

ARC- 6414

4 U 14-Slot Industrial Rackmount Chassis

Notice:

This guide is designed for experienced users to setup the system within the shortest time. For detailed information, please always 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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Power connection

The ARC-6414 is equipped with two 400 W ATX modular power supplies. These two power sources are hot-swappable and can act as back-up to each other. In case one power source fails the other will power up automatically, never allowing the chassis to power down. This redundant design gives the end user confidence and reliability with our industrial chassis.

The power source has two different voltage settings, 115V and 230V. Please select the correct voltage prior to use.

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Features

- Supports ATX, AT, and Baby AT Motherboards
- Shock resistant disk drive bay holds three 5.25" and one 3.5" disk drive in front.
- Supports 14-slot ISA/PICMG backplanes
- Single ball bearing cooling fans for optimum system cooling. (2 x 12 cm, 108 CFM/each) A second fan is optional.
- Can be equipped with a 400 W ATX power supply or hot-swappable redundant 400 W ATX power supply to increase system reliability.
- Thermal management card (optional).
- 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 ARC 6414 Industrial Rackmount Chassis
- 1 Quick Installation Guide

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

FCC STATEMENT

This device 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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Notice

Dear Customer,

Thank you for purchasing the ARC 6414 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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ARC-6414 Components Diagram



Thermal Management Card

Hold Down Bar

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Installation Direction

The ARC 6414 chassis can support up to 14 single board cards. The number of SBC and accessory cards that may be installed is determined by the type of backplane pre-installed. Currently, AAeon offers five types of passive backplanes for the ARC 6414 chassis.

Hard Drive and Floppy Drive

To install the hard drive and floppy drive, first remove the hard drive shock resistance compartment. Secure the hard drives and floppy drives with screws from the sides. Replace the whole component back into the chassis. Make sure to attach the grounding wire to the chassis.

Backplane

Remove the hold down bar from the chassis. Simply place the backplane into the chassis. Make sure the backplane is sitting in the correct direction. Brace the backplane into the chassis with screws.

Single Board Computer Boards and Accessory Boards

First choose the preferred location for the SBC or accessory cards on your backplane. Then remove the bracket in the rear (silver) so the I/O panel can be accessible. Simply, line up the SBC and push the board down into the backplane. After installing all boards, lower the hold down bar to secure the SBC cards.

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Cable Connection

The power source in the ARC-6414 provides an assortment of power cables. The AT power source is to be plugged into the backplane. The remaining power supply standard AT 4-pin connectors are designated for the built-in fan, hard drives, etc.

Speaker cable, power led cable, reset cable, internal P/S 2 cable all have their specific locations refer to the CPU or accessory manual to find their specific pin position.

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