ARC-6205

2U 5-Slot Industrial Rackmount Chassis

Notice:

This guide is designed for experienced users to setup the system within the shortest time. For detailed information, please refer to the electronic user's manual.

Safety Precautions

Warning! *Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.*

Caution! *Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.*

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Notice

Dear Customer,

Thank you for purchasing the ARC-6205 chassis. This quick installation guide is designed to assist you. Please read it thoroughly before you install and use this chassis. The product that you have purchased comes with a two year limited warranty, however AAEON will not be responsible for misuse of the product. Therefore, we strongly urge you to read this installation guide before using the product.

To receive any other information or if you have a question, please visit our Web site at:

http://www.aaeon.com

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AAEON reserves the right to make changes in the product design without notice to its users.

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FCC STATEMENT

This devise complies with part 15 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 operations.

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 equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Introduction

The ARC-6205 2U 5-slot industrial rackmount chassis is an ideal housing unit for system integration using any of AAEON's single board computers.

Popularity of 19" rackmount chassis has increased significantly in the industrial and information market. The ease of customization and large capacity for information storage has made ARC-6205 ideal for telecommunications customers, and internet providers.

The numerous onboard features guarantee our customers a high quality product while expanding their server capabilities. Two internal cooling fans, 2 x 8 cm circulates 42 CFM of air (each). High grade treated steel are all machine bend offering maximum strength and stability. Special modular design allows for repair or alterations with minimal downtime.

Quick Installation Guide

Features

- Space-saving 2U chassis; ideal building block for expansion of your system rack

- Supports 5-slot ISA/PICMG/PCI backplanes

- Shock resistant disk drive bay holds one 5.25" and one 3.5" drive in front, and three 3.5" drives inside the chassis.

- Dual easy-to-replace ball bearing cooling fans with front-access air filter (2 x 8 cm, 42.5 CFM/each)

- Versatile AC/DC power supply option

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

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Packing List

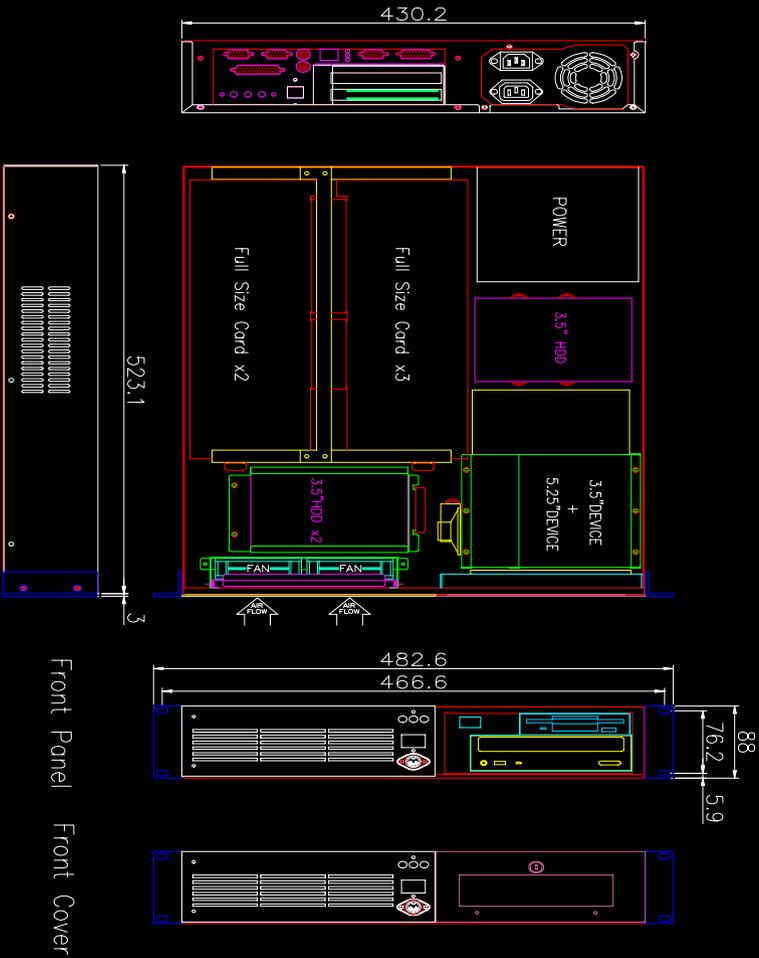Before you begin installing your card, please make sure that the following materials are included:

• 1 AAEON 2U 5-slot Industrial Rackmount Chassis

• 1 Quick Installation Guide

• 1 Accessory bag (screws, mounting brackets, and vibration pads)

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

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DIMENSION

430.2

POWER

Full Size Card x2

Full Size Card x3

523.1

3.5" HDD

3.5"HDD x2

3.5"DEVICE
+
5.25"DEVICE

FAN   FAN

AIR
FLOW   AIR
FLOW

3

Front Panel   Front Cover

482.6
466.6

88
76.2

5.9

UNIT : MM

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Installation Direction

The ARC-6205 can support a wide range of AAEON single board computers and accessory cards. Depending on the type of boards chosen, accessory cards may be attached.

Hard Drive

Remove the hard drive bracket from the chassis. Insert up to two hard drives into the bracket. Brace the hard drive to the bracket with screws inserted from the sides. Replace the new unit back into the chassis.

An additional hard drive can be placed between the power supply and the floppy disk drive bracket. Brace the hard drive with screws inserted from the bottom of the chassis. To allow for easy cable connection between board and hard drive. Make sure the hard drive cable connection pins are facing the center of the chassis.

Floppy Disk Drives (Optional CD-ROM)

Two types of floppy disk drives can be installed into the ARC-6205 chassis. One 5.25" and one 3.5" can be placed in the floppy drive bracket located in the front corner of the chassis. Remove the bracket and insert the floppy drives of your choice. Brace the floppy drives with screws inserted from the sides. Replace the new unit back into the chassis.

A standard CD-ROM drive can be used instead of the large 5.25" floppy drive.

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Power source

The power source for this industrial chassis offers a versatile AC/DC power supply option. Depending on the type of power source you have selected wattage levels may vary from 250 to 400. To install the power source simply brace the power component to the chassis by inserting 4 screws from the rear.

Backplane

The ARC-6205 has a passive backplane, model name BP205SG-P2. This backplane offers a variety of slots encluding 1 PICMG slot, 2 ISA slots and 2 PCI slots. Remove the backplane bracket prior to installation of all boards, this will make installation easier.

When installing the backplane make sure the solder side is facing outward. The mounting side with the power connector should be facing the power source. Install the SBC card and accessory cards before replacing the backplane bracket into the chassis.

SBC boards and accessory boards

Once the backplane is mounted install the SBC board and accessory boards of your choice. Remember to brace all the boards to the rear I/O slot with a single screw on the bracket.

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Cable Connections

Every cable has a special colored line designated for pin number 1 make sure these connections are carefully carried out!!!

Hard drive cable connection

Find the 40-pin and 44-pin header hard drive cable. Plug the 40-pin header and plug this end into the hard drive, and connect the 44-pin header into CPU board.

Floppy drive cable connection

Find the 34-pin header floppy drive cable. Connect one end to the floppy drive and the other to the CPU board (34 pin).

CDROM cable connection

Find the 40-pin header CDROM cable. Connect one end to the CD-ROM drive and the other end to the CPU board (40-pin).

Chassis Internal Cables

Power led cable, reset cable, internal PS/2 cable, COM cable, serial cable, printer port cable, ethernet, reset button cable, MIC in cable, line in/out cable all these cables have their specific locations refer to the SBC manual to find their specific pin position.

Quick Installation Guide

OZONE SAFE

RECYCLABLE