



## AFAN-04

1U 4 Way Cooling Fan Module

### Features

- Support 4 fan modules (hot-swap)
- Individual fault LED for each fan
- DO Relay alarm for any fan failure or power loss
- Failure of any fan does not affect others
- Overvoltage protection (5A fuse)
- Compatible with EIA RS-310-C 19" rack mounting

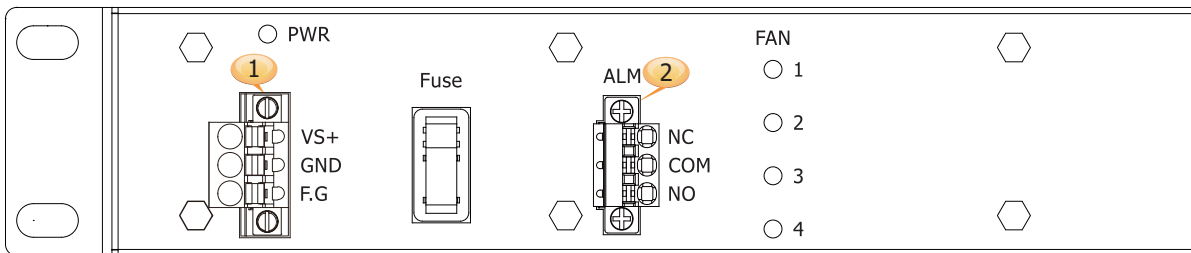


### Introduction

AFAN-04 is a 1U general-purpose fan module developed by ICP DAS. It is designed with many advantages for the thermal management of computer room or industrial equipment. The main features are included as below.

- Fan Modules:** Equipped with 4 fan modules and provides active air convection, which effectively reduces the operating temperature of the equipment and improves the stability and safety of the system.
- Power supply and protection:** 24VDC power supply with built-in 5A fuse overvoltage protection to ensure the safety of equipment operation.
- Monitoring and Alarm:** Built-in fan fault indicator and DO Relay alarm output allow users to monitor the fan operation status through the remote monitoring center's DI connector, which helps to detect and handle fan faults in time to avoid system damage due to overheating.
- Hot-swappable support:** Supports hot-swappable replacement of fan modules in case of failure without shutting down the system, which further improves system maintenance efficiency.
- Installation Compatibility:** Compatible with EIA RS-310-C standard, it can be installed in 19" racks, which is in line with the installation specification of general equipment in the server room.

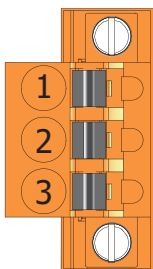
### Pin Assignments



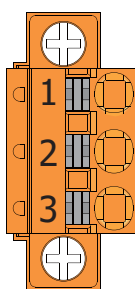
#### 1. DC Input

#### 2. Relay Output

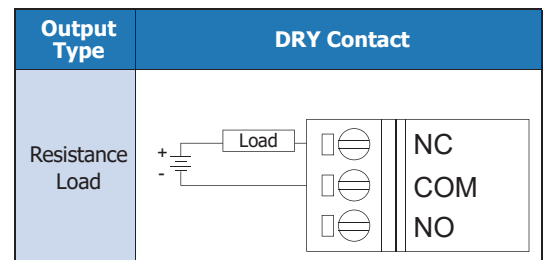
When any fan module fails, relays COM and NC will turn on.



Pin	Description
1	24 VDC±10%
2	24 V_GND
3	F.G



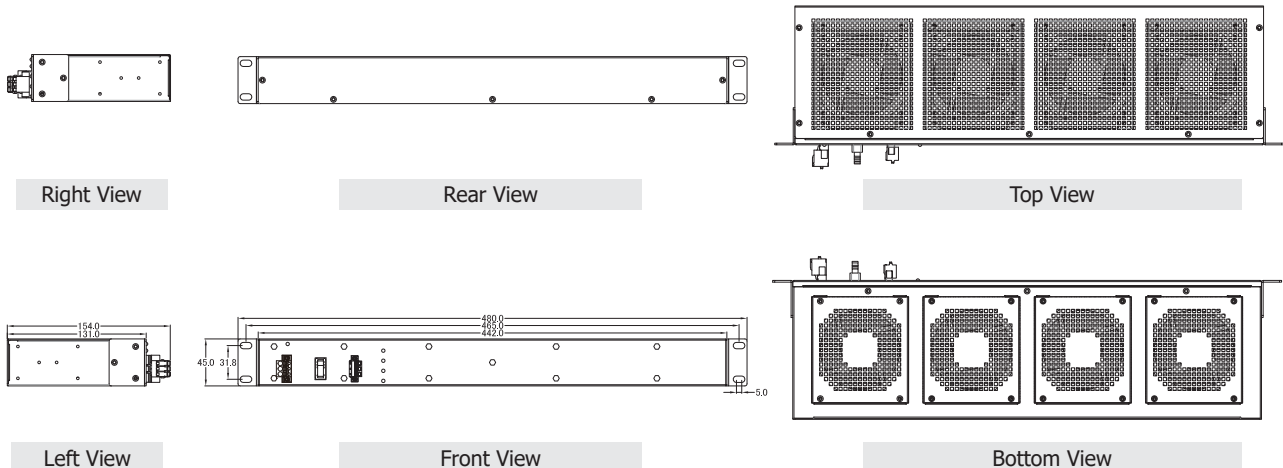
Pin	Description
1	Relay output: NC
2	Relay output: COM
3	Relay output: NO
Form C, 6A	



## Specifications

LED Indicators	
Power (Error : Light up)	1 LED as power indicator
Fan Status (Error : Light up)	4 LED as status indicator
Diagnosis	
Alarm Mechanism	Relay (6 A@30VDC), alarm when any fan failure or power loss
Relay Rating	
Contact rating (Res. load)	6A 250 VAC /30 VDC
Operate time (at nomi. volt.)	≤ 8ms
Release time (at nomi. volt.)	≤ 4ms
Electrical endurance	3 x 10 <sup>4</sup> OPS (Test Conditions : Resistive load, 85°C, 1s on, 9s off)
Mechanical endurance	1 x 10 <sup>7</sup> OPS
EMS Protection	
ESD (IEC 61000-4-2)	±4 kV Contact, ±8kV on Air
EFT (IEC 61000-4-4)	±1 kV for power line
Surge (IEC 61000-4-5)	±1 kV for power line
Power Requirements	
Rated Voltage	24 VDC±10%
Power Dissipation	7.2W (0.3A @ 24 VDC)
Connector	3-pin screw terminal
Protection	
Overvoltage Protection	5A Fuse (6.3A <sup>2</sup> •s)
Mechanical	
Dimensions (W x L x H)	480 x 131 x 45 mm
Installation	Wall on
Environment	
Operating Temperature	-10°C ~ +70°C
Storage Temperature	-30°C ~ +80°C
Humidity	10 to 90% RH, Non-condensing

## Dimensions (Units: mm)



## Applications

AFAN-04 is compatible with 19" cabinet.



## Ordering Information

<b>AFAN-04 CR</b>	1U 4 Way Cooling Fan Module (RoHS)
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