

Next-Generation

Access Control Panel

ICMMP-2500



Reference image only*

IDCUBE's ICMMP Series Access Control Panel is a future-ready, open-architecture platform built on embedded Linux and natively integrated with IDCUBE's Access360 software suite. At its core, the platform leverages the Authentic Mercury MP Series Intelligent Controller (MP2500), a powerful intelligent controller with native network support, which is scalable up to 64 doors/openings. It delivers access control, alarm management, and scheduled operations in a single package.

HIGHLIGHTS

Open Architecture: High-performance, reliable platform that integrates seamlessly with Mercury OEM partners' software solutions.

Enhanced Cybersecurity: Equipped with ARM TrustZone, secure boot CPU, crypto chip, and data-at-rest encryption for robust protection of sensitive data.

Edge Processing: Supports advanced processing, allowing custom applications to run directly on the controller, expanding intelligence at the edge.

Business Continuity: Built with a long-life processor, dual footprint circuit designs, and proven LP/EP compatibility for reliable operations.

Scalable Performance: A powerful controller with native network support, capable of managing up to 64 doors/openings with advanced access control, alarm management, and scheduled operations.

FEATURES

IPv4/IPv6 support

Host communications secured by TLS 1.2/1.3 or AES-128/256

600,000 cardholder capacity, 500,000 transaction buffer

Controller/IO expansion connections protected by AES

Supports up to 255 access levels per cardholder

19-digit (64-bit) card numbers and 15-digit PIN codes supported

Port-based network access control using 802.1X

Encrypted database with configurable sizing

Anti-pass back support (Area, reader and time based); Programmable keypad user commands; threat level and operating modes

FIPS 140-3 user of OpenSSL

Compatible with wireless locks, power supply alerts, elevator/turnstile control, biometric devices, and intrusion/fire system integration

TECHNICAL SPECIFICATIONS

Intelligent Controller		Cable Requirements	
Card Holders Capacity	600,000 cardholder capacity 500,000 transaction buffer	Header	Alarm Input
Door Control	Does not natively support any readers or openings. Supports up to 32 RS-485 expansion modules for a maximum of 64 readers and openings	Data	1 twisted pair, 30 ohms maximum
		Power	1 twisted pair, 18 to 16 AWG
		Ethernet	CAT-5, minimum
		I/O Devices RS-485	1 twisted pair, shield, 120 ohm impedance, 24 AWG. 4,000 ft. (1,219 m) maximum cable length
General		Environmental	
Primary Power	12 to 24 VDC ± 10 %, 500 mA maximum (reader and USB ports not included)	Temperature	-55 to +85 °C, storage, 0 to +70 °C, operating
Micro USB Port	5 VDC, 500 mA maximum (add 270 mA to primary power current)	Humidity	5 to 95% RHNC
Battery	Memory/Clock Backup: Super Capacitor (10 hours)	Mechanical	
microSD Card	Format: microSD or microSDHC; 2GB to 8GB	Dimensions (Board)	5 in.(127 mm) W x 6 in.(152.4 mm) L x 1 in.(25 mm) H
Host Communication	Ethernet: 10-BaseT/100Base-TX and Micro USB port (2.0) with optional adapter: pluggable model USB2-OTGE100	Weight	4.1 oz. (115 gm) nominal, board only
Serial I/O Device	Two each: 2-wire RS-485, 2,400 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit	Compliance and Warranty	
Inputs	Two unsupervised dedicated for cabinet tamper and UPS fault monitoring	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, NIST Certified Encryption (in process)
		Warranty	The product is warranted free from defects in material and workmanship under normal use and service with proper maintenance for one year from the date of factory shipment.
		Part Code	
		Part Code	ICMMP-2500-EXXXXXX ¹ (Mercury Controller Part number: MP2500)

¹ EXXXXXX refers to enclosure type along with accessories such as power supply, charging circuit, battery, and tamper switch; Please refer to the enclosure datasheet for details

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