

IPC-8462

**19"4U All-in-one Workstation
with Pull-out Keyboard**

Version: A0

The List of Items

Your IPC-8462 should include the items listed below. If there's any damage or loss, please contact your distributor.

- ☒ One IPC-8462 workstation
- ☒ One *User's Guide*
- ☒ One box of accessories

Note: Some accessories along with the IPC-8462 may not be listed above. Please refer to actual packing list or customer's requirements.

Announcement

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Safety Instructions

1. Please read the *User Manual* carefully before using your IPC-8462.
2. Before inserting, removing or re-configuring motherboard or expansion card, first disconnect the computer and peripherals from their power sources;
3. Before removing boards or computer, first turn off all power resources and disconnect the power cord from power source;
4. For whole set, when inserting or removing boards, first disconnect the computer and peripherals from their power sources;
5. Before you connect or unplug any signal cable, make sure all power cords are unplugged in advance;
6. To avoid power on/off computer frequently, wait at least 30 seconds after turning off the computer before re-turning on the computer.
7. Static electricity can harm system boards. Perform service at an ESD workstation and follow proper ESD procedure to reduce the risk of damage to components;
8. If there's no ESD workstation, You can take the following steps to prevent damage from electrostatic discharge (ESD):
 - a) Wear a grounded wrist strap against your skin to eliminate static on your body;

- b) Always touch the metal chassis or frame before you touch any components in the chassis;
 - c) Keep part of your body in contact with the metal chassis to dissipate the static charge while handling components;
 - d) Avoid all unnecessary movement;
 - e) Handle components and boards with care. Don't touch the components or contacts on a board. Hold a board by its edges or by its metal mounting bracket;
 - f) Place the components on a grounded, static-free surface. Use a conductive foam pad if available but not the component wrapper. Use a conductive foam pad if available but not the component wrapper;
 - g) Do not let the components slide on the operating platform.
9. Use cross head screwdriver to operate. A magnetic screwdriver is recommended (magnet to collect screws). Do not leave any tools or screws inside the chassis; Do not leave any tools or screws inside the chassis;
10. Assure abundant cooling and streamline ventilation.

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Chapter 1 Product Description

Overview

IPC-8462 is a 4U 19" embedded all-in-one workstation, with LCD, chassis and keyboard all-in-one. The workstation is configured with 6.5" TFT LCD, inside 14-slot embedded industrial grade backplane, the driver bracket contains two 5.25" CD-ROM bays, one 3.5" FDD bay and one 3.5" HDD bay, PS/2 power supply, it has pull-out keyboard configured at the bottom and two front-side USB ports, F1~F8 programmable function keys, brightness and contrast of LCD adjustable, standby power-saving mode.

The chassis is constructed of high quality heavy-duty steel, featuring reasonable structure and stylish appearance. It can be rackmounted in 19" industrial cabinet. Integrated IPC system, low cost and space saving, all of these features provide a good solution for KVM user's low-cost IPC server.

IPC-8462 is a high performance-low cost 4U 19" embedded all-in-one workstation and can be widely applied to many fields, such as electric power, electric network, transportation, industrial automation, manufacturing, climate monitor etc.

Ordering Information

Model	Description
IPC-8462	19"4U All-in-one Workstation with Pull-out

Specifications

- Dimensions: 19" rackmounted, 4U height 483mm(W) x 501mm(D) x 177mm(H)

- Operating Temperature: 0°C~50°C
- Storage Temperature: -40°C~60°C
- Relative Humidity: 5%~90%, 40°C non-condensing

Configuration

- Chassis: IPC-8462 19" 4U rackmount chassis
- Backplane: 14-slot industrial grade backplane
- Power Supply: 250W industrial ATX power supply
- LCD: 6.5" TFT LCD (VGA port)
- Keyboard/mouse: pull-out keyboard with mouse

LCD

IPC-8462 4U 19" all-in-one workstation adopts colorful 6.5" TFT LCD. Its display port is independent module of VGA port, resolution 640x 480, display controlling integrates adjust of brightness, contrast, etc. standby power-saving mode and can be independently removed without disassembling the whole set.

Keyboard/mouse

IPC-8462 4U 19" all-in-one workstation adopts pull-out keyboard with mouse. The pull-out slide is installed at the bottom of the chassis. Common keyboard and mouse configured F1~F8 programmable function keys.

Backplane

IPC-8462 all-in-one workstation is fully compatible with 14-slot industrial grade backplane with stable performance and strong expansion.

Power Supply

IPC-8462 all-in-one workstation adopts 250W industrial ATX power supply with the dimension of standard PS/2: 150 x 140 x 86mm, with double ball-bearing temperature-controlled low noise fan, PFC function, environmental protection, effective and power saving, over-current, over-voltage, overloading and short protection, which can be used in bad environment.

- Input voltage: 175~264VAC
- Input frequency: 47~63Hz

The power supply is capable of protecting against overloading and over-voltage and features low leakage current and stable performance. The performances of conduction, radiation, harmonics current, surge and security conform to the national and international standards (GB4943, GB9254, GB/T17618, and GB17625.1) and conform to China Compulsory Certification (CCC).

Ventilation and Heat Dispersion

IPC-8462 all-in-one workstation has two 92x 20 air intake high-speed double ball-bearing temperature-controlled low noise fans and two 60x 25 air outlet high-speed double ball-bearing temperature-controlled low noise fans, there are enough blowholes on the backside of the chassis, after the workstation is started normally, the strong wind will bring the heat out via the blowholes, which can provide good performance of heat dispersion.

Besides, there are double ball-bearing high-speed drawing fan which can draw the heat inside the power supply and chassis out to gain good heat dispersion effect.

Environmental Requirements

- Climate adaptability compliant with 4.8.1 Class2 GB/T9813.
- Mechanical adaptability including vibration adaptability shock adaptability and hit adaptability compliant with 4.8.2 Class2 GB/T9813.

EMC

- Limits of radio disturbance is compliant with GB9254-1998 class A
- Immunity to disturbance is compliant with the limits of GB/T 17618-1998

Reliability

- MTBF $\geq$ 5000h
- MTTR $\leq$ 0.5h

Safety

- GB4943 Compliant

Requirements of Transportation and Storage

- **Transportation**

Well-packaged products suit for transportation by truck, ship, and plane. During transportation, products should not be put in open cabin or carriage. When transshipping en route, products should not be stored in the open without protection from the atmospheric conditions. Products

should not be transported together with inflammable, explosive and corrosive substances and are not allowed to be exposed to rain, snow and liquid substances and mechanical force.

● **Storage:**

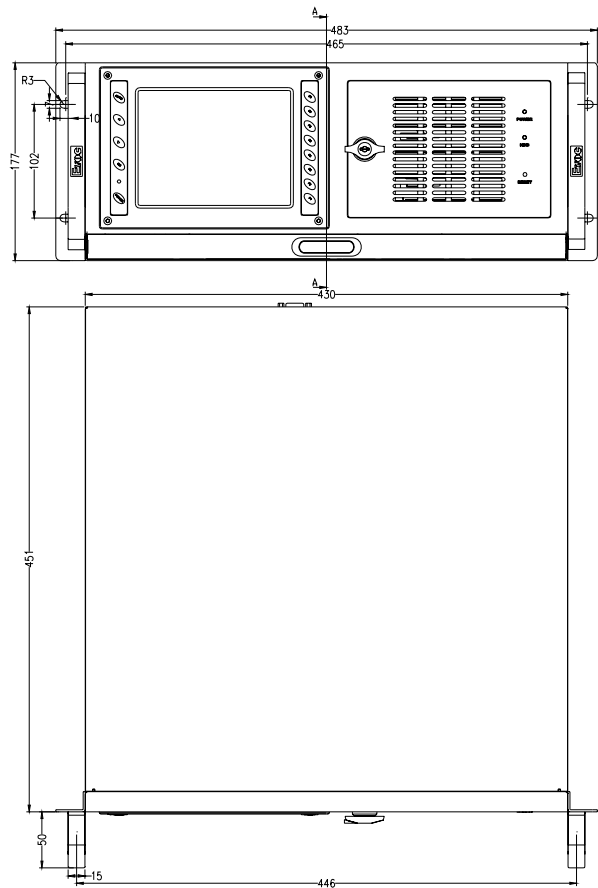
Products should be stored in package box when it is not used. And warehouse temperature should be 0° C~40° C, and relative humidity is 20%~85%. In the warehouse, there should not be harmful gas, inflammable, explosive products, and corrosive chemical products, and strong mechanical vibration, shock and strong magnetic field affection. The package box should be over ground at least 10cm height, and 50cm away from wall, thermal source, and vent.

Troubleshooting

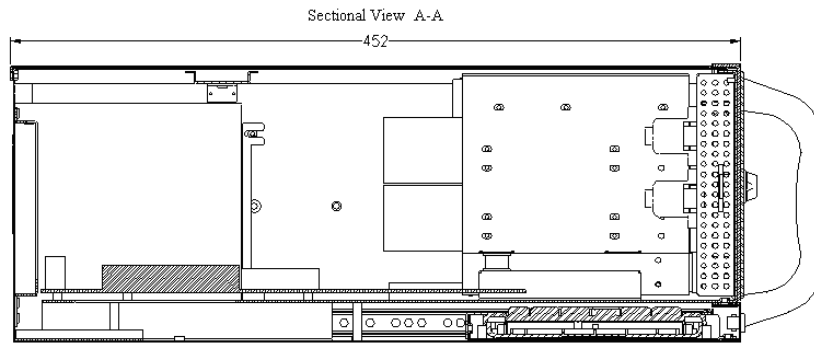
Please refer to *Common Trouble Analysis and Treatment of Industrial Control Computer* for a detailed description of the troubleshooting.

Chapter 2 Installation

Dimensions

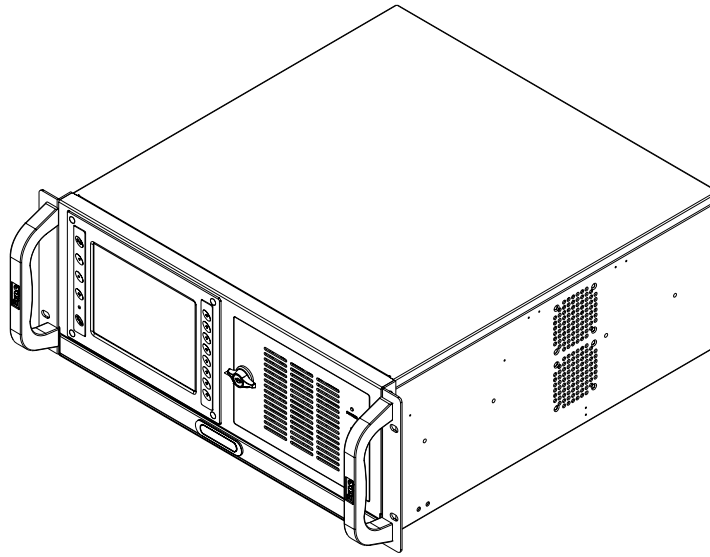


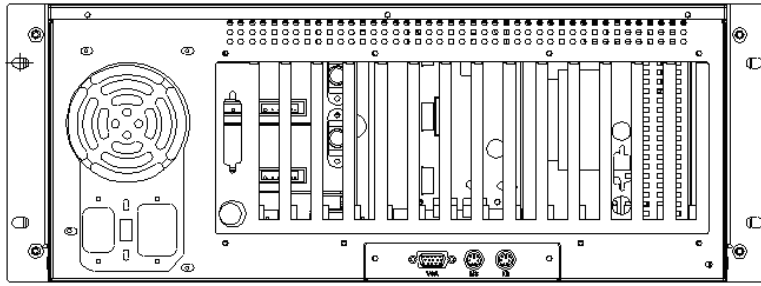
Unit: mm



Unit: mm

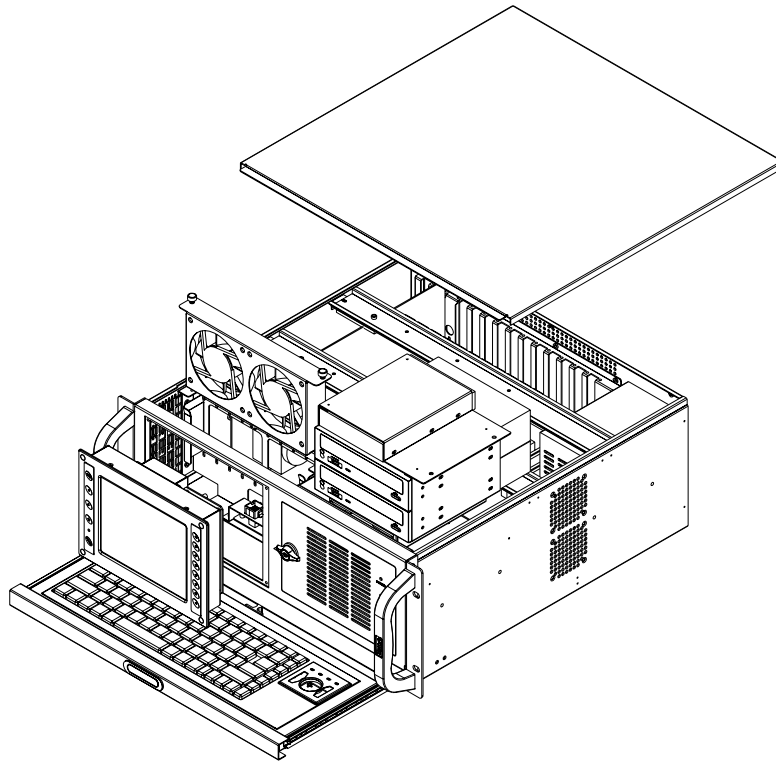
Outline



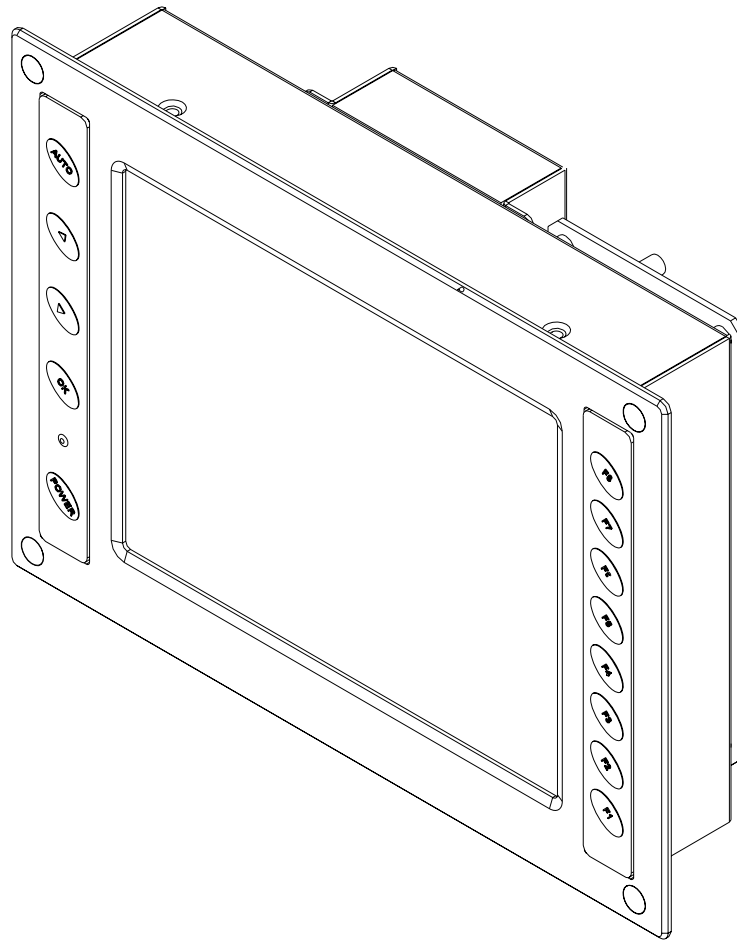


Back View

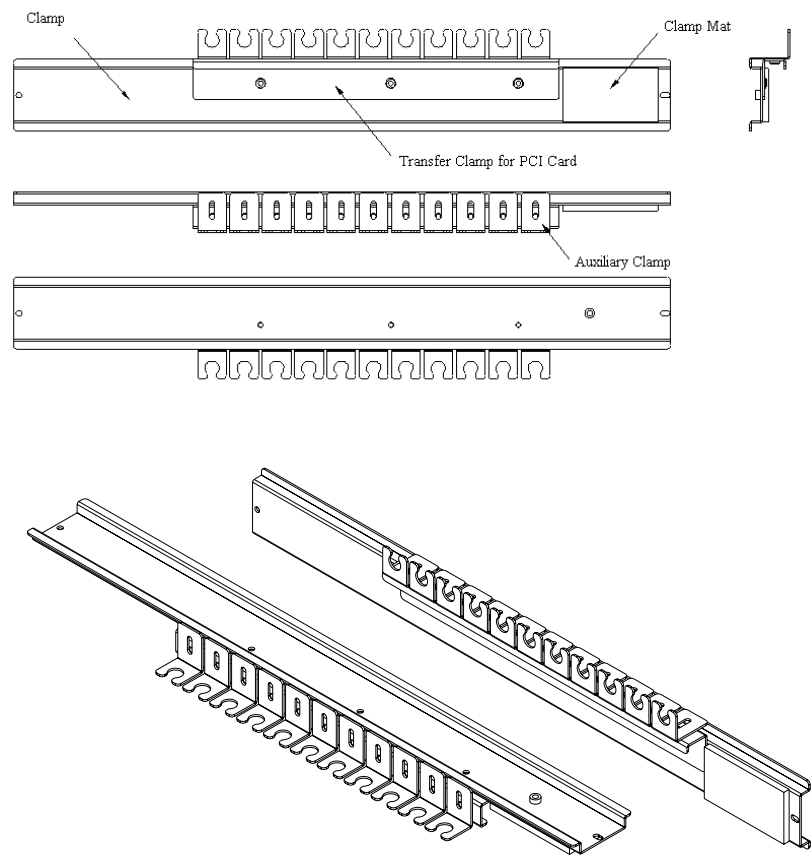
Exploded View



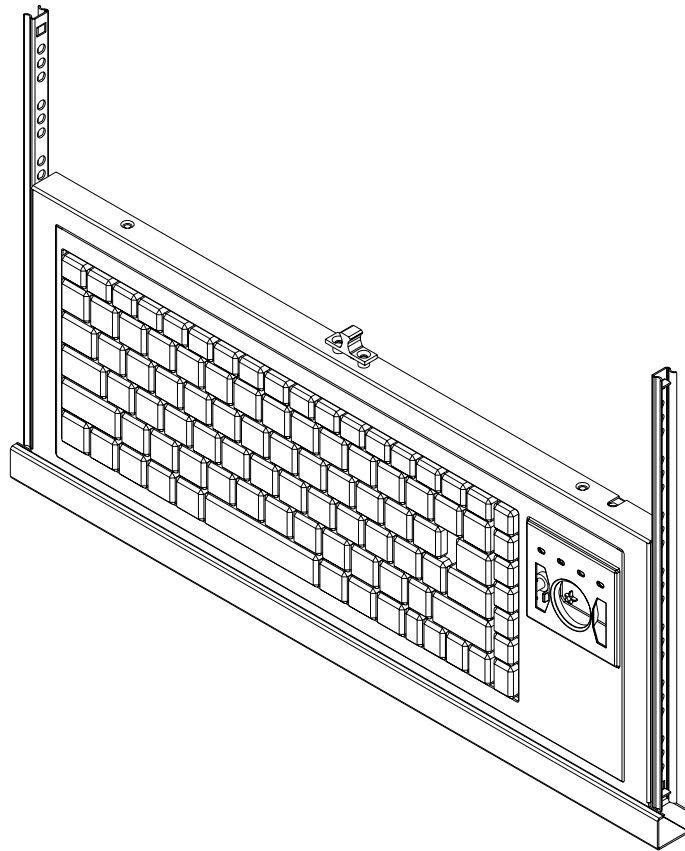
LCD Outline



Clamp Assembly Diagram



Keyboard Outline



Chapter 3 Installation of Drivers

Regarding the installation of the driver program of the product, please refer to the manual of associated motherboard.

For detailed information, please call 0755-82970999, or visit our website:
www.evoc.com