



CF PoE Controller

GREEN POWERED SECURITY.

DATASHEET

CF PoE Controller

High Performance.

- Zero-Latency Verification - Sub-second cardholder verification for up to 100,000 users. Patented algorithm.
- P2P Architecture - Door-level intelligence. Operates during server outages. No single point of failure.
- Fire Alarm Fail-Safe – Immediate door release on alarm events. Independent of server availability.
- Global Anti-Passback – Prevents credential sharing across all doors.
- High-Speed Polling - Real-time transaction processing for high-volume environments.

Secure & Reliable.

- End-to-End Encrypted Communication - End-to-end protection with AES-256/OSDP v2 support (Optional).
- Industrial-Grade Protection - surge protection, integrated power supply.
- Full Audit Trail – Stores up to 40,000 events, with expandable options.

One Cable. Done.

- Power + Data Combined - Single Cat 5e/6 cable delivers communication and power.
- Flexible Configurations - Single or double door setups with up to 4 readers.
- Built-in Web Server.



In-built Cooling Mechanism



2 Door CF PoE Controller

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System	
Access Control	1 in / 1 out (single door) or 2 in / 2 out (double door)
Readers	1 in / 1 out (single door) or 2 in / 2 out (double door)
Reader Technology	Standard Wiegand 26/34 format, OSDP V2 (Optional)
Users	Up to 70,000, upgradeable to 150,000
Events	Up to 40,000, upgradeable to 80,000
Inputs Functionality	Fire alarm, exit push button, door contact, tamper
Security Encryption	AES- 256 (Optional)
Controller Redundancy	Supports 2 destination IP addresses
Communication	
Network Interface	RJ45 Ethernet, 10/100 Base-T
Power & Data	Single CAT 5e/6 cable (PoE)
Controller Speed	10/100 Mbps
Network Protocols	TCP/IP, ARP, DHCP
Processing	
MCU	32-bit
Memory	1 MB EEPROM, 16 MB Flash
Electrical	
PoE Input	IEEE 802.3af (PoE) or IEEE 802.3at (PoE+)
Minimum Power Requirement	15.4W per Port (Single-leaf door) or 30 W per Port (Double-leaf door)
Battery Backup	12 VDC, 7AH (onboard charger)
Mechanical	
Dimension	137 (L) x 117 (W) x 15.5 (H) mm (PCB only)
Weight	25g (PCB only)
Environmental	
Operating Temperature	0°C ~ 55°C / 32° ~ 165°F (subject to battery specification)
Humidity	0 ~ 85% Humidity (relative non-condensing)
Regulatory	
Certifications	CE, RoHS

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Order Information



1 Door CF PoE Controller

Model: CTRL-1DRPoE-CF/IP-PCB



2 Doors CF PoE Controller

Model: CTRL-2DRPoE-CF/IP-PCB

Accessories



Metal Casing

Size: 262 x 305 x 70 (mm) (2 Door)



Backup Battery

12VDC



PoE Injector

Support Up to 2/4 EM Locks

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System Architecture

