

AIPC-120 User's Manual

Easy Installation

1. Please make sure that the voltage is switched to the right degree (115V or 230V) before you turn on power supply.
2. Connect two power cords to the redundant power sets correctly.
3. Please set both powers to ON because setting one power OFF will lead the redundant power to detect one power failed and then start alarm.
4. Please make sure that three LED cords and one Reset cord are connected to the controller board; then the system can detect which power unit is failed.
5. Turn on the first white power switch to start the redundant power supply.
6. Please inspect the cooling fans and ensure each one is working.
7. Set up the required backplanes and CPU card, and finish the installation.

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I. General Introduction

AIPC-120 provides unique “Fan Detect” and “Power Detect” functions to help users find system failures early and prevent system from severe damages. This Fan Detect system can detect up to 12 DC fans including cooling fans, CPU coolers, power supply coolers, and so on. In addition, the AIPC-120 provides the power detect system to detect two redundant power sets and uses alarm to warn users to fix the failed power set.

II. How to use power detect system

1. Please make sure the voltage is switched to correct degree (115V or 230V) before you start the system. Both power switches should be turned on, or the power alarm will start buzzing. However, if one power set fails, you can hit the “Reset” on the right corner of the front controller board to stop alarm and shut down the failed power set.
2. Please turn on the upper white “Power Switch” on the front controller board to ON after you turn on the redundant power. If both power sets are normal, you will find three green LEDs on the right corner are lighted. If the left (or right) power set fails, the alarm starts buzzing, the middle green light flashes, and then the left (or right) green LED will be off. You can hit the upper black “Reset Switch” to stop alarm buzzing and keep the other power set working. You may turn off one power supply to emulate this situation and test whether this power detect system is working success fully or not.

III. How to use fan detect system

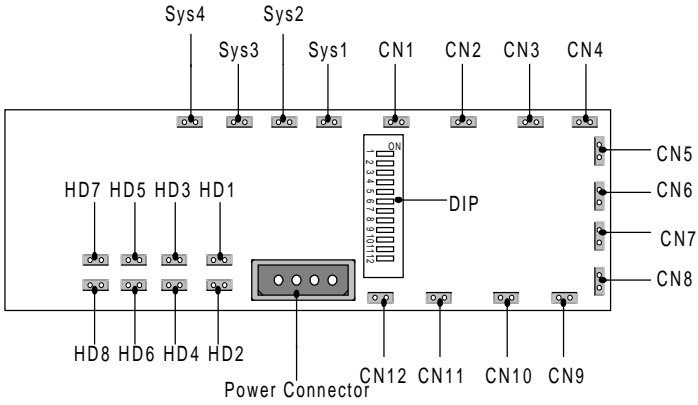
There are 12 fan LEDs on the front of AIPC-120. Open the chassis, you can find five 2-pin cables already connected to the CN1, CN2, CN3, CN4, and CN5 on the controller board. The switch from 1 to 5 on the DIP board are automatically set to “ON”, and others are “OFF”, since this chassis provides standard five cooling fans. Therefore, additional fans need to be connected from CN6 to CN12, and the relative DIP should be switched to “ON”, since the Fan Detect System will read the current data of Dip Switch and provide power for all normal fans to operate. However, if the relative DIP Switch is turned “ON” but the fan cable is not connected successfully, the alarm will start buzzing and users will be warned for the fan failure.

When one fan fails, you can find the relative fan LED is on and the alarm starts buzzing. Please hit “ Fan Reset” on the front of chassis to shut down the power of this failed fan and then stop alarm buzzing. After you fix your fan problems or add/ decrease your fan system, you can reboot your system again, and the Fan Detect System will contain the new fan setup status.

IV. Others

There are eight red LEDs on the front board to show whether the HDD is working successfully after you connect 2-pin cable on the controller board. The four upper green LEDs are reserved for special four independent CPU systems to connect and thus, a special back-plane is required.

Back Control Board



Front Control Panel

