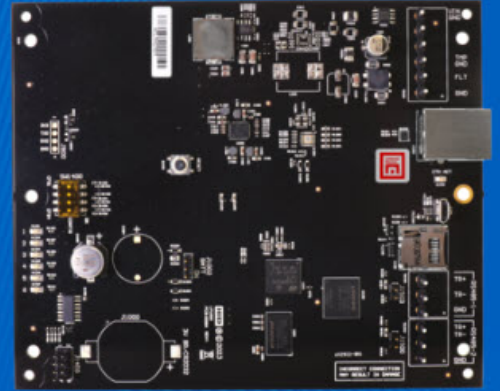


Mercury MP Series Intelligent Controller

Expandable access control for the modern workplace



The Avigilon Alta Access 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 Mercury MP Intelligent Controllers provide a bridge between today's urgent security needs and tomorrow's emerging realities. Featuring Secure world processing within a trusted execution environment and a future-ready, on-device application environment to drive advanced enterprise strategies with sophisticated programs and analytics adjacent to the door.

The AC-MER-CONT-MP2500 from Avigilon is a powerful intelligent controller with native network support. It uses an on-board Ethernet port to connect to the Alta Access system. The intelligent controller performs access control, alarm management, and scheduled operations — all in a single package.

Highlights

Security and network:

- IPv4/v6
- Host communications protected by TLS 1.2/1.3 or AES-256/128
- Controller/IO Expansion connection protected by AES
- Generate and load custom device and peer certificates in support for TLS
- Port-based network access control using 802.1X
- FIPS 140-3 user of OpenSSL (in process)

Open architecture

High performance, reliable platform enables use of hardware with the Alta Access system.

Enhanced cybersecurity

ARM TrustZone, secure boot CPU, crypto chip, and data-at-rest encryption provide a layered security approach to protect sensitive data.

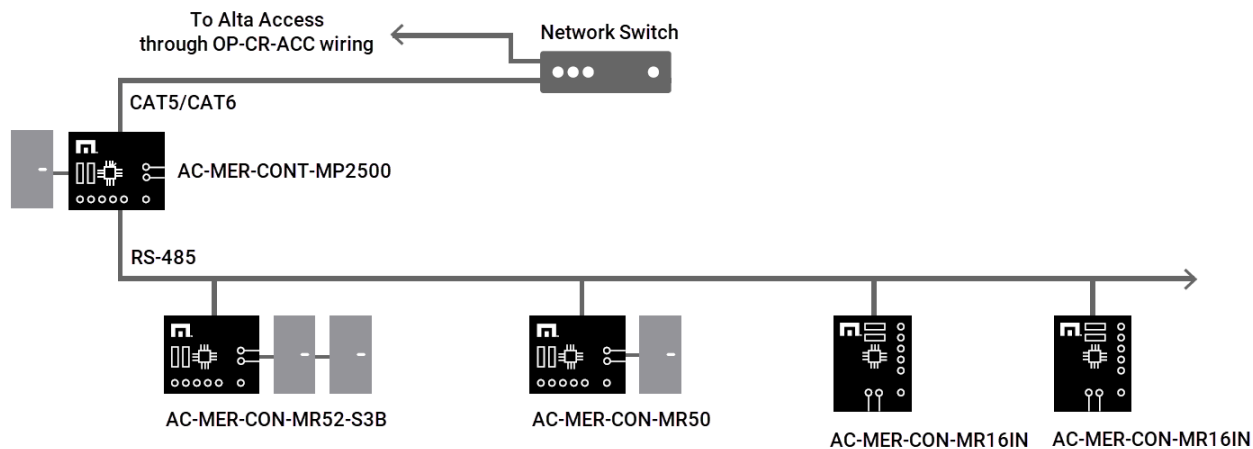
Edge processing

Advanced processing capabilities allow for custom applications to run in the controller, exponentially expanding the platform's processing possibilities at the edge.

Business continuity

New processor part of multi-year longevity program, dual footprint circuit designs, and the same reliable LP/EP interface and footprint.

Specifications



MERCURY MP2500 INTELLIGENT CONTROLLER

Access Control	Supports total of 1 RS-485 IO protocol Activation/deactivation If/Then rule capabilities Anti-passback support Nested, area, hard, soft, and timed forgiveness Supports up to 256 inputs or 256 outputs
Door Control	Does not natively support any readers or openings. Supports up to 16 RS-485 expansion modules for a maximum of 32 entries.

GENERAL

Primary Power	12 to 24 VDC $\pm$ 10 %, 500 mA maximum (reader and USB ports not included)
Micro USB Port	5 VDC, 500 mA maximum (add 270 mA to primary power current)
Battery	Memory/Clock Backup: Super Capacitor (10 days). 3 Volt Lithium, type BR2330 or CR2330 slot available for additional capacity
microSD Card	Format: microSD or microSDHC; 2GB to 8GB
Host Communication	Ethernet: 10-BaseT/100Base-TX and Micro USB port (2.0) with optional adapter: pluggable model USB2-OTGE100
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	2 unsupervised dedicated for cabinet tamper and UPS fault monitoring

CABLE REQUIREMENTS

Header	Alarm Input
Data	1 twisted pair, 30 ohms maximum
Power	1 twisted pair, 18 to 16 AWG
Ethernet	CAT-5, minimum
I/O Devices RS-485	1 twisted pair, shield, 120 ohm impedance, 24 AWG. 4,000 ft. (1,219 m) maximum cable length



ENVIRONMENTAL	
Temperature	Storage: -55° to 85° C Operating: 0° to 70° C
Humidity	5 to 95% RHNC
MECHANICAL	
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
COMPLIANCE AND WARRANTY	
Product Compliance	UL 294 Recognized, FCC Part 15 Class A, CE Compliant, RoHS (2011/65/EU & 2015/863), EU REACH (1907/2006), California Proposition 65, NIST Certified Encryption (in process)
Third-Party Warranty	For more information, visit avigilon.com/support/warranty/third-party

Ordering Information

PART NUMBER	DESCRIPTION
AC-MER-CONT-MP2500	MP Series Intelligent Controller, Linux-based (Mercury part number: MP2500)

Support

For product support, visit: [avigilon.com](https://www.avigilon.com) or sales@avigilon.com

To learn more, visit:
[avigilon.com/access-control/cloud](https://www.avigilon.com/access-control/cloud)



AVIGILON

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