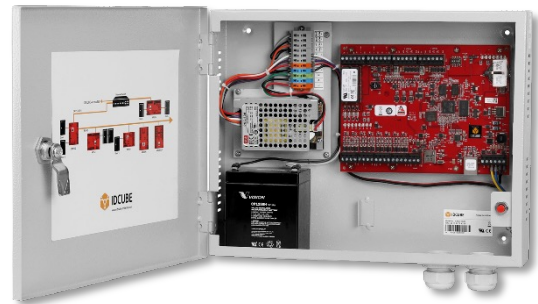


## MLP Series Access Control Panel ICMLP-1501



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 integrated with "Access360" application. The panel comprises of a new Authentic Mercury LP Series Intelligent Controller 1501 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 ICMLP-1501 is an edge-capable intelligent controller that is expandable up to 8 downstream serial input/output modules and up to 16 MR62e network ready door controllers (for a total of 17 doors/openings). The feature-rich controller provides partners with a small footprint, cost-effective dual card reader panel for controlling a single opening. Easy installation with Power-over-Ethernet Plus (PoE+) makes the high performance, ICMLP-1501 a top choice for a single door controller.

### KEY FEATURES

Supports PoE+ power, for easy installation

OSDP Protocol securing channel communication for reader connectivity

240,000 card holders and 50,000 transaction buffer

Supports 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

FIPS 140-2 user of OpenSSL

Supports multiple card formats, paired and alternate readers, elevator, turnstile, biometric devices, fire alarm and intrusion detection

\*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 2 readers and 1 opening. Using on-board OSDP, device controls 1 door and up to 2 OSDP multi-dropped readers. When not using on-board OSDP reader, device can expand to support up to 17 readers and openings in total
Inputs	Two unsupervised/supervised, Programmable End-of-Line resistors, 1k/1k ohm, 1 %, ¼ watt standard, One unsupervised input dedicated for cabinet tamper
Output Relays	Two relays: Form-C contacts: 2 A @ 30 Vdc, resistive
Power Inputs	PoE (12.95 W), compliant to IEEE 802.3af or PoE+ (25 W), compliant to IEEE 802.3at or 12 Vdc +/- 10 %, 1.8 A maximum
Power Outputs	PoE: 12 Vdc @ 625 mA including reader and AUX output * PoE+ or external 12 Vdc: 12 Vdc @ 1.25 A including reader and AUX output * * Excluding micro USB port
Card Holders Capacity	240,000 cardholder capacity & 50,000 transaction buffer
Battery	SRAM Backup Battery, rechargeable
Host Comm.	Ethernet: 10-BaseT/100Base-TX; IPv4/v6
Reader Power Supply	12 Vdc ± 10 %: PoE, PoE+ or local power supply, 300 mA maximum
Data Inputs	Reader port 1: TTL compatible, F/2F or 2-wire RS-485 Reader port 2: TTL compatible or F/2F
LED Output	TTL compatible, 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
Dimensions (Board)	5.5 in. (140 mm) W x 2.75 in. (70 mm) L x 0.96 in. (24 mm) H without bracket
Weight	3.6 oz. (103 g) without bracket , 4.43 oz. (125.5 g) with bracket
Micro USB Port	5 Vdc maximum (deduct 270 mA from reader and Auxiliary Power output)
Power and Relays	1 twisted pair, 18 AWG (when using local 12 Vdc power supply)
Ethernet	CAT-5, minimum
Reader TTL	6-conductor, 18 AWG, 500 ft. (152 m) maximum
Reader F/2F	4-conductor, 18 AWG, 500 ft. (152 m) maximum
Reader RS-485	1 twisted pair, shielded. 24 AWG, 120 ohm impedance, 2000 ft. (610 m) maximum
Alarm Input	1 twisted pair per input, 30 ohms maximum
Alarm Output	As required for the load
Operating Temperature	-55 to 85 °C storage, 0 to 70 °C operating
Operating Humidity	5 to 95% RHNC
Product Compliance	UL294 Recognized <sup>1</sup> , FCC Part 15 Class A, CE Compliant, RoHS, NIST Certified Encryption
Part Code	ICMLP-1501-EXXXXXX <sup>2</sup> (Mercury Controller Part number: LP1501)

<sup>1</sup> For UL, the Power Sourcing Equipment (PSE) such as a PoE or PoE+ enabled network switch and/or PoE or PoE+ power injectors must be UL Listed under UL294B

<sup>2</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

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