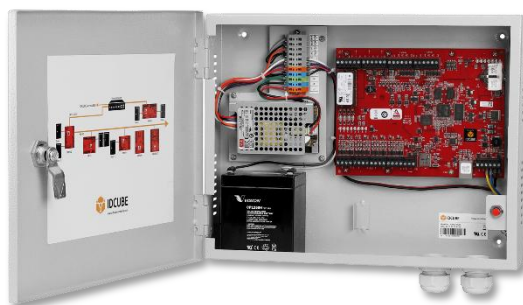
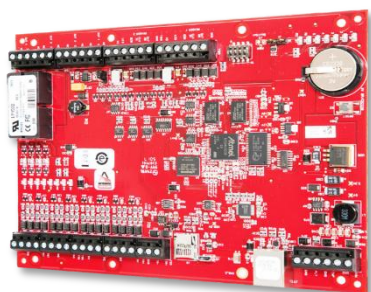


## MLP Series Access Control Panel ICMLP-4502



Reference image only\*

IDCUBE's MLP series Access control panel is the next generation advanced open architecture access control platform that runs on embedded Linux, seamlessly integrates with "Access360" & "INEST" applications. The panel comprises of a new Authentic Mercury LP Series Intelligent Controller 4502 along with optional accessories i.e. UL certified power supply, charging circuit, battery and tamper switch. The enhanced platform offers an improved processor and increased memory, plus feature an embedded crypto memory chip that provides a secured layer of encryption to onboard sensitive data.

The LP4502 supports a variety of extended features including High Assurance Credential Authentication and complies with the BACnet IP communication protocol. A USB-to-Ethernet IP adapter provides a redundant host IP connection. It has direct hardware support for 2 openings and can scale to 64 access points. Built on proven Authentic Mercury hardware, this high-performance intelligent controller embeds elevator destination dispatch and provides integrated power management analytics to proactively detect failure before it occurs..

### KEY FEATURES

Elevator destination dispatch

OSDP Protocol securing channel communication for reader connectivity

20,00,000 card holders and 50,000 transaction buffer

Supports BACnet IP for building control, PSIA area control, SNMPv3/v2c, OSDP SC

Host communications protected by TLS 1.2/1.1 or AES-256/128; Generate and load custom peer certificates for TLS

Controller/IO Expansion connection protected by AES (Series 3 SIO)

Port based network access control using 802.1X

Anti-Passback support (Area, reader and time based); Programmable keypad user commands; threat level and operating modes; Power supply alerts and events

FICAM strong authentication for FIPS-201 US government; FIPS 140-2 user of OpenSSL

\*The panel image illustrates component assembly and may not represent the actual controller board

## TECHNICAL SPECIFICATIONS

Characteristic	Parameter
Door Control	Natively supports for up to 4 readers and 2 openings Expands to support up to 64 readers and openings
Primary Power	12-24 Vdc +/- 10%, 550mA maximum (reader and USB current not included)
Reader Port	600mA maximum (add 600 mA to primary power current)
Micro USB Port	5 Vdc, 500 mA maximum (add 270 mA to primary power current)
Battery	Memory/ Clock Backup: 3 Volt Lithium, type BR2330 or CR2330
Card Holders Capacity	20,00,000 cardholder capacity & 50,000 transaction buffer
microSD Card	Format: microSD or microSDHC; 2GB to 8GB
Host Comm.	Ethernet: 10Base T/100Base-TX and micro USB port (2.0) with optional adapter: pluggable model USB2-OTGE100; IPv4/v6
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
Inputs	Eight unsupervised/supervised, standard EOL: 1k/1k ohm, 1%, ¼ watt. Two unsupervised dedicated for cabinet tamper and UPS fault monitoring
Output Relays	Four relays, Form C, NO 5 A @ 30 Vdc resistive, NC 3 A @ 30 Vdc resistive
Reader Power	12-24 Vdc +/- 10%, 300 mA maximum for each reader
Data Input	TTL compatible inputs, F/2F or 2-wire RS-485 standards supported
Reader TTL	6-conductor, 18 AWG, 500 feet (150 m) maximum
Reader F/2F	4-conductor, 18 AWG, 500 feet (150 m) maximum
RS-485 Mode	9,600 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit. Maximum cable length: 2000 ft. (609.6 m)
RS-485 I/O Devices	1 twisted pair, shield. 120 ohm impedance, 24 AWG, 4,000 ft. (1,219 m) maximum
Alarm Input	1 twisted pair, 30 ohms maximum, typically 22 AWG @ 1000 ft. (304.8 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
Power and Relays	1 twisted pair, 18 to 16 AWG
Ethernet	CAT-5, minimum
Reader RS-485	1 twisted pair, shielded. 24 AWG, 120 ohm impedance, 2,000 feet (610 m) maximum
Operating Temperature	-55 to 85 °C storage, 0 to 70 °C operating
Operating Humidity	5 to 95% RHNC
Dimensions	8.0 in. (203mm) W x 6.0 in. (152mm) L x 1.0 in. (25mm) H
Weight	10.65oz (302 g) nominal, board only
Product Compliance	UL294 Recognized, FCC Part 15 Class A, CE Compliant, RoHS, NIST Certified Encryption
Part Code	ICMLP-4502-EXXXXXX <sup>1</sup> (Mercury Controller Part number: LP4502)

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

### USA

IDCUBE Corporation,  
20, Corporate Place South, 2nd Floor,  
Piscataway,  
New Jersey – 08854, USA

### UAE

IDCUBE - FZE  
Techno Hub 1 – Office G 042,  
Dubai Silicon Oasis,  
Dubai, UAE

### INDIA

IDCUBE Identification Systems Pvt. Ltd.  
B-19, Sector-2, NOIDA 201301,  
UTTAR PRADESH, INDIA  
+91 120 4130715

[contact@idcubesystems.com](mailto:contact@idcubesystems.com) | [www.idcubesystems.com](http://www.idcubesystems.com)

