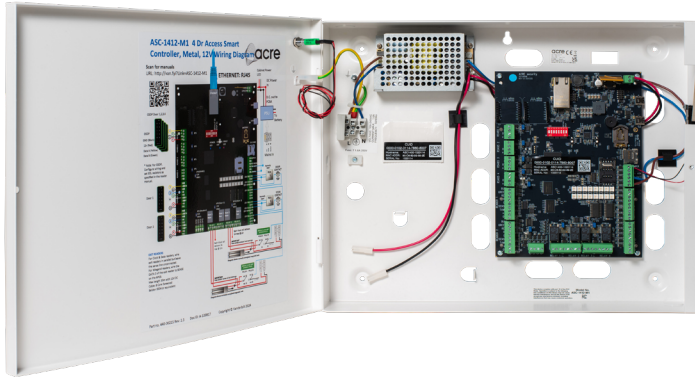The acre Smart Controller is designed to enhance the security of your operations, delivering flexible and secure hardware solutions tailored to your specific needs.

Cost-Efficient and Flexible Design

The acre Smart Controller provides an unmatched combination of cost-effectiveness and design agility, allowing for rapid adaptation to market demands. Investing in acre hardware means choosing a solution that evolves with your business.

Features at a Glance

- ✓ Manage 2 doors with Wiegand or 4 doors using OSDP, supporting up to 8 readers for versatile entry and exit monitoring.

- ✓ 4 relay outputs and 12 contact inputs provide extensive connectivity options.

- ✓ Cardholder capacity of 50,000. Assign up to 512 access levels per cardholder for granular security control.

Cost-Savings without Compromise

Reduce your expenses without sacrificing quality. The acre Smart Controller is competitively priced and provides enhanced features such as additional inputs, making it the superior choice for budget-conscious businesses.

Secure your assets and simplify your access control systems with the acre Smart Controller—where innovation meets security.

Key Features

- ✓ Supports up to 4 doors, 12 inputs, and 4 relay outputs

- ✓ Enhanced features like extended door entry/egress times and 4-15 digit PIN code support enhance your security measures

- ✓ Supports 50,000 Cardholders and 50,000 Transaction buffer

- ✓ Supports multiple card formats, paired and alternate readers, elevator and turnstile devices

- ✓ 4GB eMMC on board and 4Gbit of DDR3 RAM

- ✓ 1 GB Ethernet

- ✓ Host communications protected by TLS 1.3 encryption in transit and AES 256-bit encryption at rest

- ✓ Encrypted file system including database

- ✓ Memory and Clock Battery Backup

- ✓ Power Supply monitoring via onboard dry contact

- ✓ Compliance with FCC, CE, and UL standards ensures top-quality and safety

Acre Smart Controller

Access Control	50,000 cardholder capacity
	50,000 transaction buffer
	Supports total of 4 RS-485 IO protocols
	512 access levels per cardholder
	Cardholder - 19 Digit (64 Bit) User ID with 15 digit PIN MAX Activation/Deactivation
Door Control	Natively supports up to 8 readers and 4 openings connected over OSDP, or 4 readers and 2 openings over Wiegand
OSDP Profiles	Basic and Secure Channel *Please refer to Technical Support to validate if your reader is compatible

GENERAL

Primary Power	12 to 24 VDC ± 10 %, 160mA @12v, 110mA @ 24v maximum (reader and USB ports not included)
Reader Port	1A max shared by all readers maximum (add 1A max shared by all readers to primary power current)
USB-C Port	For Diagnostic Purposes
Battery	Memory/Clock Backup: 3 Volt Lithium, type BR2032 or CR2032
microSD Card	2GB to 256GB
Host Communication	Ethernet: 10/100/1000 Base-TX and USB port (3.0) with optional adapter
Serial I/O Device	2-wire RS-485, 2,400 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit
Inputs	12 programable analog inputs for access control features. 4 programmable Open collector Outputs.
	4 Dedicated Inputs for Tamper/Fire/Battery/Mains Monitoring.
Output Relays	Four relays, Form C, NO/NC 5A @ 30 VDC resistive with LED Status Indicator
Transistor Outputs	4 General purpose open collector 30 vDC sink 100 mA each

READER INTERFACE

Reader Power	12-24 VDC ± 10 % regulated, 500 mA maximum each reader
RS-485 Mode	9,600 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit. Max. cable length: 2000 ft. (609.6 m)
LED Output	TTL levels, high>3 V, low<0.5 V, 5 mA source/sink maximum
Buzzer Output	Open collector, 12 VDC open circuit maximum, 40 mA sink maximum

CABLE REQUIREMENTS

Power and Relays	1 twisted pair, 16 AWG
Ethernet	CAT-5, minimum, CAT-6 recommended
Reader TTL	6-conductor, 18 AWG, 500 feet (150 m) maximum
Reader RS-485	1 twisted pair, shielded, 120 ohm terminated, 24 AWG, 2,000 ft. (610 m) max.
I/O Devices	1 twisted pair with drain wire and shield, 120 ohm terminated, 24 AWG, 4,000 ft. (1,219 m) maximum

ENVIRONMENTAL

Temperature	-55 to +85 °C, storage, 0 to +55 °C, operating
Humidity	5 to 95% RHNC

COMPLIANCE AND WARRANTY

Product Compliance	UL 294 Recognized, FCC Part 15 Class A, CE Compliant, RoHS (2011/65/EU & 2015/863), EU REACH (1907/2006), California Proposition 65
Warranty	2 years

ORDERING INFORMATION

Product Code	ASC-1400-B1	ASC-1400-M1/M2	ASC-1412-M1/M2
Description	4 Door Access Smart Controller, Board Only	4 Door Access Smart Controller, Metal Enclosure	4 Door Access Smart Controller, Metal Enclosure with 12V 60W PSU and 7aH battery fitted separately

MECHANICAL

Dimensions	205x155x30mm	310x265x65mm	390x310x75mm
Weight	300g	2.5Kg	3.7Kg