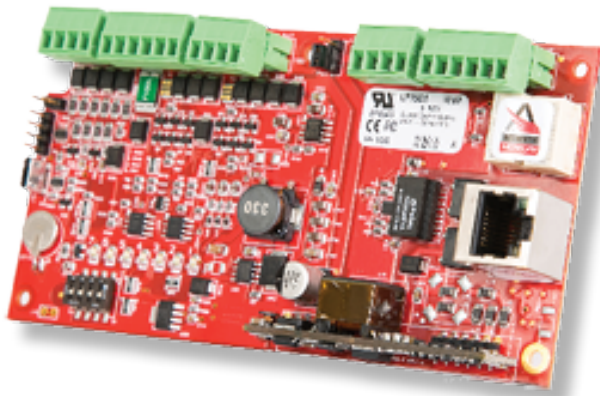


LP SERIES - AC-MER-CONT-LP1501

POE+ EDGE-CAPABLE INTELLIGENT CONTROLLER

The Access Control Manager (ACM) system supports open field hardware from Mercury Security allowing organizations to leverage investments in non-proprietary field hardware, with retrofit programs available for industry standard multi-device interface panels, power and communication controller boards, and intelligent controllers. The new Authentic Mercury LP Series Intelligent Controllers are Mercury Security's enhanced platform with 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 AC-MER-CONT-LP1501 is an edge-capable intelligent controller that is expandable up to 8 downstream serial input/output modules and up to 16 AC-MER-RIM-MR62E network ready door controllers (for a total of 17 doors/openings). The feature-rich AC-MER-CONT-LP1501 provides 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, Ethernet ready AC-MER-CONT-LP1501 a top choice for a single-door controller.

KEY FEATURES

IP-TO-THE-DOOR

Supports PoE+ power, removing the cost of traditional power supplies and home-run wiring

ENHANCED SECURITY

Embedded crypto memory chip and data at rest encryption provides secured layer of protection of sensitive data

OSDP PROTOCOL

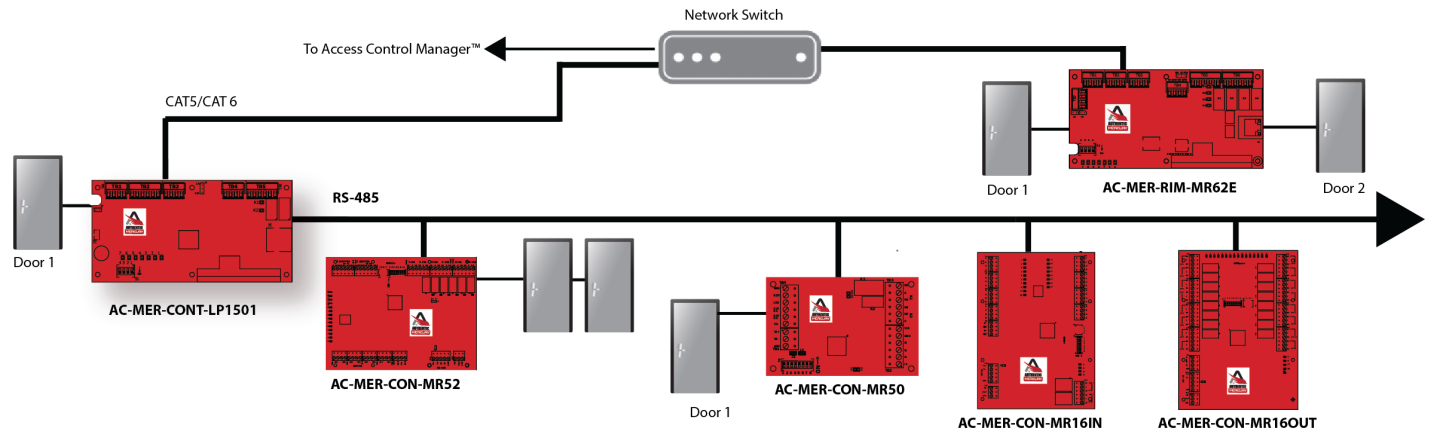
Secure channel communications for reader connectivity

Host communications protected by TLS 1.2/1.1

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

Encrypted database with configurable sizing

SPECIFICATIONS



TECHNICAL SPECIFICATIONS

Access Control	189,486 cardholder capacity 50,000 transaction buffer Supports total of 1 RS-485 IO protocol 16 Cardholder - 19 Digit (64 Bit) User ID with 8 digit PIN MAX Activation/Deactivation	If/Then macro capabilities Anti-passback support Nested, area, hard, soft and timed forgiveness Adjustable cardholder capacity Supports up to 130 inputs and 130 outputs
Door Control	Up to 2 OSDP or Wiegand readers and 1 opening; Using on-board OSDP or Wiegand, device controls 1 door. When not using on-board OSDP reader, device can expand to support up to 17 readers and openings in total	
Power Input*	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 Output*	PoE: 12 Vdc @ 625 mA including reader and AUX output ** PoE+ or external 12 Vdc @ 1.25 A including reader and AUX output** ** Excluding micro USB port	
Micro USB Port	5 Vdc maximum (deduct 270 mA from reader and Auxiliary Power output)	
Battery	SRAM Backup Battery, rechargeable	
Host Comm.	Ethernet: 10-BaseT/100Base-TX	
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	

* PoE power is to be supplied by a Listed ITE or Access Control System Unit (ALVY), power limited, PoE+ injector or PoE+ Ethernet switch providing 42.5 - 57 V DC, 25.5 W for maximum output.

READER INTERFACE

Reader Power	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

CABLE REQUIREMENTS

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

ENVIRONMENTAL

Temperature	-55 to 85 °C storage, 0 to 70 °C, operating
Humidity	5 to 95% RHNC

MECHANICAL

Dimensions	5.5 in. (140 mm) W x 2.75 in. (70 mm) L x 0.96 in. (24 mm) H without bracket 5.5 in. (140 mm) W x 3.63 in. (92 mm) L x 1.33 in. (34 mm) H with bracket
Weight	3.6 oz. (103 g) without bracket 4.43 oz. (125.5 g) with bracket

COMPLIANCE

Product Compliance	UL294 Recognized*, FCC Part 15 Class A, CE Compliant, RoHS, NIST Certified Encryption
--------------------	---

* 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.

6th Edition Performance Levels: Standby Power Level I, Endurance Level IV, Line Security Level I, Destructive Attack Level 1

ORDERING INFORMATION

ORDERING INFORMATION

AC-MER-CONT-LP1501	LP Series - AC-MER-CONT- LP1501 - PoE+ Edge-capable Intelligent Controller
--------------------	--



Aug 2023 | Rev 3

© 2023, Avigilon Corporation. All rights reserved. ACCESS CONTROL MANAGER, ACM, AVIGILON and the AVIGILON logos are trademarks of Avigilon Corporation. MOTOROLA, MOTO, MOTOROLA SOLUTIONS, and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. The MERCURY PLATINUM PARTNER logo is a registered trademark of HID Global. The absence of the symbols ™ and ® in proximity to each trademark in this document or at all is not a disclaimer of ownership of the related trademark.