

Tellabs® Network™ 1000 Multi-Service Access (MSA) Series 1U Fan Tray Unit (1U Fan Tray)

Overview

The Tellabs 1000 MSA Series 1U Fan Tray is a compact forced air cooling module designed for installation in an Tellabs 1900 MSA Series cabinet, in a Central Office (CO), or in an Tellabs 1000 retrofit application. The 1U Fan Tray is a sheet metal enclosure with six fans. The fan tray fits in a 19-inch standard rack or a 23-inch rack (with extension adapter brackets). You can control the speed of the fans and the fan activation and deactivation temperatures.

The fan tray rack-mounts directly under an Tellabs 1000 MSA series Channel Bank Assembly (CBA) to distribute cooling air through the plug-in cards to dissipate heat. A test switch on the fan tray front panel allows the fans to be manually tested for correct functioning. In the event of fan tray failure, the fan tray alarm relays communicate with the appropriate alarm monitoring interface.

The 1U Fan Tray moves air at approximately 400 cubic feet per minute (CFM). The thermostat activates the fans at 35° C (96° F) and deactivates them at 30° C (85° F). You can set the fan activation/deactivation temperatures on the fan tray control board. The maximum power draw for the 1U Fan Tray is approximately 30W at 48 V DC. The 1U Fan Tray can activate the Fan Failure (minor alarm) in the Craft Interface.

Power the 1U Fan Tray with either the Tellabs 1000 MSA Series Universal Power Assembly (UPA) or with any third-party -48 V DC power source.

Features and Benefits

- Thermostat
- Temperature control
- Fan speed control
- Test switch
- LED alarm display
- Lifetime: 70,000 hours at 25° C (77° F)
- In rush current limit
- Reverse polarity protection

Specifications

Mechanical

- Dimensions
 - Height: 1.72 in
 - Width: 19 in
 - Depth: 11 in
 - Weight: 12 lbs with fans
- Finish: Cold rolled steel, zinc plated per ASTM-B633 Type II gold
- Equipment Mounting: 19 or 23 in rack (with extension adapter brackets)

Operational

- Temperature: 14° F to 167° F (-10° C to 75° C)
- Relative Humidity: 85% non-condensing
- Altitude: Up to 10,000 feet

Thermal

- Air flow: 400 Cubic Feet Minute (CFM) open flow
- Fans activated: 96° F (35° C)
- Fans deactivated: 85° F (30° C)

Power

- -48 V DC +/-8 V DC, 0.63A draw (30 Watts)
- Fused: 2A

Alarms

- Fan Failure (minor)
- Normally Open (NO) contact

Test

- Test button on front panel to check operation of the fans (test duration is approximately 30 seconds)

Control Settings

- Fan speed — jumper on back of unit
- Fan activation/deactivation temperatures selection — DIP switches on back of unit

Compliance

- UL 60950
- CSA 22.2
- EN 60950

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