# EMC1600 Media Converter and Ethernet Extender Chassis

## Installation Guide

## 1 Unpacking

Open the carton and unpack the items. Your package should include:

- 16-Bay Media Converter Chassis
- Power cords
- User's Manual
- Brackets & Bracket screws
- Media converter carriers, fitted to each bay

If any items are missing or damaged, notify your EtherWAN representative.

## 2 Select a Location

The installation site should be free of extreme temperatures, humidity, or excessive electromagnetic interference. Specifically, the site should meet the following requirements:

- The ambient temperature should be between 32 and 113 degrees Fahrenheit (0 to 45 degrees Celsius).
- The relative humidity should be at least 5% and less than 95 percent, non-condensing.
- Surrounding electrical devices should not exceed the electromagnetic field (EMC) standards for IEC 801 3, Level 2 (3V/M) field strength.
- Make sure that the equipment receives adequate ventilation. Do not block the ventilation holes on each side of the equipment or the fan exhaust port on the side or rear of the equipment.

## 3 Rack Mounting

Use the rackmount brackets and screws to install the chassis into any EIA 19" standard rack.

- Place the brackets on the sides of the chassis so that the screw holes are aligned. Use the bracket screws to securely attach the brackets to the chassis.
- Position the chassis into the rack. Align the brackets to the side holes on the rack and use rack screws to secure the chassis to the rack.

## 4 Installing Components

Each bay is equipped with a holding tray, secured to the chassis by a retaining screw. To install a media converter or Ethernet extender:

1) Loosen the retaining screw and pull the holding tray out.
2) Remove the inner face plate from the holding tray.
3) Fit the component into the holding tray, and then slide the holding tray into the bay.
4) Tighten the retaining screw to secure the holding tray and component in place.

**NOTE:** Do not insert a media converter or Ethernet extender into the chassis directly without using the supplied holding trays. The holding trays ensure correct placement of components, and provide electrical insulation.

## 5 Connect Power

The chassis provides dual power supplies for redundancy and load sharing. However, only one power supply is needed to operate the chassis.

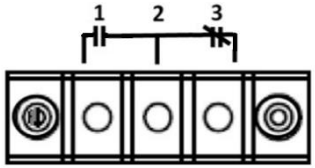
**AC Power:** Connect the supplied AC power cords to the receptacles power supply. Plug the cords in to a standard AC outlet with a voltage range from 100~240VAC.

**DC Power:** Connect the DC power cords to the terminal blocks on the back of the chassis.

Power Consumption
Chassis: 5.4W Max.

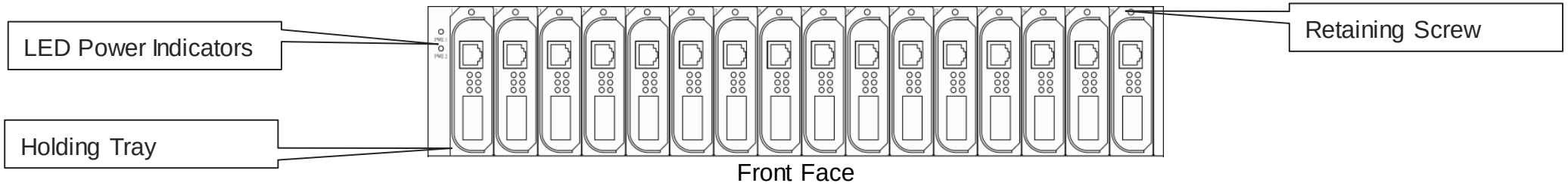
## 6 Relay Output Alarm

The chassis provides a 3-pin relay dry contact located at the rear panel of the chassis for signaling of a power failure. The relay output can be connected to an alarm signaling device. The relay alarm will be triggered when the system power falls below 10.8VDC. The relay logic will apply for both single and dual power operation. Current is 0.6 Amps at 30VDC.

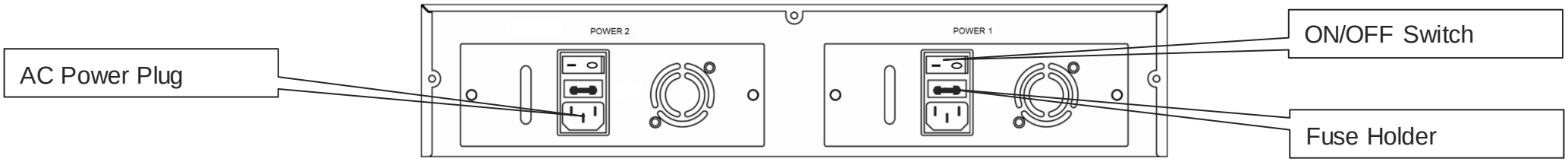



Normal state: 3 & 2 open, 2 & 1 closed
Alarm state: 3 & 2 closed, 2 & 1 open

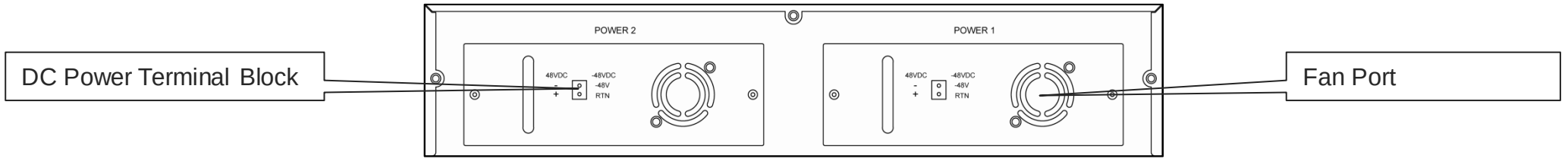
## 7 Device Overview



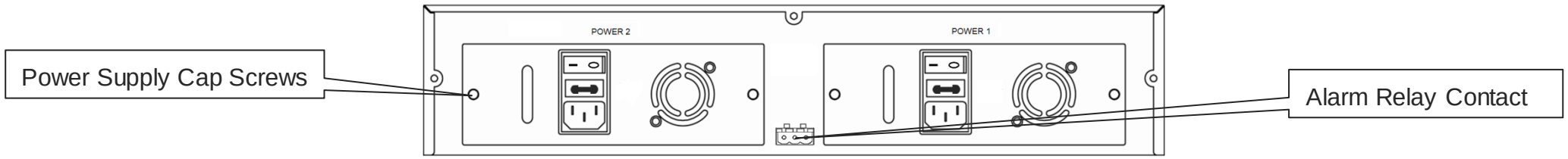

Front Face




AC Power Model




DC Power Model




AC Power Model with Alarm Relay Contact