

**RACK-360 CHASSIS
USER'S MANUAL
Ver 1.x**

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Chapter 1 Product Information

1.1 General Information

Rack-360 is a PC/AT compatible computer designed for Industrial applications. It is a steel rugged chassis specially designed to work under harsh environment for high reliability application. The Rack-360 features 14 slots Passive Backplanes and high reliability Input Power Supply. Specially equipped with Keyboard Port on front and rear side for easy access.

Rack-360 will withstand shock, vibration, dust and wide range of temperature in Industrial environments. A lockable door protects drives and switches from unauthorized misuse and particle. One cooling fan in the front for optimum cooling system.

1.2 Product Specifications

General specification

- Construction : Heavy-duty steel
- Disk Driver : Two 5.25" drive and three 3.5" drive spaces
- Cooling Fan : 12 cm Ball bearing fan
- Indicator : Three LEDs to monitor the status of HDD, Power Supply and keyboard lock
- Dimension : 481mm(W)x 177mm(H)x 453mm(D)

Passive Backplanes (Optional)

Features 14 slots backplanes with the options: PCI-14S, PCI-14S2, PCI-14S3, BP-14S, BP-14SD, BP-14S2, PX-14S, PX-14S2, and IP-14S.

Power Supply

The standard power supply for the Rack-360 is ACE-925A .

Working Environment

- Operating Temperature : 0~50°C
- Relative Humidity : 5~95% Relative
- Vibration : 5-17Hz, 0.1" double amplitude displacement
17-640Hz, 1.5G acceleration peak to peak
- Shock : 10G acceleration peak to peak
- EMI : Meets CE, FCC

Cooling Fan

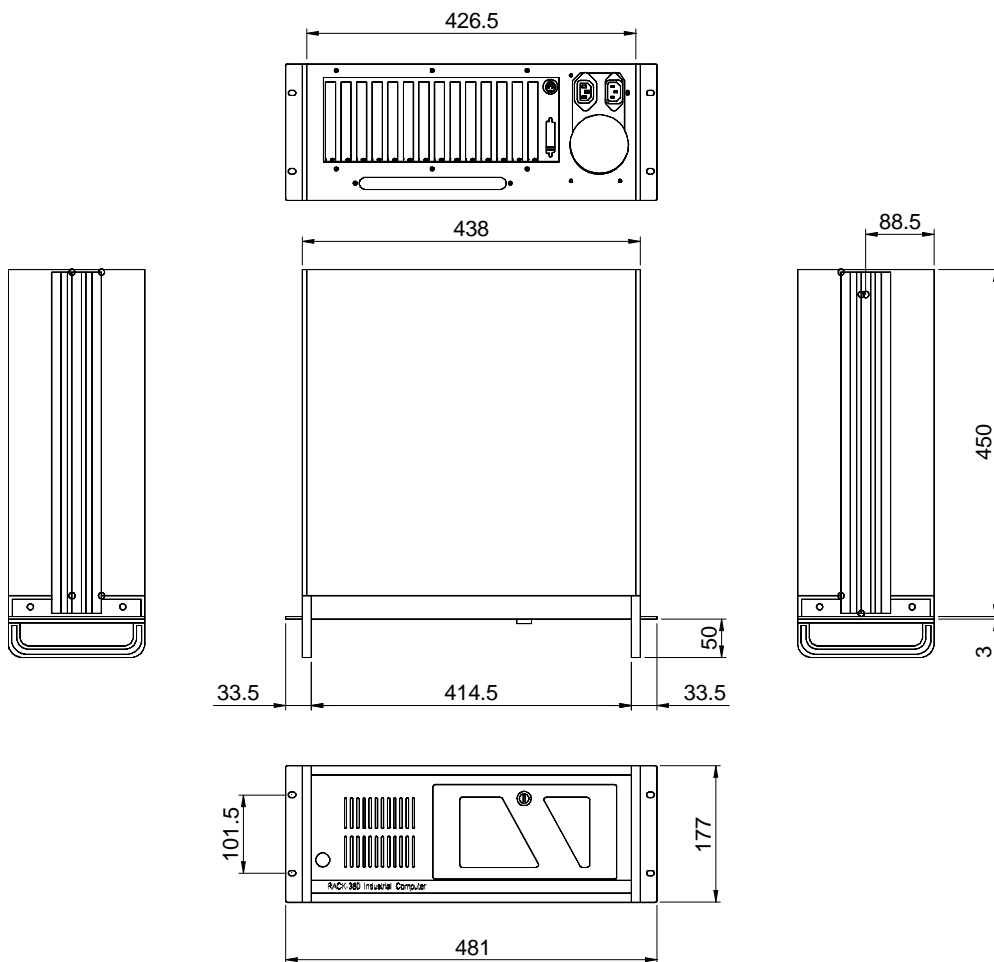
One 12 cm Front Ball Bearing Cooling Fan

Drive Capacity

Two 5.25" drive and three 3.5" drive spaces

1.3 Dimensions

The dimensions of Rack-360: 481mm(W)x 177mm(H)x 453mm(D)



Chapter 2 Installation Procedure

The following set up procedures are provided to assist you in installing the system unit, please follow the steps below:

2.1 The Front Panel of Rack-360

Two 5.25" and three 3.5" drive spaces are accessible as open the lockable front door. Also, the front panel of Rack-360 provides three switches for Reset, Power on, and Keyboard lock; and three LEDs to show the status of Power, HDD, and Keyboard lock.

2.2 Removing the chassis cover

The cover is mounted by four screws at each side of the chassis. Please remove the screws first and then slide the cover to the rear of the chassis.

2.3 Disk Drives installation

To install the disk drives, please follow the below steps:

1. Open the front lockable door in the front panel.
2. Remove the disk drive bay.
3. Attach the FDD to the bracket with screws and connect FDD cable & power cable to the FDD.
4. Attach the HDD/CD-ROM to the bracket with screws and connect a 40-pin flat cable & power cable to the HDD/CD-ROM.

2.4 The Card Clamp Installation

The card clamp is designed to hold the add-on cards to fix securely into the ISA/PCI slots, thus preventing them from vibrating. You may install the Card Clamp after inserting all the add-on cards in the backplane by following the steps below: Place the Card Clamp into the chassis side with the 2 fixed screws on the chassis. Screw the other side from the side of the chassis.

1. If the add-on card is too short, use the holding clamp to hold the card and fix the holding clamp by screws.
2. When you are finished, put the screw on the other side of the Card Clamp and fasten them.

2.5 Replacing the Filter

The filter of the Rack-360 is located at the front end of the chassis. The filter should be removed and cleaned at least once a month to achieve optimum performance. The filter can be removed simply by opening the front lockable door and pulling out the filter bracket.

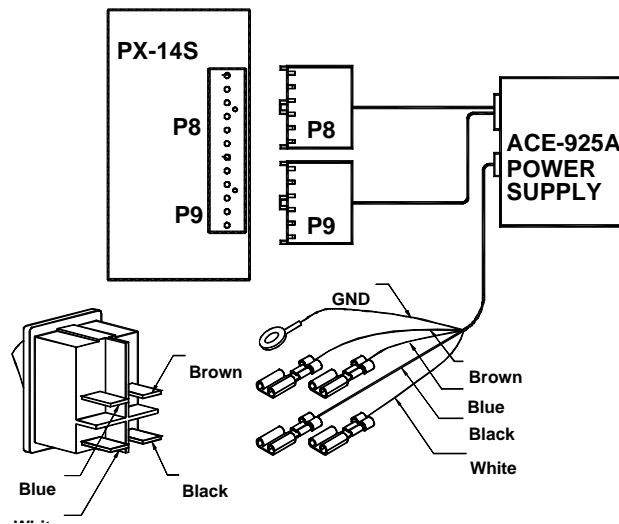
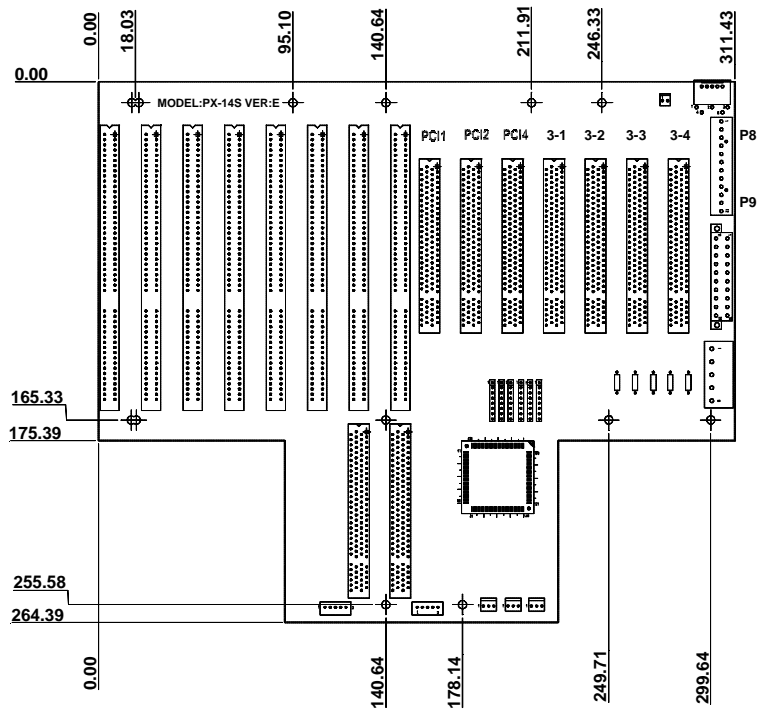
2.6 The Power Supply Installation

The standard power supply provided in the chassis is ACE-925A. It is placed in the rear of the chassis with screws fastening it from outside.

ACE-925A Input /Output Spec. at 40°C

Power supply	Input Voltage	Peak Current		Max. Outputs Current				MTBF (HRs)
		+5V	+12V	+5V	+12V	-12V	-5V	
ACE-925A	85-265VAC	24A	10A	22A	7A	0.5A	0.7A	204,100

APPENDIX A PASSIVE BACKPLANES



Optional Backplane: PCI-14S, PCI-14S2, PCI-14S3, BP-14S, BP-14SD, BP-14S2, PX-14S, PX-14S2, and IP-14S