Relative humidity	10% to 90% (Non-Condensing)
Certificate or Test	CE, FCC class A, HALT

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2

Getting Started

This chapter describes how to prepare the M-815E for installation. Please carefully review the unpacking information before removing the product. Optional settings are also specified below.

2.1 What's Included

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

- M-815E Motherboard

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.

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2.2 Unpacking

The M-815E 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.

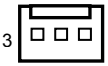
After opening the card module carton, extract the system module and place it only on a grounded anti-static surface, component side up.

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

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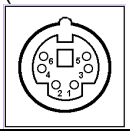
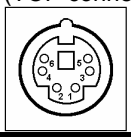
2.3 Pinouts

CN1: CPU FAN connector

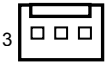


PIN	SIGNAL
1	GND
2	Fan power
3	Fan speed

CN2: PS2 KB/MS connector

PIN	SIGNAL	FUNCTION	COMMENTS
1	KBDAT_FB_L	Keyboard Data	Keyboard Interface (Bottom connector) 
2	NC	No Connect	
3	KYMSE_GND	Ground	
4	KB5V_FB	Power	
5	KBCLK_FB_L	Keyboard Clock	
6	NC	No Connect	
7	MSDAT_FB_L	Mouse Data	Mouse Interface (TOP connector) 
8	NC	No Connect	
9	KYMSE_GND	Ground	
10	KB5V_FB	Power	
11	MSCLK_FB_L	Mouse Clock	
12	NC	No Connect	

CN3: SYS FAN connector

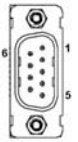


PIN	SIGNAL
1	GND
2	Fan power
3	Fan speed

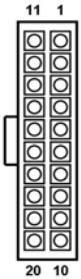
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CN4: COM1 DB-9 connector

PIN	SIGNAL	FUNCTION	COMMENTS
P1	SP_DCD0	Data Carrier Detect	COM1 Serial Port (Left Connector)
P2	SP_RXD0	Receive Data	
P3	SP_TXD0	Transmit Data	
P4	SP_DTR0	Data Terminal Ready	
P5	SRL_GND	Ground	
P6	SP_DSR0	Data Set Ready	
P7	SP_RTS0	Request to Send	
P8	SP_CTS0	Clear to Send	
P9	SP_RI0	Ring Indicate	

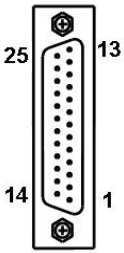


CN5: ATX 20-pin power connector



PIN	SIGNAL	PIN	SIGNAL
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	GND	13	GND
4	+5V	14	PS_ON#
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	PWRGOOD	18	-5V
9	STB5V	19	+5V
10	+12V	20	+5V

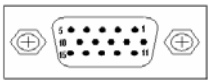
CN6: Parallel port DB-25 connector



SIGNAL NAME	PIN	PIN	SIGNAL NAME
Line printer strobe	1	14	AutoFeed
PD0, parallel data 0	2	15	Error
PD1, parallel data 1	3	16	Initialize
PD2, parallel data 2	4	17	Select In
PD3, parallel data 3	5	18	Ground
PD4, parallel data 4	6	19	Ground
PD5, parallel data 5	7	20	Ground
PD6, parallel data 6	8	21	Ground
PD7, parallel data 7	9	22	Ground
ACK, acknowledge	10	23	Ground
Busy	11	24	Ground
Paper empty	12	25	Ground
Select	13		

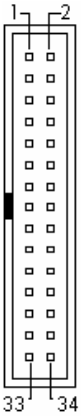
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CN7: VGA CRT connector



SIGNAL NAME	PIN	PIN	SIGNAL NAME
Red	1	2	Green
Blue	3	4	VCC pull-up
GND	5	6	GND
GND	7	8	GND
VCC	9	10	GND
VCC pull-up	11	12	DDC2B data
HSYNC	13	14	VSYNC
DDC2B clock	15		

CN8: Floppy connector



SIGNAL NAME	PIN	PIN	SIGNAL NAME
Ground	1	2	Drive density selection
Ground	3	4	N.C.
N.C.	5	6	N.C.
Ground	7	8	Index
Ground	9	10	Motor enable 0 (1)
Ground	11	12	Drive select 1
Ground	13	14	Drive select 0 (1)
Ground	15	16	Motor enable 1
Ground	17	18	Direction
Ground	19	20	Step
Ground	21	22	Write data
Ground	23	24	Write gate
Ground	25	26	Track 00
Ground	27	28	Write protect
Ground	29	30	Read data
Ground	31	32	Side 1 select
Ground	33	34	Diskette change

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CN10: RJ-45 LAN connector + USB 1.1 x2 connector

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	N.C.	No Connect
8	GND	Ground

PIN	SIGNAL NAME
1	VCC
2	USB1.1-
3	USB1.1+
4	Ground

CN11: Compact flash type I/II connector

Signal Name	Pin	Pin	Signal Name
GND	1	26	GND
SDD3	2	27	SDD11
SDD4	3	28	SDD12
SDD5	4	29	SDD13
SDD6	5	30	SDD14
SDD7	6	31	SDD15
SDCS#1	7	32	SDCS#3
GND	8	33	GND
GND	9	34	SDIOR#
GND	10	35	SDIOW#
GND	11	36	+5V
GND	12	37	IDEIRQ15
+5V	13	38	+5V
GND	14	39	PCSEL
GND	15	40	NC
GND	16	41	SIDERST#
GND	17	42	SIORDY
SDA2	18	43	NC
SDA1	19	44	SDDACK#
SDA0	20	45	IDEACT#
SDD0	21	46	S66DECT
SDD1	22	47	SDD8

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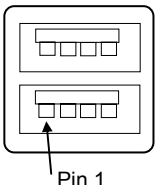
SDD2	23	48	SDD9
IOIS16#	24	49	SDD10
GND	25	50	GND

CN12, 13: IDE1,2 40-pin connector



SIGNAL NAME	PIN	PIN	SIGNAL NAME
Reset IDE	1	2	GND
PIDE Data 7	3	4	PIDE Data 8
PIDE Data 6	5	6	PIDE Data 9
PIDE Data 5	7	8	PIDE Data 10
PIDE Data 4	9	10	PIDE Data 11
PIDE Data 3	11	12	PIDE Data 12
PIDE Data 2	13	14	PIDE Data 13
PIDE Data 1	15	16	PIDE Data 14
PIDE Data 0	17	18	PIDE Data 15
Ground	19	20	KEY
DREQ0	21	22	GND
IDEIOW#	23	24	GND
IDEIOR#	25	26	GND
IDEIORDY	27	28	CBSEL
DACK0#	29	30	GND
IDEIRQ14	31	32	SCSEL
PIDE Address 1	33	34	PDIAG#
PIDE Address 0	35	36	PIDE Address 2
PIDE Chip select 1#	37	38	PIDE Chip select 3#
PIDE activity	39	40	GND
VCC	41	42	VCC
GND	43	44	N.C.

CN14: USB2.0 x2 connector



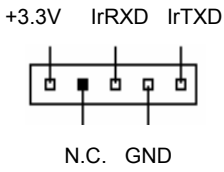
PIN	SIGNAL NAME
1	**VCC**
2	**USB-**
3	**USB+**
4	**Ground**

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CN15: CD-IN

PIN	SIGNAL NAME
1	CD audio right channel
2	GND
3	GND
4	CD audio left channel

CN16: IrDA connector



PIN	SIGNAL NAME
1	+3.3V
2	No connect
3	IrRXD
4	Ground
5	IrTXD

CN17: External thermal sensor connector



PIN	SIGNAL	FUNCTION
1	TSEN_I	Thermal resistor input
2	TSEN_G	Thermal resistor Ground

CN19: General Purpose System Signals

PIN	SIGNAL	FUNCTION	PIN GROUP
1	WDSPK	Speaker signal	Chassis Speaker
2	NC		
3	NC		
4	+5V	Power	
5	NC		
6	GND	Ground	Key Lock
7	KEYLOCK	Keyboard lock	
8	PLED	Power LED signal	Power LED
9	NC		
10	+5V	Power LED pull-up	
11	GND	Ground	RESET button
12	RESETBT	RESET signal	
13	NC		

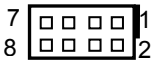
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14	GND	Ground	Power on button
15	POWERBT	Power-on signal	
16	NC		
17	NC		
18	HDDLED	Hard Disk LED signal	Hard Disk LED
19	+5V	Hard Disk LED pull-up	
20	NC		

CN20: COM2 Serial Ports

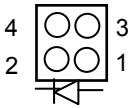
PIN	RS-232
1	DCD, Data carrier detect
2	RXD, Receive data
3	TXD, Transmit data
4	DTR, Data terminal ready
5	GND, ground
6	DSR, Data set ready
7	RTS, Request to send
8	CTS, Clear to send
9	RI, Ring indicator
10	NC

CN21: USB 1.1 pin header



PIN	PIN	SIGNAL NAME
1	**2**	**VCC**
3	**4**	**USB0- / USB1-**
5	**6**	**USB0+ / USB1+**
7	**8**	**Ground**

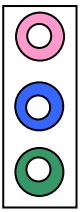
CN22: External LAN LED connector



PIN	FUNCTION
1-2	Speed 10/100
3-4	LINK/ACTIVE#

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PH1: Three-in-one audio phone jack



	SIGNAL NAME
PINK	MIC IN
LINE-IN	LINE IN
LINE-OUT	LINE OUT

PCI slots (PCI1, PCI2, PCI3)

5V BOARD PCI REVISION 2.1			
PIN	SIDE B	SIDE A	COMMENTS
1	-12V	TRST_L	32-bit start
2	TCK	+12V	
3	Ground	TMS	
4	TDO	TDI	
5	+5V	+5V	
6	+5V	INTA_L	
7	INTB_L	INTC_L	
8	INTD_L	+5V	
9	PRSNT1_L	Reserved	
10	Reserved	+5V	
11	PRSNT2_L	Reserved	
12	Ground	Ground	3.3V key
13	Ground	Ground	3.3V key
14	Reserved	Reserved	
15	Ground	RST_L	
16	CLK	+5V	
17	Ground	GNT_L	
18	REQ_L	Ground	
19	+5V	Reserved	
20	AD[31]	AD[30]	
21	AD[29]	+3.3V	
22	Ground	AD[28]	
23	AD[27]	AD[26]	
24	AD[25]	Ground	
25	+3.3V	AD[24] +3.3V	
26	C/BE[3]_L	IDSEL	
27	AD[23]	+3.3V	
28	Ground	AD[22]	

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5V BOARD PCI REVISION 2.1			
PIN	**SIDE B**	**SIDE A**	**COMMENTS**
29	AD[21]	AD[20]	
30	AD[19]	Ground	
31	+3.3V	AD[18]	
32	AD[17]	AD[16]	
33	C/BE[2]_L	+3.3V	
34	Ground	FRAME_L	
35	IRDY_L	Ground	
36	+3.3V	TRDY_L	
37	DEVSEL_L	Ground	
38	Ground	STOP_L	
39	LOCK_L	+3.3V	
40	PERR_L	Reserved	
41	+3.3V	Reserved	
42	SERR_L	Ground	
43	+3.3V	PAR	
44	C/BE[1]_L	AD[15]	
45	AD[14]	+3.3V	
46	Ground	AD[13]	
47	AD[12]	AD[11]	
48	AD[10]	Ground	
49	Ground	AD[09]	
50	KEYWAY	KEYWAY	5V key
51	KEYWAY	KEYWAY	5V key
52	AD[08]	C/BE[0]_L	
53	AD[07]	+3.3V	
54	+3.3V	AD[06]	
55	AD[05]	AD[04]	
56	AD[03]	Ground	
57	Ground	AD[02]	
58	AD[01]	AD[00]	
59	+5V	+5V	
60	ACK64_L	REQ64_L	
61	+5V	+5V	
62	+5V	+5V	32-bit end

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ISA slot

5V BOARD ISA SLOT			
PIN	**SIDE B**	**SIDE A**	**COMMENTS**
1	GND	IOCHK#	
2	RSTDRV	SD7	
3	+5V	SD6	
4	IRQ9	SD5	
5	+5V	SD4	
6	DRQ2	SD3	
7	-12V	SD2	
8	NOWS#	SD1	
9	+12V	SD0	
10	GND	IOCHRDY	
11	SMEMW#	AEN	
12	SMEMR#	SA19	
13	IOW#	SA18	
14	IOR#	SA17	
15	DACK#3	SA16	
16	DRQ3	SA15	
17	DACK#1	SA14	
18	DRQ1	SA13	
19	REFSH#	SA12	
20	SYSCLK	SA11	
21	IRQ7	SA10	
22	IRQ6	SA9	
23	IRQ5	SA8	
24	IRQ4	SA7	
25	IRQ3	SA6	
26	DACK#2	SA5	
27	TC	SA4	
28	BALE	SA3	
29	+5V	SA2	
30	OSC	SA1	
31	GND	SA0	
KEY			
PIN	**SIDE D**	**SIDE C**	**COMMENTS**
1	MCS16#	SBHE#	
2	IOCS#	LA23	
3	IRQ10	LA22	
4	IRQ11	LA21	
5	IRQ12	LA20	
6	IRQ14	SA19	

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7	IRQ15	SA18	
8	DACK#0	SA17	
9	DRQ0	MEMR#	
10	DACK#5	MEMW#	
11	DRQ5	SD8	
12	DACK#6	SD9	
13	DRQ6	SD10	
14	DACK#7	SD11	
15	DRQ7	SD12	
16	+5V	SD13	
17	MASTER#	SD14	
18	GND	SD15	

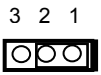
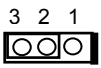
2.4 Jumper Settings

JP1 ：Clear CMOS jumper

The RTC RAM data containing the date, time, and password information, is powered by the onboard button cell battery.

To erase the RTC data:

1. Unplug the system
2. Short the JP4 Pins 2 and 3 instead of Pins 1 and 2
3. Turn the power on

RTC STATUS	JP4
Normal operation	
Clear RTC	

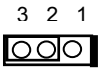
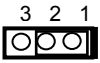
JP2: Case open jumper



PIN STATUS	FUNCTION
Open	Chassis open
Close	Chassis closed

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JP3: CF master/slave select jumper

CF1 MASTER/SLAVE	JP1
CF Master 2-3	
CF1 Slave 1-2	

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3

Driver Installation

This chapter describes the installation procedures of all the device drivers associated with the M-815E for Windows 98/ME/2000/XP. For installation information of non-Windows based operating systems, please refer the extensive explanation inside the ADLINK CD.

3.1 Intel(R) Chipset Software Installation Utility Installation

This section describes system requirements of Intel 815 chipset Device Driver. This driver has been designed for and tested with Windows 98/ME/2000/XP.

The system must contain an Intel Pentium-III processor and chipset configuration. Ensure that a mouse is connected to the system. One of the following versions of Windows 98/ME/2000/XP must be installed on the system prior to running the utility program:

- Windows* 98 SE 4.10.2222 (Original Release)
- Windows* Me 4.90.3000 (Original Release)
- Windows* 2000 5.00.2195 (Original Release)
- Windows* XP 5.10.2600 (Original Release)

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Installing Hardware Configuration Files

This subsection describes how to install the hardware configuration file on a system where Windows 98/ME/2000/XP is installed.

Note: Record the location of the Windows 98/ME/2000/XP directory before installing the driver.

1. Check the System Requirements. Windows 98/ME/2000/XP must be fully installed and running on the system prior to running this software.

2. Close any running applications.

3. The files are stored in an integrated application setup program. This program is designed for a Windows 98/ME/2000/XP program that allows the INF files to be installed.

4. Locate the directory ***X:\CHIPDRV\Chipset\I815*** in the CD-ROM, and then Run "***infinst_autol.exe***".

5. Click ***'Next'*** on the Welcome screen to read and agree to the license agreement. Click ***Yes*** if you agree to continue. NOTE: If you click ***No***, the program will terminate.

6. Click '***Next***' on Readme Information screen to install INF files.

7. Click '***Finish***' to restart the system when prompted to do so.

8. Follow the screen instructions and use the default settings to complete the setup when Windows 98/ME/2000/XP re-starts. Upon re-start, Windows will display that it has found new hardware and is installing drivers for them. If **New Hardware Found** dialog box is displayed requesting the location of the drivers, use the mouse to click on the scrollbar and click on the <Windows directory>.

9. Select ***Yes***, when prompted to re-start Windows 98/ME/2000/XP.

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3.2 VGA Driver Installation

This section provides information on how to install the VGA driver that comes on the Compact Disk with the package. Please follow the instructions set forth in this section carefully. Please note that there must be relevant software installed in your system before you could proceed to install the VGA driver.

Installing Drivers for Windows 98/ME/2000/XP

The following section describes the normal display driver installation procedures for Windows 98/ME/2000/XP. Use the following procedures when installing the display drivers for Windows 98/ME/2000/XP.

Installing the Drivers for Windows 98/ME

1. Boot Windows 98/ME.

2. The driver is included in the ADLINK CD. Run the ***win9xm67.exe*** under the following directory: ***X:\CHIPDRV\VGA\I815***.

3. Click ***Next***> on Welcome screen. And select Typical on Setup Type screen and click ***Next***>.

4. Use default program folders on Select Program Folder screen. Click ***Next***> to install driver. Finally, click Finish to re-start.

5. ***X:\CHIPDRV\VGA\I815***.

6. Click ***Next***> on Welcome screen. And select *Typical* on Setup Type screen and click ***Next***>.

7. Use default program folders on Select Program Folder screen. Click ***Next***> to install driver. Finally, click Finish to re-start.

Installing the Drivers for Windows 2000/XP

1. Boot Windows 2000/XP.

2. The driver is included in the ADLINK CD. Run the ***win2k_xpm67.exe*** under the following directory: ***X:\CHIPDRV\VGA\I815***.

3. Click ***Next>*** on Welcome screen. And select *Typical* on Setup Type screen and click ***Next>***.

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4. Use default program folders on Select Program Folder screen. Click ***Next>*** to install driver. Finally, click ***Finish*** to re-start.

3.3 LAN Driver Installation

This section describes the LAN driver installation for the onboard Ethernet controllers, the ***Intel ® PRO/100VM***. The relative drivers are located in the following ADLINK CD directory: ***X:\CHIPDRV\LAN***.

The Intel LAN driver supports the following OS or platforms: Windows 98, Windows ME, Windows, Windows 2000, and Windows XP

All the above drivers are included in the ADLINK CD. In the following section, we will describe the LAN driver installation for Windows 98/ME and Windows 2000/XP. For LAN driver installation of other OS's, please refer to the readme file in the CD.

Driver Installation on Windows 98/ME

Windows 98 will install the LAN drivers automatically. We recommend you to manually update the LAN drivers that come with the ADLINK CD to guarantee compatibility. After installing Windows 98, please update to the new drivers by following these procedures.

1. Boot Windows 98.

2. The driver is included in the ADLINK CD. Run the ***pro98me.exe*** under the following directory: ***X:\CHIPDRV\LAN\8262EM***.

3. On the license agreement to read and agree to the license agreement. Click ***'I accept the terms in the license agreement'*** if you agree to continue.

4. Location to Save Files, click ***Next*** to save files in folder.

5. Intel PRO Network Connections, click ***Install Software*** to install drivers and Intel PROSet.

Driver Installation on Windows 2000/XP

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Windows 2000/XP may automatically try to install a LAN driver within its directory. We recommend you to manually install the most updated LAN driver, which comes with the ADLINK CD to guarantee compatibility. After installing Windows 2000/XP, please update to the new drivers by following these procedures.

1. Boot Windows 2000/XP.

2. The driver is included in the ADLINK CD. Run the ***pro2kxp.exe*** under the following directory: ***X:\CHIPDRV\LAN\8262EM***.

3. On the license agreement to read and agree to the license agreement. Click ***'I accept the terms in the license agreement'*** if you agree to continue.

4. Location to Save Files, click ***Next*** to save files in folder.

5. Intel PRO Network Connections, click ***Install Software*** to install drivers and Intel PROSet.

3.4 USB 2.0 Driver Installation

This section describes the USB 2.0 driver installation for the onboard USB 2.0 controller (Philips ISP1561 Enhanced Host Controller).

Installing Drivers for Windows 98

1. Choice the ***Start→Settings→Control Panel→System→Device Manager***.

2. Choice the ***Other device→PCI Universal Serial Bus***→right click and choice ***Properties→Driver→Update Drive*** .

3. Update Device Driver Wizard, click ***Next***.

4. Choice the '***Search for a better driver than the one your device is using now (Recommended)***', and click ***Next***.

5. Choice the '***Specify a location***', and choice browse ***X:\CHIPDRV\USB2.0\M67-USB98*** in the CD-ROM, click ***Next***.

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6. Choice '***The updated driver (Recommended) Philips Enhance Host Controller Es4***' and click ***Next***.

7. Windows driver files search for the device: Philips Enhance Host Controller Es4 and click ***Next*** .

8. Finally, click ***Finish*** and the USB 2.0 driver installation is complete.

Installing Drivers for Windows 2000

Note: Before installing the USB 2.0 driver, the M67 must connected to the internet.

1. Choice the ***Start→Settings→Control Panel→System→hardware→Device Manager***.
2. Choice the ***Other device→Universal Serial Bus (USB)Controller***→right click and choice ***Properties→Driver→Update Driver*** .
3. Update Device Driver Wizard, click ***Next*** .
4. Choice the '***Search for a suitable driver for my device (Recommended)***', and click ***Next*** .
5. Locate Driver Files, choice the '***Microsoft Windows Update***' and click ***Next***.
6. Driver Files Search Results, click ***Next*** .
7. Completing the Upgrade Device Driver Wizard, '***standard Enhanced PCI to USB Host Controller***' and click ***Finish***, the USB 2.0 driver installation is complete.

Installing Drivers for Windows XP

Update Windows XP to SP1 and the USB 2.0 driver installation is complete automatically.

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3.5 AUDIO Driver Installation

This section describes the AUDIO driver installation for the onboard AUDIO controllers, the ***Avance AC'97 audio driver***. The relative drivers are located in the following ADLINK CD directory: ***X:\CHIPDRV\AUDIO***

Installing Drivers for Windows 98/ME/2000/XP

The following section describes the normal AUDIO driver installation procedures for Windows 98/ME/2000/XP.

Installing the Drivers for Windows 98/ME/2000/XP

1. Boot Windows 98SE/ME/2000/XP.
2. Locate the directory ***X:\CHIPDRV\ACL-200\WDM*** in the CD-ROM, and then Run "***Setup.exe***".
3. Click ***Next>*** on Welcome screen, and click ***Next>***.
4. Finally, click ***Finish*** to restart.

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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.

For further questions, please contact our FAE staff.

ADLINK: service@adlinktech.com

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