AEC-206

Wallmount Chassis

OZONE SAFE

RECYCLABLE

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1

General Information

1.1 Introduction

The AEC-206 is 6-slot industrial wall-mount chassis ideal for wall-mount and space-constrained applications. Especially in rugged factory floor environment, AEC-206 ensures stable operation to free you from shut down risk or any other disturbance.

The AEC-206 comes with a 6-slots PICMG or an ISA backplane to maximize the high performance of Pentium 4 full-size CPU Card. An ATX 12V power supply up to 300W is also equipped dedicated to Pentium 4 CPU Card. Inside this chassis, you can attach one 5.25" CD-ROM, one Floppy and TWO 3.5" Hard disk drives for high data storage capacity. Despite of the high density inside, you never worry about the overheating of the chassis because we attach one 12x12 system fan in the chassis front cover for excellent heat dissipation.

On the front panel of AEC-206, two LED indicators indicate the power and HDD activity. The front panel also provides two switches for system reset and power ON/OFF. And two USB ports beside the LED indicators provide easy-to-access interface for your various USB peripherals. At the bottom of AEC-206, one set of wallmount kit reserves the flexibility for wallmount application.

1.2 Features

- Supports high performance Full-Size CPU Cards

- Supports 6-slot PICMG bus passive backplanes

- Supports wallmount or desktop applications

- Supports one front access 5.25" CD-ROM, one 3.5" FDD and two 3.5" HDD drive bays

- One easy-to-replace ball bearing cooling fan with filter for card area

- Supports one card hold-down bar

- Special modular design allows users to maintain the system with minimum down time

1.3 Specification

System

- Construction: Heavy-duty steel chassis

- Disk drive bay: External - one 3.5" FDD or 5.25" CD-ROM; Internal - two 3.5" HDD

- System cooling fan: one 12 x 12 cm ball bearing fan with filter (Flow-in)

- Controls: Power ON/OFF switch, reset switch

- Indicator: HDD LED, Power ON LED

- I/O Port: One LVDS, one COM port, one parallel port, two USB on front panel

- Power supply: 1U ATX, ATX12V and AT power

- Dimensions (W x H x D): 9.05" x 8.51" x 15.55" (230mm x 216.2mm x 395mm)

- Net weight (Bare): 17.6 lb (8 kg)

- Color: Black

- Operating temperature: 5-95%@40°C, non-condensing

- Storage humidity: 5-95%

Passive Backplane Options

Backplane Model No.	Slots per Segment (PISA/PCI/ISA/PICMG)	Segment (Systems)
BP-206SI-V60	0/0/6/0	Single
BP-206SG-P3-V61	0/4/1/2	Single

Power Supply Options

Model Number	Specification				
	Watt	Type	LxWxH(mm)	Input	Output
1757215001	150W	AT	180x100x40.5	115/230V	5/12/-5/-12
1757215002	150W	ATX	180x100x40.5	115/230V	3.3/5/12/-5/-12/5Vsb
1757220001	200W	ATX12V	200x100x40.5	115/230V	3.3/5/12/-5/-12/5Vsb
1757215004	300W	ATX12V	200x100x40.5	115/230V	3.3/5/12/-5/-12/5Vsb

1.4 Dimension Diagram
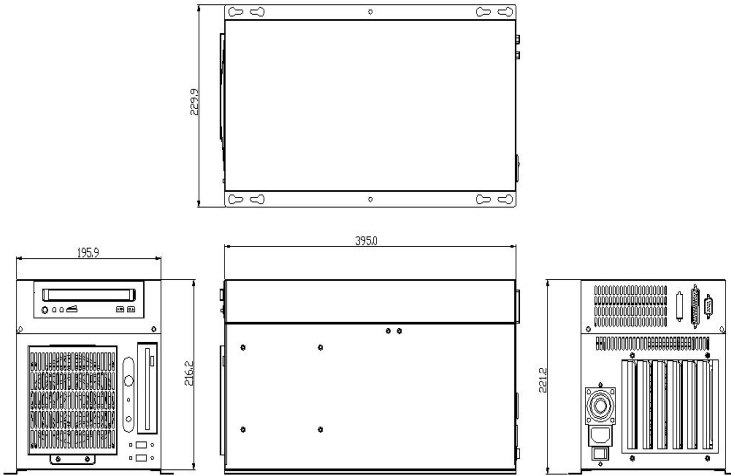
1.5 Connectors and Drive Bay Location Diagram

1. Two internal 3.5" hard disk bay

2. 5.25" CD-ROM drive

3. Floppy drive

4. Two USB ports

5. Power ON/OFF Switch and LED, HDD LED, Reset Switch.

6. 12cm cooling fan with filter(flow-in)

7. Hold-down bar
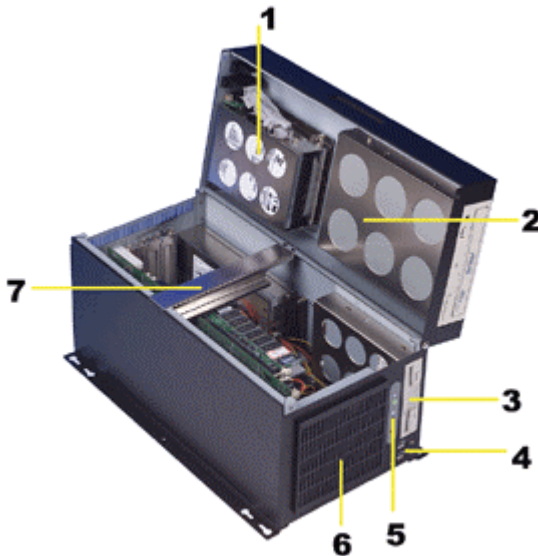
8.　COM port

9.　Parallel port

10.　LVDS Interface

11.　Hot-Air outlet

12.　Power supply

Chapter

2

Quick Installation Guide

2.1 Removing the cover

Before you install any drives or plug-in cards into AEC-206, you have to open the cover and remove the hold-down bar first.

● Unscrew the cover, lift the lid and keep the top of the chassis open.

● Unscrew the hold-down bar and remove it.

2.2 Adding a Floppy Drive

To install a floppy drive, please refer to the following charts and procedures.

● Unscrew the mounting bracket from the chassis.

● Remove the black front bracket and insert the FDD into the mounting bracket with its base facing inward.

● Connect a 34-pin flat cable and power cable to the FDD, and attach the FDD to the bracket with four screws.

● Attach the mounting bracket with the FDD inside to the chassis with four screws.

2.3 Adding a CD-ROM Drive

To install a CD-ROM drive, please refer to the following charts and procedures.

● Unscrew the mounting bracket from the chassis.

● Unscrew the black front bracket and insert the CD-ROM drive into the mounting bracket with its base facing inward. Connect a 40-pin flat cable and power cable to the CD-ROM drive, and attach it to the bracket with four screws.

● Attach the mounting bracket with the CD-ROM drive inside to the chassis with four screws.

2.4 Adding a Hard Disk Drive

To install a hard disk drive, please refer to the following charts and procedures.

● Unscrew the mounting bracket from the chassis.

● Insert the hard disk drive to the mounting bracket and get it screwed in the four holes on the side of the hard disk.

● Attach the mounting bracket with the hard disk drive inside to the chassis with four screws.

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2.5 Adding the hold-down bar

After you assemble all the drives, plug-in cards and cables inside the chassis, be sure to put the hold-down bar back to strength its anti-vibration ability.

● Screw the hold-down bar to the same location from where it was removed in the first step.

● Then close the cover of the chassis and get it screwed.

2.6 Replacing the filter

You may need to replace the used filter after a period of time.
Please refer to the following charts and procedures.

● Remove the two screws located at the bottom of the filter cover then pull the cover free from the chassis

● Remove the filter and replace it with a new one.

● Insert the filter and the cover back to the chassis and screw the cover through the hole at the bottom.

2.7 Adding the wallmount kit

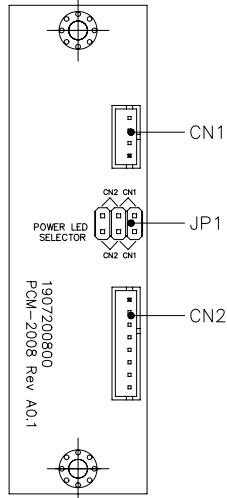You can easily mount AEC-206 onto wall with the supplied
wallmount kit.

- Turn over the chassis to expose its bottom upward.

- Fasten the two brackets with six screws.

Appendix

A

Front Panel Daughterboard and backplane

A.1 Front Panel Daughterboard Mechanical Drawing

A.2 Front Panel Daughterboard Jumpers & Connectors

The board has a number of jumper and connectors that allow you to configure your system to suit your application.

Power LED Selection(JP1)

JP1	Function
1-3, 2-4	Power LED Controlled by CN2 (Default)
3-5, 4-6	Power LED Controlled by CN1

Power Connector(CN1)

This power connector is used for AT mode with ATX power supply.

Pin	Signal
1	+5VSB(AT Mode on ATX Power Supply)
2	+5V (AT Mode on ATX Power Supply)
3	PS_ON (AT Mode on ATX Power Supply)
4	GND (AT Mode on ATX Power Supply)

I/O Connector(CN2)

Pin	Signal
1	PWRSW_P1 (ATX Mode)
2	PWRSW_P2 (ATX Mode)
3	PWRLED+ (ATX Mode)
4	PWRLED- (ATX Mode)
5	IDELED+
6	IDELED-
7	RESETSW_P1
8	RESETSW_P2

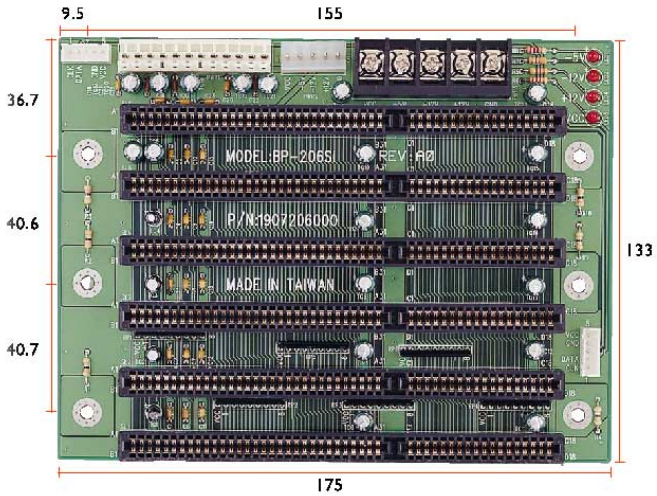Note: Negative is white cable and all other cables are positive.

A.3 Backplane

AEC-206 comes with one backplane for expansion. You can select either BP206SI-V60 or BP206SG-P3-V61 based on your application.

Backplane Model No.	Slots per Segment (PISA/PCI/ISA/PICMG)	Segment (Systems)
BP206SI-V60	0/0/6/0	Single
BP206SG-P3-V61	0/4/1/2	Single

BP206SI-V60   Unit: mm

BP206SG-P3-V61   Unit: mm