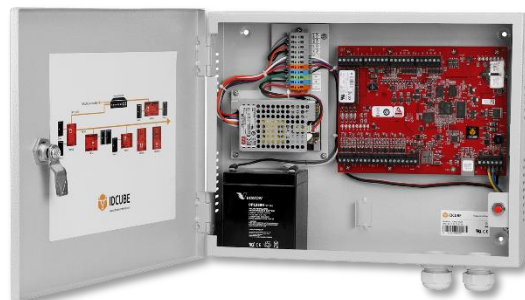# MLP Series
Access Control Panel
ICMLP-2500

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" & "INEST" applications. The panel comprises of a new Authentic Mercury LP Series Intelligent Controller 2500 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.

ICMLP-2500 is a powerful, intelligent controller with native network support and is scalable to 64 doors/openings. Built on the Authentic Mercury platform, the intelligent controller uses an 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

600,000 card holders and 50,000 transaction buffer

OSDP Protocol secure channel encryption 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

TECHNICAL SPECIFICATIONS

Characteristic	Parameter
Number of Doors Controlled	Natively does not support any readers or openings Use in conjunction with IO expansion modules to support up to 64 readers and openings
Number of Readers Supported	None but if used with IO expansion modules supports up to 64 readers, scalable up to 1024 inputs/ outputs
Primary Power	12 to 24 Vdc ± 10%, 250 mA maximum (USB port current not included)
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	600,000 cardholder capacity & 50,000 transaction buffer
microSD Card	Format: microSD or microSDHC; 2GB to 8GB
Host Comm.	Ethernet: 10-BaseT/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	Two unsupervised dedicated for cabinet tamper and UPS fault monitoring
Power and Relays	1 twisted pair, 18 to 16 AWG
Ethernet	CAT-5, minimum
RS-485 Mode	1 twisted pair, shield, 120 ohm impedance, 24 AWG. 4,000 ft. (1,219 m) maximum cable length
Operating Temperature	-55 to 85 °C storage, 0 to 70 °C operating
Operating Humidity	5 to 95% RHNC
Dimensions	5 in. (127 mm) W x 6 in. (152.4 mm) L x 1 in. (25 mm) H
Weight	4.1 oz. (115 gm) nominal, board only
Product Compliance	UL 294 Recognized, FCC Part 15 Class A, CE Compliant, RoHS, NIST Certified Encryption
Part Code	ICMLP-2500-EXXXXXX[1] (Mercury Controller Part number: LP2500)

[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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