

AIMC-3202

Micro Computer, Intel® Core™ i7/i5/i3 CPU, H110, 2 Expansions, 250W 80Plus PSU Startup Manual

Packing List

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

1. AIMC-3202 Bare System x 1
P/N: AIMC-3202-00A1E
(AIMC-3202-01A1E)
2. Driver CD x 1
P/N: 2061302900
3. USB 2.0 Cable x 1
P/N: 1700014398
4. USB 3.0 Cable x 1
P/N: 1700020277-01
5. Four-port USB Cable x 1
P/N: 1700014398
6. LPT Cable x 1
P/N: 1700002223
7. Mounting Brackets x 2
P/N: 1960014487T00C
8. Rubber Foot x 4
P/N: 1990012452S000

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

Note 1: For detailed contents of AIMC-3202, please refer to information on the enclosed CD-ROM (in PDF format).

Note 2: Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: get.adobe.com/reader (Acrobat is a trademark of Adobe)

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

<http://www.advantech.com/eplatform>

For technical support and service, please visit our support website at:

<http://support.advantech.com.tw/support/default.aspx>

This manual is for the AIMC-3202 Series Rev. A1.

Part No. 2001320200

1st Edition
October 2016

Printed in China

Specifications

Processor System

Processor System	CPU	i7-6700	i7-6700TE	i5-6500	i5-6500TE	i3-6100	i3-6100TE	G 4400	G 4400TE	G 3900	G 3900TE
Core	4	4	4	4	2	2	2	2	2	2	2
Base Frequency (0 ~ 40° C for 65W CPU)	3.4 GHz	2.4 GHz	3.2 GHz	2.3 GHz	3.7 GHz	2.7 GHz	3.3 GHz	2.9 GHz	2.8 GHz	2.6 GHz	2.6 GHz
L3 Cache (0 ~ 40° C for 35W CPU)	8M	8M	8M	8M	4M	4M	3M	3M	2M	2M	2M
Chipset	H110										
BIOS	AMI 128Mb SPI Flash										

* Part Number iX-XXXXTX & GXXXXXX can use 1U CPU Cooler for 2 Expansion slots. Other CPUs have to use 1.5U Cooler for 1 Expansion slot.

BIOS

- AMI 128 Mbit SPI Flash

Chipset

- Intel H110

Memory

- Supports Dual Channel DDR4 1866/2133 16 GB per DIMM, Max capacity is 32 GB

Graphic

- Chipset: Intel® HD Graphics

Expansion Slot

- **AIMC-3202-00:**
 - One PCIe x16 (Upper-layer slot)
 - One PCIe x4 (Lower-layer slot)
- **AIMC-3202-01:**
 - One PCI (Upper-layer slot)
 - One PCIe x16 (Lower-layer slot)

Ethernet

- **Chipset support:**
 - LAN 1: Intel® I219V
 - LAN 2: Intel® I211AT
- **Connection:** 2 x on-board RJ-45 connector with LED indicators

SATA

- **Max Data Transfer Rate:** 600 MB/s (SATA 3.0)
- **HDD Bay:** 2 internal 2.5"

I/O Interface

- **Display:** VGA + DVI-D
- **USB:** 3 USB3.0
- **PS/2:** 1

Watchdog Timer

- Programmable 1~255 sec/min

Specifications (Cont.)

Power Supply

- **Output Rating:** AC 250W, ATX
- **Input Voltage:** 100 VAC ~ 240 VAC

Cooling

- **System Fan:** 2 (6cm / 27.7 CFM)
- **Air Filter:** Yes

Environment

- **Operating Temperature:** 0 ~ 40°C (32 ~ 104°F)
- **Non-operating Temperature:** -20 ~ 60°C (-4 ~ 140°F)
- **Operating Humidity:** 10 ~ 85% @ 40°C, non-condensing
- **Non-operating Humidity:** 10 ~ 95% @ 40°C, non-condensing

Physical Characteristics

- **Dimension (WxHxD):** 232 x 90 x 232 mm

Jumpers and Connectors

The board has a number of jumpers that allow you to configure your system to suit your application. The table below lists the function of each of the jumpers and connectors.

Connectors	
Label	Function
LPT1	Parallel port, supports SPP/EPP/ECP mode
LAN1	Intel I219V
LAN2	Intel I211AT
VGA1	VGA connector
KBMS1	External keyboard/mouse connector
COM12	Box header for RS-232*2
FP1	HDD LED, power LED, SNMP SM_Bus, reset, power on/off
JCASE1	Case open
CPUFAN1	CPU FAN connector (4-pin)
LANLED1	LAN1/2 LED connector
HDAUD1	HD audio extension module connector
USB1	USB port 1 (USB 3.0 port)
USB23	USB port 2, 3 (USB 3.0 port)
USB45	USB port 4, 5 (USB 2.0)
USB67	USB port 6, 7 (USB 2.0)
USB89	USB port 8, 9 (USB 2.0)
USB11	Type A connector on board (USB 2.0)
SATA0	Serial ATA1 (SATA 3.0)
SATA1	Serial ATA2 (SATA 3.0)
SATA2	Serial ATA3 (SATA 3.0)

Jumpers and Connectors (Cont.)

SATA3	Serial ATA4 (SATA 3.0)
CPU1	CPU Socket
DIMMA1	Memory connector channel A
DIMMB1	Memory connector channel B
GPIO1	GPIO pin header
LPC1	Low pin count module expansion pin-header
PWR1	12 V, 5 V power connector
DVI1	DVI connector
DP1	Display pin header to stack board (Display type depends on optional stack board)
EXPCIE1	mini PCIe pin header to stack board
MINIPCIE MSATA	M-SATA (default) or mini-PCIe connector (optional for PCE-4129)

Jumpers

Label	Function
JCMOS1	CMOS clear
JOBS1+JWDT1	Hardware monitor alarm+watchdog timer output selection
JME1	Enable ME

JCMOS1: Clear CMOS

Closed Pins	Result
1-2	Keep CMOS (Default)
2-3	Clear CMOS

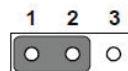
JOBS1+JWDT1: Hardware monitor alarm+watchdog timer output selection

Function	Jumper Setting
2-3	Enable watchdog timer (Default)
4-5	Enable Hardware monitor alarm (Default)



JME1: Enable ME

Closed Pins	Result
1-2	Enable ME (Default)
2-3	Disable ME



Software Installation

The drivers for the AIMC-3202 are located on the software installation CD. Please click through the folder and follow the on screen instructions to install them.

Caution! The computer is supplied with a battery-powered realtime clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to manufacturer's instructions.

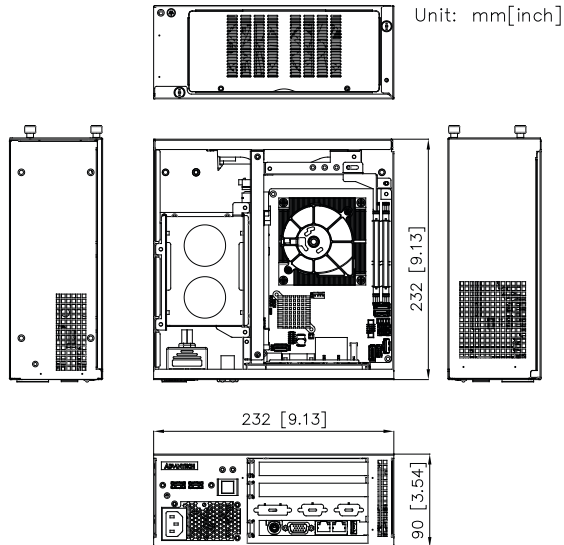


Declaration of Conformity

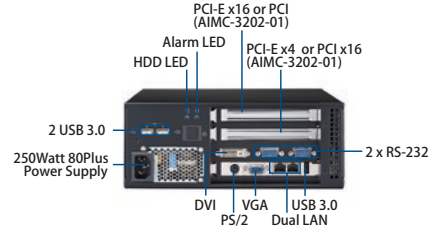
This device complies with the requirements in Part 15 of the FCC rules. Operation is subject to the following two conditions:

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

System Dimensions



System I/O Interface



AIMC-3201

微型计算机, Intel® Core™ i7/i5/i3 CPU,
110, 2扩展槽, 250W 80Plus PSU
快速入门手册

包装清单

安装系统之前, 用户需确认包装中含有本设备以及下面所列各项:

- | | |
|---------------------|---|
| 1. AIMC-3202准系统 x 1 | P/N: AIMC-3202-00A1E
(AIMC-3202-01A1E) |
| 2. 驱动光盘 x 1 | P/N: 2061302900 |
| 3. USB2.0电缆 x 1 | P/N: 1700014398 |
| 4. USB3.0电缆 x 1 | P/N: 1700020277-01 |
| 5. 4端口USB电缆 x 1 | P/N: 1700014398 |
| 6. LPT电缆 x 1 | P/N: 1700002223 |
| 7. 安装支架 x 2 | P/N: 1960014487T00C |
| 8. 橡胶垫脚 x 4 | P/N: 1990012452S000 |

如果其中任何一项缺失或损坏, 请立即与经销商或销售代表联系。

- 注1: 有关AIMC-3202产品的详细信息, 请参考CD光盘中的信息 (PDF格式)。
- 注2: 阅读PDF文件需要使用Acrobat Reader。用户可从以下路径下载Acrobat Reader: get.adobe.com/reader (Acrobat为Adobe公司的商标)

如需了解有关产品及研华其它产品的详细信息, 请访问我们的网站:

<http://www.advantech.com>

<http://www.advantech.com/eplatform>

如需技术服务与支持, 请访问我们的技术支持网站:

<http://support.advantech.com.tw/support/default.aspx>

本手册适用于AIMC-3202系列Rev. A1。

料号: 2001320200
中国印刷

第一版
2016年10月

产品规格

处理器系统

CPU	17-6700	17-6700TE	15-6500	15-6500TE	13-6100	13-6100TE	6-4400	6-4400TE	6-3900	6-3900TE
处理器系统 (60W CPU的温度 范围为 9 ~ 40°C)	4	4	4	4	2	2	2	2	2	2
基频	3.4 GHz	2.4 GHz	3.2 GHz	2.3 GHz	3.7 GHz	2.7 GHz	3.3 GHz	2.9 GHz	2.8 GHz	2.6 GHz
30W CPU的温度 范围为 9 ~ 45°C)	4	4	4	4	2	2	2	2	2	2
芯片组	H110									
BIOS	AMI 128Mb SPI Flash									

* 料号1X-XXXXTX & GXXXXXX的2个扩展槽可使用1U CPU冷却器, 而其它CPU需要为1个扩展槽使用1.5U冷却器。

BIOS

- AMI 128 Mbit SPI Flash

芯片组

- Intel 110

内存

- 支持双通道DDR4 1866/2133, 每个DIMM为16 GB, 最大容量为32 GB

显示

- 芯片组: Intel® HD Graphics

扩展插槽

- AIMC-3202-00:
 - 1个PCIe x16 (上层插槽)
 - 1个PCIe x4 (下层插槽)
- AIMC-3202-01:
 - 1个PCI (上层插槽)
 - 1个PCIe x16 (下层插槽)

以太网

- 芯片组支持:
 - LAN 1: Intel® I219V
 - LAN 2: Intel® I211AT
- 连接: 2个板载RJ-45接口, 带LED指示灯

SATA

- 最大数据传输速率: 600 MB/s (SATA 3.0)
- HDD磁盘盒: 2个内置2.5"

I/O接口

- 显示: VGA + DVI-D
- USB: 3个USB3.0接口
- PS/2: 1

看门狗定时器

- 可编程1~255秒/分

产品规格（续）

电源

- 输出功率：AC 250 W, ATX
- 输入电压：100 VAC ~ 240 VAC

冷却

- 系统风扇：2（6 cm/27.7 CFM）
- 空气过滤器：有

环境

- 工作温度：0 ~ 40° C（32 ~ 104° F）
- 非工作温度：-20 ~ 60° C（-4 ~ 140° F）
- 工作湿度：10 ~ 85% @ 40° C，非凝结
- 非工作湿度：10 ~ 95% @ 40° C，非凝结

物理特性

- 尺寸（W x H x D）：232 x 90 x 232 mm

跳线和接口

主板上有很多跳线允许用户配置系统，满足各种不同应用需求。下表为每个跳线和接口的功能列表。

接口	
接口	功能
LPT1	并行端口，支持SPP/EPP/ECP模式
LAN1	Intel I217V
LAN2	Intel I211AT
VGA1	VGA接口
KBMS1	外部键盘/鼠标接口
COM12	简牛，用于RS-232 * 2
FP1	HDD LED、电源LED、SNMP SM_Bus、重启按钮、电源开关
JCASE1	机箱打开
CPUFAN1	CPU风扇接口（4针）
LANLED1	LAN1/2 LED指示灯接口
HDAUD1	HD音频扩展模块接口
USB1	USB接口1（USB3.0接口）
USB23	USB接口2、3（USB3.0接口）
USB45	USB接口4、5（USB2.0）
USB67	USB接口6、7（USB2.0）
USB89	USB接口8、9（USB2.0）
USB911	Type A板载接口（USB2.0）
SATA0	串行ATA1（SATA3.0）
SATA1	串行ATA2（SATA3.0）
SATA2	串行ATA3（SATA2.0）
SATA3	串行ATA4（SATA2.0）

跳线和接口（续）

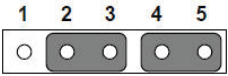
CPU1	CPU插槽
DIMMA1	内存接口通道A1
DIMMB1	内存接口通道B1
GPI01	GPIO排针
LPC1	低脚位模块扩展排针
PWR1	12 V、5 V电源接口
DVI1	DVI接口
DP1	连接到堆叠板的显示排针（显示类型取决于选配堆叠板）
EXPCIE1	连接到堆叠板的mini PCIe排针
MINIPCIE MSATA	M-SATA（默认）或mini-PCIe接口（选配适用于PCE-4129）

跳线

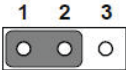
跳线	功能
JCMOS1	清除CMOS
JOBS1+JWDT1	硬件监视器报警 + 看门狗定时器输出选择
JME1	启用ME

JCMOS1：清除CMOS	
闭合针脚	结果
1-2	保留CMOS（默认）
2-3	清除CMOS

JOBS1+JWDT1：硬件监视器报警 + 看门狗定时器输出选择	
闭合针脚	跳线设置
2-3	启用看门狗定时器（默认）
4-5	启用硬件监视器报警（默认）



JME1：启用ME	
闭合针脚	结果
1-2	启用ME（默认）
2-3	禁用ME



软件安装

AIMC-3202的驱动位于软件安装光盘中。请点击文件夹后并按照屏幕指示进行操作。

注意! 计算机配置了由电池供电的实时时钟电路, 如果电池更换不正确, 将有爆炸的危险。因此, 只可以使用制造商推荐的同一种或者同等型号的电池进行替换。请按照制造商的指示处理旧电池。

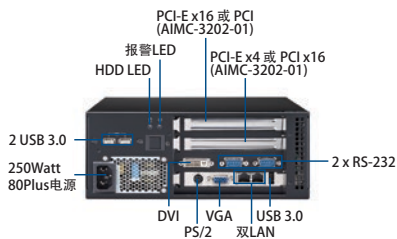


符合性声明

本品符合FCC规则第15款限制。操作符合下列两种情况:

1. 此设备不可产生干扰, 且
2. 此设备必须接受任何干扰, 包括可能导致非预期造作的干扰。

系统I/O接口



系统尺寸

