

Altronix ACM8CB

Altronix Power Module ACM8CB

OUTPUT ACCESS POWER CONTROLLER MODULE

Introduction

The Altronix ACM8CB is an advanced 8-output access power controller module designed to manage power distribution for various access control devices. This module efficiently converts input voltage (12 to 24 Volt AC or DC) to provide regulated output power, ensuring reliable operation of connected equipment. It is built with durable phenolic or fiberglass material, offering robust performance in demanding environments.

Key Features

- **8-Output Power Distribution:** Provides eight independently controlled power outputs for multiple devices.
- **Flexible Input Voltage:** Accepts 12 to 24 Volt AC or DC input.
- **Regulated Output:** Delivers stable 12 to 24 Volt AC or DC output.
- **Durable Construction:** Made from high-quality phenolic or fiberglass material for longevity.
- **UL Recognized:** Complies with UL RECOGNIZED and UL294 standards for safety and performance.
- **Compact Design:** Measures 8.00 In (width) x 4.50 In (length) x 1.25 In (height).

Setup and Installation

Proper installation is crucial for the safe and efficient operation of the ACM8CB module. Always ensure power is disconnected before beginning any installation procedures.

1. **Mounting:** Securely mount the ACM8CB module within an appropriate enclosure, ensuring adequate ventilation. Use non-conductive standoffs if mounting directly to a metal surface.
2. **Power Input Connection:** Connect the 12-24V AC or DC power source to the designated input terminals on the module. Observe correct polarity for DC input.
3. **Output Device Connection:** Connect your access control devices (e.g., locks, readers, sensors) to the eight individual output terminals. Each output is clearly labeled (Output 1-8). Ensure correct wiring for each device as per its manufacturer's instructions.
4. **Trigger Input (Optional):** If utilizing the trigger feature, connect the trigger source to the designated trigger input terminals. This allows for external control over the power outputs.

5. **Grounding:** Ensure the module and all connected devices are properly grounded according to local electrical codes.
6. **Initial Power-Up:** After all connections are verified, apply power to the module. Observe the status indicators (LEDs) for proper operation.

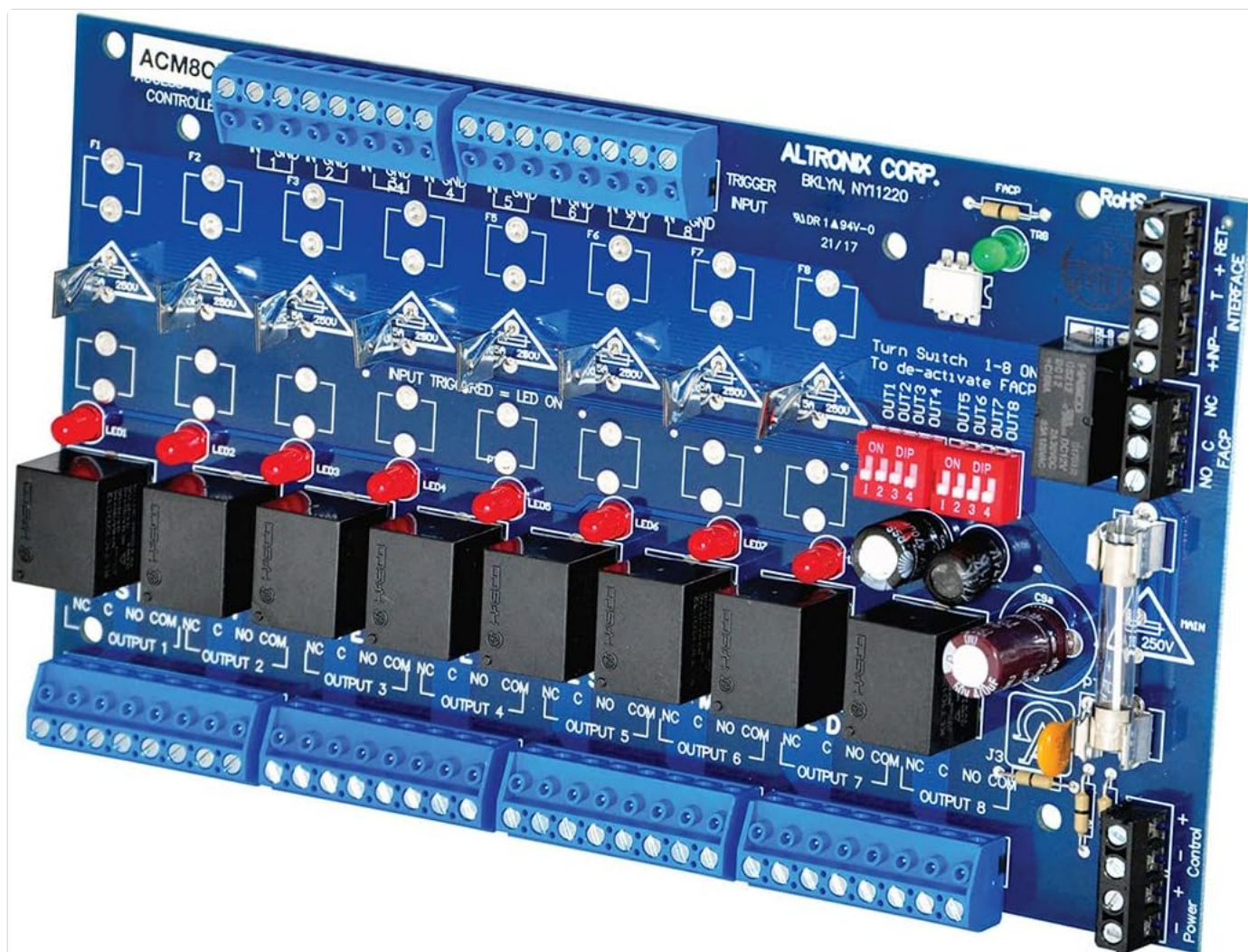


Figure 1: Top view of the Altronix ACM8CB module, showing the input and output terminals, fuses, and LED indicators. Note the clearly marked output sections (Output 1-8) and the trigger input area.

Operating Instructions

The ACM8CB module operates by distributing power to connected devices based on its configuration and trigger inputs.

- **Power Indicators:** The module features LED indicators (e.g., LED1-LED8) that illuminate when power is supplied to the corresponding output. A main power LED indicates overall module power status.
- **Output Control:** Power to each of the eight outputs can be individually controlled or triggered. Refer to the specific wiring diagram for your access control system to understand how the trigger input affects the outputs.
- **Fuse Protection:** Each output is protected by a fuse (e.g., F1-F8). In case of an overload or short circuit on an output, the corresponding fuse will blow, protecting the module and connected device. Replace blown fuses only with the specified type and rating.



Figure 2: Underside view of the Altronix ACM8CB module, providing a closer look at the circuit board layout and various electronic components, including the PTCs (Positive Temperature Coefficient resettable fuses) and relays.

Maintenance

The Altronix ACM8CB module is designed for minimal maintenance. However, periodic checks can ensure optimal performance and longevity.

- **Visual Inspection:** Periodically inspect the module for any signs of physical damage, loose connections, or discoloration.
- **Dust Removal:** Ensure the module is free from excessive dust accumulation, which can impede heat dissipation. Use a soft brush or compressed air for cleaning.
- **Fuse Check:** If an output is not functioning, check the corresponding fuse. Replace only with fuses of the exact same type and rating as marked on the board (e.g., 2.5A/250V).
- **Environmental Conditions:** Ensure the module is operating within its specified temperature and humidity ranges to prevent premature failure.

Troubleshooting

Problem	Possible Cause	Solution
No power to any output.	No input power; main fuse blown; faulty power supply.	Verify input power connection and source. Check and replace the main fuse if necessary. Test the power supply.
Specific output not working.	Blown output fuse; short circuit on output; faulty connected device.	Check and replace the specific output fuse. Disconnect the device to check for short. Test the connected device.
LED indicators not illuminating.	No power; faulty LED; module malfunction.	Verify power input. If power is present and LEDs are off, contact technical support.
Module overheating.	Overload on outputs; insufficient ventilation; internal fault.	Reduce load on outputs. Ensure proper airflow around the module. If problem persists, contact technical support.

Specifications

Attribute	Detail
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Attribute	Detail
Model Number	ACM8CB
Product Type	Access Power Controller Module
Input Voltage	12 to 24 Volt AC or DC
Output Voltage	12 to 24 Volt AC or DC
Number of Outputs	8
Material	Phenolic or Fiberglass
Dimensions (L x W x H)	4.50 In x 8.00 In x 1.25 In
Weight	11.18 ounces
Standards	UL RECOGNIZED, UL294
Manufacturer	ALTRONIX
Date First Available	December 17, 2008

Warranty and Support

For warranty information and technical support regarding your Altronix ACM8CB module, please refer to the official Altronix website or contact their customer service department directly. Keep your purchase receipt and product serial number handy when seeking support.

Altronix provides comprehensive support for their products, including technical assistance and documentation. For the most up-to-date information, visit www.altronix.com.

Related Documents - ACM8CB



Installation guide for Altronix MaximalFD Series Single Power Supply Access Power Controllers (PTC), including Maximal3FD, Maximal5FD, and Maximal7FD models. Covers features, installation, maintenance, wiring, and specifications.



Comprehensive installation guide for Altronix Trove Paxton kits (T2PXK78, T2PXK78D). Learn how to set up advanced access control and power integration systems featuring Altronix power supplies, controllers, and Paxton Net2 Plus modules.



Comprehensive installation guide for Altronix and Honeywell ProWatch/WinPak access control kits, including T2HWK78V, T2HWK78DV, T3HWK7516V, and T3HWK7516DV models. Covers product overview, configuration, installation instructions, hardware, and enclosure dimensions.



Comprehensive installation guide for Altronix Trove1SA1 and Trove2SA2 enclosures with Altronix/SALTO backplanes, designed for integrating access control and power supply systems. Includes specifications, mounting instructions, and module configuration details.



Installation guide for Altronix Trove2/Mercury kits, detailing various fused output models, configuration options, and assembly instructions for access control systems. Includes overview, configuration charts, installation steps, and enclosure dimensions.

AltronixTM DL1 Door Control Timer

- Specifications:**
- 12V, 24V, AC, or DC operation
 - Dry relay output (3 Amp, 120V AC max, 250V AC max)
 - Relay output (3 Amp, 120V AC max, 250V AC max)
 - 100% duty cycle
 - 100% duty cycle
 - 100% duty cycle

Door dimensions: 1.5" x 4" (approx.)
1" x 1" x 1" (approx.)

- Installation Instructions:**
1. Unit operates from 12V, 24V, AC or DC. Maximum voltage 120V.
 2. When using 120V power, polarity does not have to be observed.
 3. When using 120V power, polarity does not have to be observed.
 4. When using 120V power, polarity does not have to be observed.



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Altronix DL1 Door Control Timer: Specifications and Installation Guide

Detailed specifications and installation instructions for the Altronix DL1 Door Control Timer, featuring adjustable timing, relay output, and versatile voltage operation.