

# 1. Introduction

## 1.1. Product Overview

All of the cooling fans on the PC market are design to high RPM mode to provide the best cooling effect, but the higher RPM also generate undesirable noise. The cooling gear connects up to 2 fans and allows you manually adjust the fan speed and noise level ,and the LCD display allow you to monitor the system temperature. The fan speed is determined by the variable speed potentiometer setting which the voltage of the fan from 4V-12V. Each channel will support up to 10 watts. This high performance fan cooling gear provides you to adjust your fans to minimize the noise while providing sufficient cooling.

## 1.2. Features & Specifications

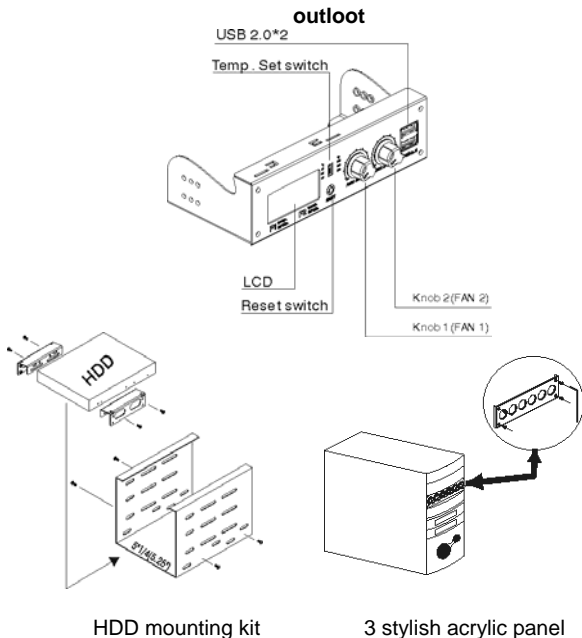
### 1.2.1. Features

- Aluminum design, suitable for 5.25" bay.
- Fan RPM and temperature monitor display.
- Overheat alarm function.
- 2 fan adjustable function.
- Input  $12V \pm 10\%$ , output  $4-12V \pm 10\%$ , (max output 10 Watt each channel)
- Various brightness knob design, the brightness control by Knob.
- Extra function for HDD space.

### 1.2.2. Specifications

DC Input	+5V,+12V (Standard 4 pin connector)
DC Output	4V – 12V DC
LCD display	43 x 20 mm
3 pin fan connector	2
Fan RPM Knobs	2
Dimension (W x H x D)	148 x 42 x 82 mm

### 1.3 Illustrations



### 1.4 Package contents

The package should contain the following items:

Tp-03e x 1

Acrylic panel x 2

RPM signal wire for M/B x 2

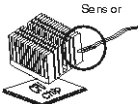
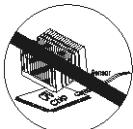
3.5" HDD mounting kit x 1

Parts bag x 1

This User's Guide

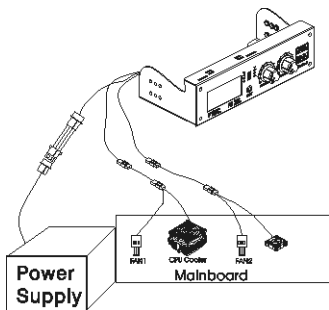
## 2. Installation

### 2.1 Precautions

1. Make sure the power is off, before the installation.
2. DO NOT short circuit the fan connector in case, it could damage this product.
3. Before install the CPU cooling fan, the power connector must connect the extra PRM signal wire for M/B.
4. Please do not place the Sensor between the CPU Die and heat sink, in case CPU damage may occur while assembling heat sink to CPU socket.  
  

5. Connect the fan of 2 pins, LCD will not display.
6. Make sure the sign "UP" of 8-pin connector must show up when front USB port connects to M/B.

### 2.2 Installation

1. Attach the 4-pin power cable and fan cable into drive connector.
2. Carefully insert the drive into carrier.
3. Fasten the drive into the carrier with screws.



## 3. Setup

Fan RPM setting:



Clockwise : increase the RPM.  
Counterclockwise : decrease the RPM.

Jp1 for Temperature unit setting:



open Centigrade



short: Fahrenheit

Jp2 for Alarm RPM setting:



Open: 1000RPM



short: 2000RPM

Alarm temperature setting: following panel instruction from switch to the location you need .

**[!]Caution: Push reset switch after setting**

## 4. Functions of LCD

1. Range of temp. monitoring:-30~90
2. Range of fan speed monitoring:1000~99000 RPM
3. Over temperature alarming:

When temperature is higher than setting value, the digits on LCD start flashing and buzzer starts beeping. As long as the cause resulting in over temperature is removed, visual and audio stops automatically stops in 30 seconds; however the digits on LCD keep flashing till the cause is completely eliminated.

4. Fan low/fan failure alarming

When fan speed is lower than than setting value, the digits on LCD start flashing and buzzer stars beeping. As long as the cause is solved, visual and audio alarm stops automatically. If the cause is left unsolved, beeping automatically stops in 30 seconds, however the digits on LCD keep flashing till the cause is completely eliminated.

5. If the fan is not under monitoring, LCD is not work and display “- -”.

## 5. Trouble Shooting

The cooling gear can be easily installed. Please follow the

troubleshooting steps

below to solve any problem you may encounter.

1. Boot up fail.(CPU fan detect fail by BIOS)

The CPU signal wire is properly unconnected to the M/B, you have to connect the extra signal wire for M/B detection.

2. LED Knobs & LCD display not lit.

Make sure the DC power connector is plugged into the power socket.

3.Sensor Overheat, buzzer always working!

We suggest that add on more cooling fan to cooling down your chassis.

**[!] Contact your dealer if problem persists.**