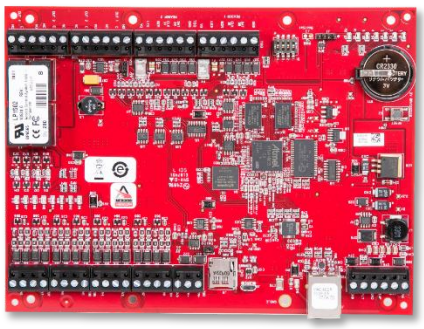
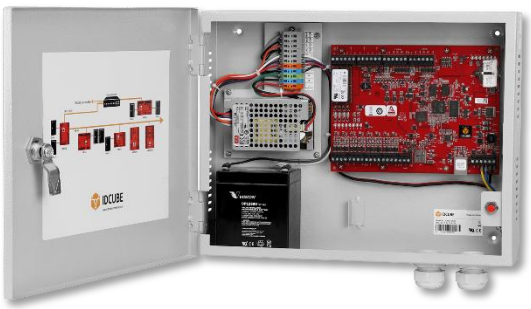
IDCUBE | Controller

Integrated software platforms

Access 360 iNest

MLP Series
Access Control Panel
ICMLP-1502





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 1502 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 multi-port ICMLP-1502 is a dual card reader panel for controlling two connected doors and managing up to 64 doors/openings. Built on the Authentic Mercury platform, the intelligent controller uses the onboard Ethernet port to connect to cloud or server-based access control hosts. The intelligent controller performs access control, alarm management, and scheduled operations -- all in a single package.

KEY FEATURES

- IPv4/v6
- Supports PSIA area control, SNMPv3/v2c, OSDP SC
- 240,000 card holders and 50,000 transaction buffer
- OSDP Protocol securing channel communications for reader connectivity
- 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
- FIPS 140-2 user of OpenSSL
- Anti-Passback support (Area, reader and time based); Programmable keypad user commands; threat level and operating modes
- 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

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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 to 24 Vdc ± 10 %, 500 mA maximum (reader and USB ports not included)
Reader Port	600 mA 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	240,000 cardholder capacity & 50,000 transaction buffer
MicroSD Card	MicroSD or Micro SDHC; 2GB to 8GB
Host Comm.	Ethernet: 10-BaseT/100Base-TX and USB port (2.0) with optional adapter: pluggable model USB2-OTGE100; IPv4/v6
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	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 % regulated, 300 mA maximum each reader
Data Inputs	TTL compatible, F/2F or 2-wire RS-485
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)
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 TTL	6-conductor, 18 AWG, 500 feet (150 m) maximum
Reader F/2F	4-conductor, 18 AWG, 500 feet (150 m) maximum
Reader RS-485	1 twisted pair, shielded, 120 ohm impedance, 24 AWG, 2,000 ft. (610 m) max.
I/O Devices	1 twisted pair with drain wire and shield, 120 ohm impedance, 24 AWG, 4,000 ft. (1,219 m) maximum
Alarm Input	1 twisted pair, 30 ohms maximum
Operating Temperature	-55 to +85 °C, storage, 0 to +70 °C, operating
Operating Humidity	5 to 95% RHNC Mechanical
Dimensions	8 in. (203.2 mm) W x 6 in. (152.4 mm) L x 1 in. (25 mm) H
Weight	9 oz. (255 g) nominal, board only
Product Compliance	UL294 Recognized, FCC Part 15 Class A, CE Compliant, RoHS, NIST Certified Encryption
Part Code	ICMLP-1502-EXXXXXX[1] (Mercury Controller Part number: LP1502)

[1] 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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