

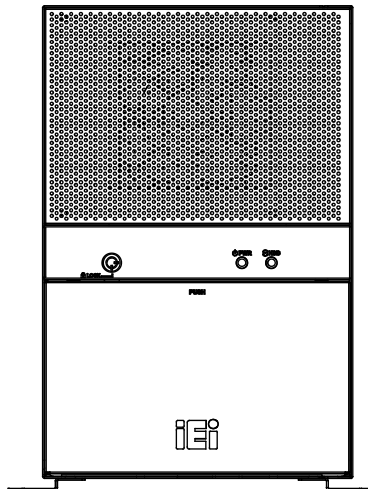


ECA-300

Industrial Chassis for ATX/microATX SBC

Quick Installation Guide

Version 1.00



PACKING LIST

- 1 x ECA-300 chassis
- 2 x Wall mount brackets

SAFETY INSTRUCTIONS

Warning! Read this installation guide before connecting the system to the power source.

Warning! To prevent the device from overheating, do not operate it in an area that exceeds the maximum operating temperature described in the user manual came with the SBC.

Warning! Ultimate disposal of this product should be handled according to all national laws and regulations.

SPECIFICATIONS

Construction	Heavy duty metal
SBC Form Factor	ATX/microATX
PSU	PS/2 ATX power supply
Drive Bays	2 x 5.25" 1 x 3.5"/2.5" HDD/SSD
Cooling Fans	1
I/O Openings	2 x USB 4 x USB 2 x COM
Expansion Slots	7
Indicators	1 x Power LED, 1 x HDD LED
Buttons	1 x Reset button, 1 x Power switch
Installation	Desktop, wall mount
Operating Temperature	-10°C ~ 50°C
Operation Humidity	5% ~ 95%
Color	Silver
Dimensions (DxWxH)	210 mm x 320 mm x 480.5 mm
Operating Vibration	MIL-STD-810F 514.5C-1
Operating Shock	Half-sine wave 3G, 11ms, 100 shocks per axis
Weight (Net/Gross)	TBD

COMPATIBLE SBC

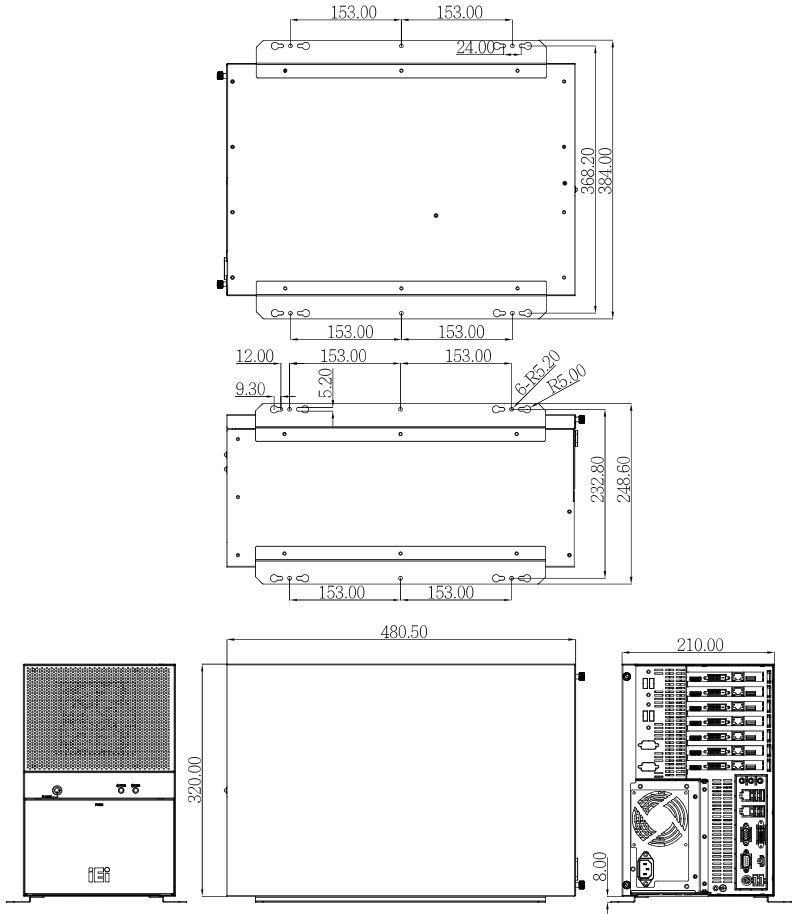
Model No.	SBC Type	PCI	PCIe			
			x1	x4	x8	x16
IMBA-Q170-i2-R10	ATX	2	0	3	2	0
IMBA-H110-R10	ATX	6	0	0	0	1
IMBA-H810-R10	ATX	4	2	0	0	1
IMBA-Q870-i2-R10	ATX	4	1	1	0	1
IMB-Q870-i2-R10	microATX	1	1	1	0	1
IMB-Q770-R10	microATX	1	1	1	0	1
IMB-H810-i2-R10	microATX	2	1	0	0	1
IMB-H610A-R10	microATX	0	3	0	0	1

POWER SUPPLY OPTIONS

Type	Model No.	Watt
ATX	ACE-A160A-R11	600W
	ACE-4840APM-RS	400W
	ACE-A140A-R11	400W
	ACE-A130B-R10	300W

DIMENSION DRAWING

The dimensions of ECA-200 are shown below (Unit: mm).



INSTALLATION STEPS

To install the ECA-300 chassis, follow the steps below:

Step 1: Remove chassis cover.

Step 2: Install motherboard.

Step 3: Install power supply unit.

Step 4: Install hard disk drive.

Step 5: Install floppy disk drive.

Step 6: Install wall mount brackets.

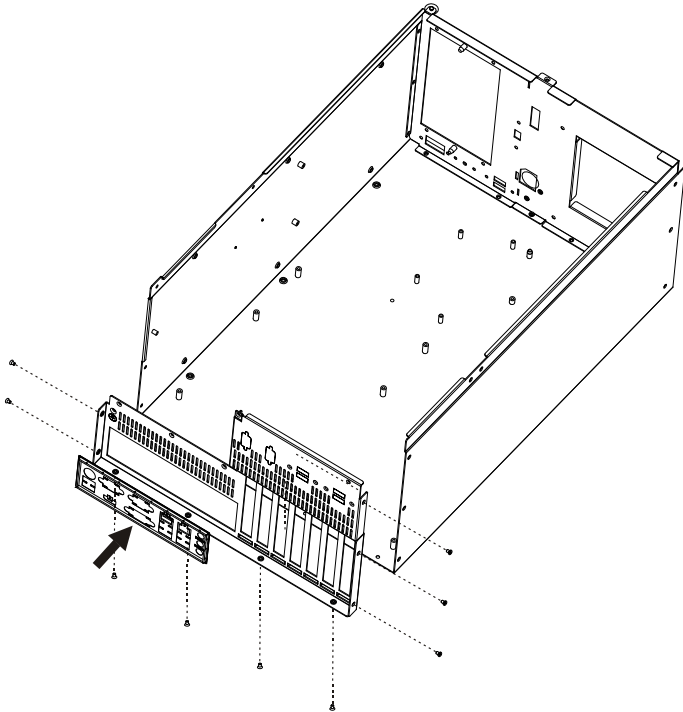
The installation steps outlined above are described in detail below. Please refer to the relevant section.

REMOVE CHASSIS COVER

Step 1: Remove the top cover. Loosen the two thumbscrews on the top panel, slide the cover outward, and then lift the cover up gently.

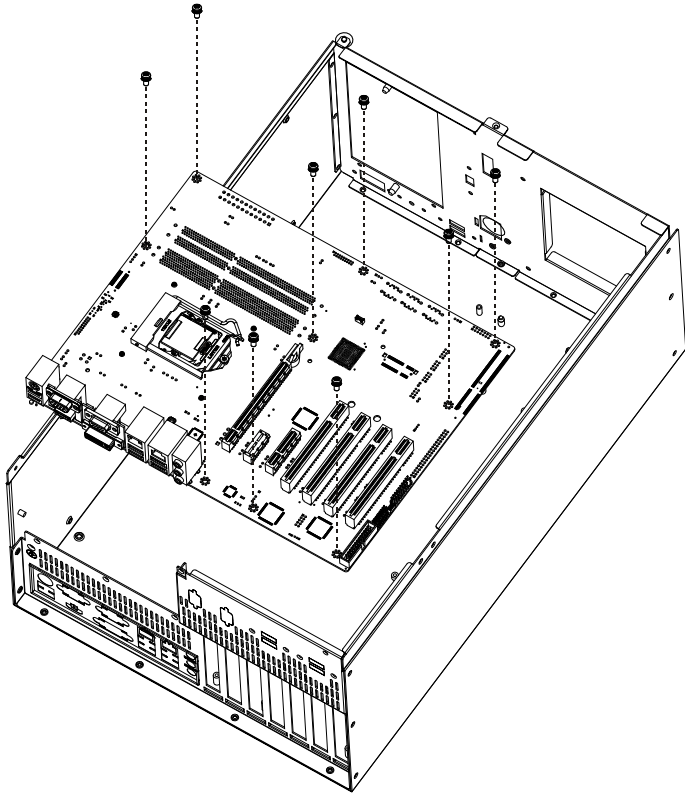
Step 2: Remove the front panel. Remove nine screws from the front panel, two on left panel, three on right panel and four on bottom panel.

Step 3: Install the I.O shielding. Push the I.O shielding in the chassis.



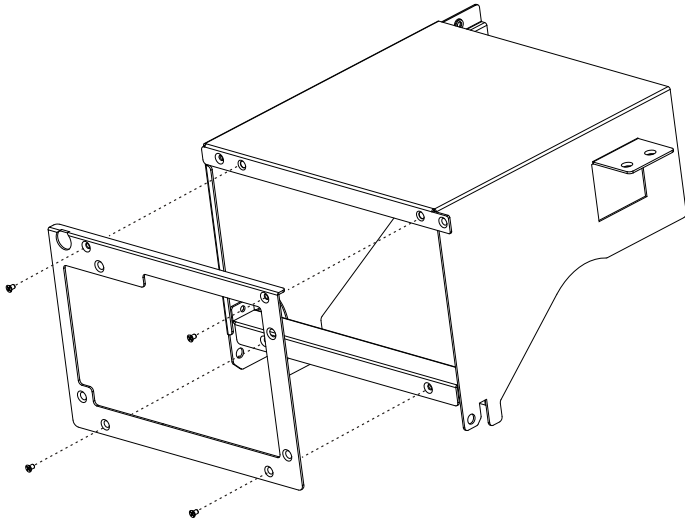
MOTHERBOARD INSTALLATION

Step 1: Install the motherboard. Align the screw holes on the motherboard with the standoffs on the bottom panel. Secure the motherboard with the screws as figure shown below.

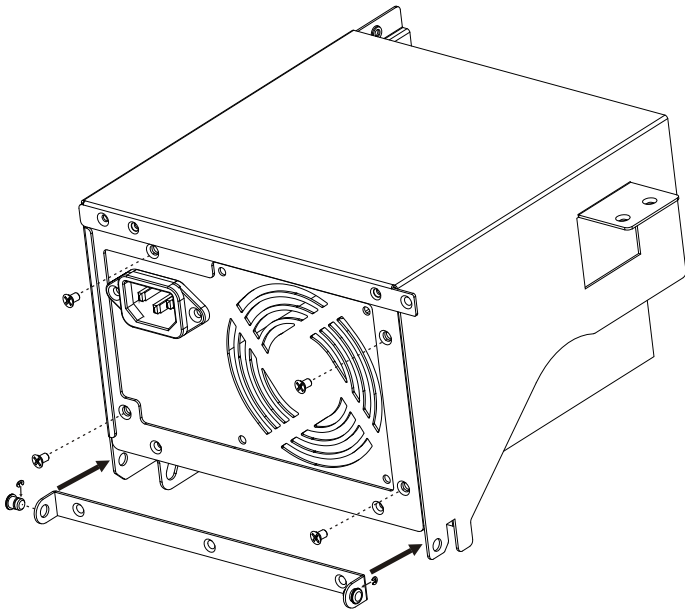


POWER SUPPLY UNIT INSTALLATION

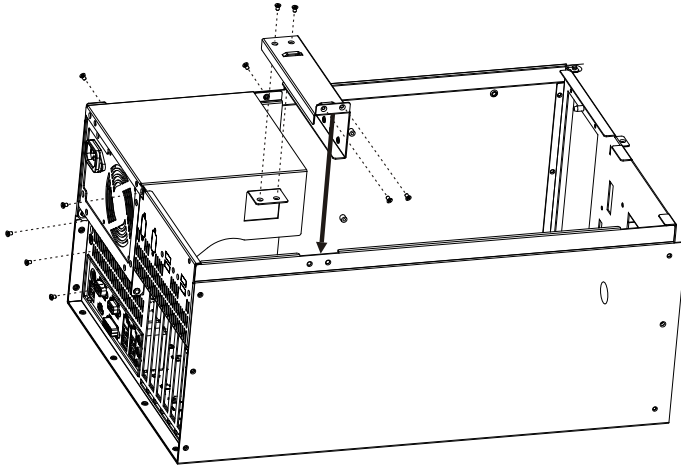
Step 1: Secure the PSU bracket. Secure the PSU bracket with the screws as figure shown below.



Step 2: Install the PSU to the PSU bracket. To install the PSU to the PSU bracket, secure the PSU with the screws as figure shown below. Make sure the power socket and the PSU fan face the rear of the chassis.



Step 3: Secure the PSU bracket to the chassis. Secure the PSU bracket to the chassis with the screws as figure shown below.



HARD DISK DRIVE INSTALLATION

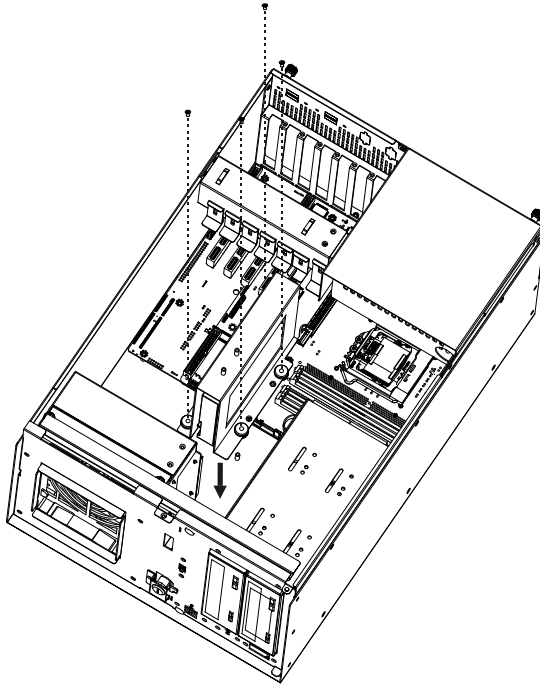
Step 1: Remove the internal HDD bracket. Remove the internal HDD bracket by removing the retention screws that attach the bracket to the chassis base.

Step 2: Install the HDD in the bracket. Install the HDD in the bracket and secure the retention screws.

Step 3: Reinstall the HDD bracket. Once the HDD is secured, the HDD bracket can be reinstalled. Remount the HDD bracket and reinsert the previously removed retention screws as shown in the figure below.

NOTE:

The SATA cable from the installed HDD must be connected to the SATA connector and SATA power connector on the motherboard before installing the top panel to the chassis. To correctly connect these cables, please refer to the user manual that came with the motherboard.

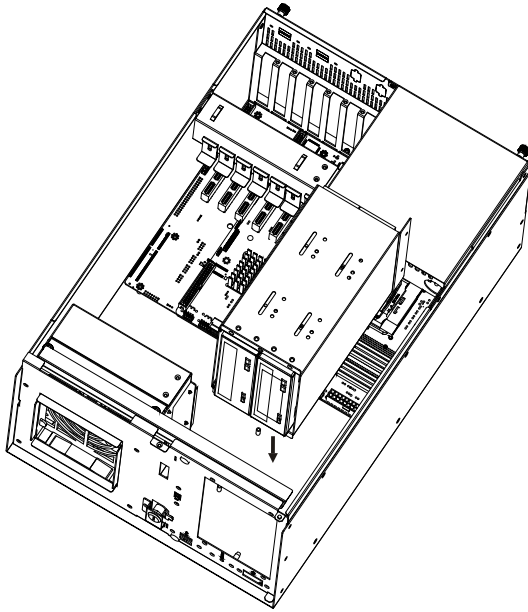


FLOPPY DISK DRIVE INSTALLATION

Step 1: Remove the internal FDD bracket. Remove the internal FDD bracket by removing the retention screws that attach the bracket to the chassis base.

Step 2: Install the FDD in the bracket. Install the FDD in the bracket and secure the retention screws.

Step 3: Reinstall the FDD bracket. Once the FDD is secured, the FDD bracket can be reinstalled. Remount the FDD bracket and reinsert the previously removed retention screws as shown in the figure below.



FRONT PANEL CABLE CONNECTION

The following buttons and LEDs are on the front panel of the ECA-300 chassis.

- 1 x Power switch
- 1 x Reset button
- 1 x HDD LED
- 1 x Power LED

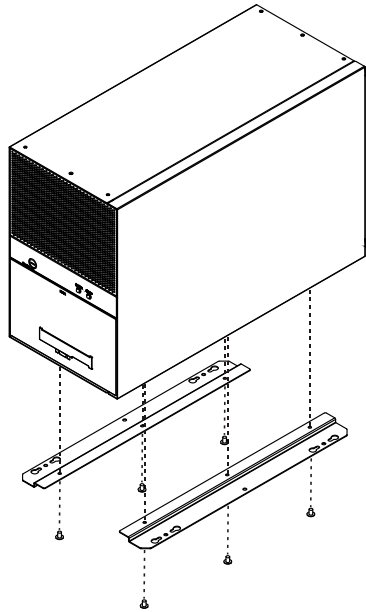
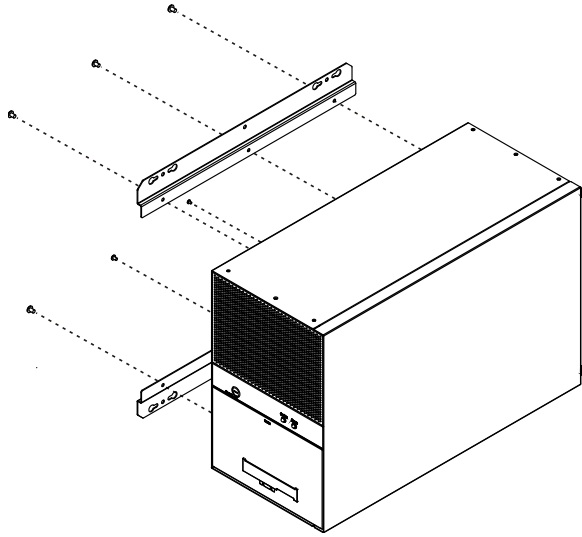
These components are all connected to the motherboard with cables. To correctly connect these cables, please refer to the user manual that came with the motherboard.

WALL MOUNT BRACKETS INSTALLATION

Step 1: Install the wall mount brackets. Align the four retention screw holes in the wall-mount brackets with the retention screw holes on the side of the chassis.

NOTE:

There are two methods of mounting the ECA-300. The mounting methods are shown below.



IEI SUPPORT URL

https://new.ieiworld.com/en/online_support_form/index.php

COMPLIANCE



This equipment has been tested and found to comply with specifications for CE marking. If the user modifies and/or installs other devices in the equipment, the CE conformity declaration may no longer apply.



This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

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.



According to the requirement of the WEEE legislation the following user information is provided to customers for all branded IEI Electronics products subject to the WEEE directive.

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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