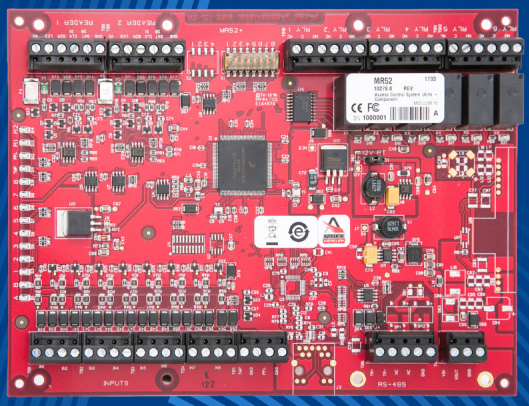
Datasheet | AC-MER-CON-MR52-S3B | Alta Access

Series 3 Serial I/O Dual-Card Reader Interface Panel

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 AC-MER-CON-MR52-S3B Series 3 from Avigilon is an enhanced, high performance, reliable dual-card reader interface panel that offers all the I/O needed for managing two controlled openings with the Alta Access system. It offers an improved processor and more memory with an embedded crypto memory chip for encryption, enabling organizations to stay ahead of internal and external threats to achieve data security.

Each AC-MER-CON-MR52-S3B connects two card readers, eight general-purpose input monitor points, and six control relays to provide access control and security monitoring through the AC-MER-CONT-LP1501, AC-MER-CONT-LP1502, AC-MER-CONT-LP2500, AC-MER-CONT-MP1501, AC-MER-CONT-MP1502, and AC-MER-CONT-MP2500 intelligent controllers. The result is the flexibility, versatility, and reliability required for demanding access control solutions. The Alta Access system and Mercury Series 3 open-field hardware provides the ultimate platform to complete the Avigilon physical access control security solution.

Key features

- AES 128/256-bit data encryption for optimal data protection
- Compact footprint and RS-485 connectivity
- Affordable solution for applications requiring two-reader doors
- Onboard I/Os provide auxiliary point control and monitoring
- 12 or 24 VDC input power support; Offline reader access mode support
- 12 VDC reader support with 24VDC power source
- Interfaces with a wide array of reader technologies including Wiegand, clock and data, magnetic stripe, and keypads
- Supports being clustered or distributed to best suit the installation environment
- Input and output relays support assignment to door-related functions or general-purpose I/O.
- Inputs support normally open, normally closed, supervised and non-supervised circuits.
- Output relays are configurable for fail-safe or fail-secure operation.

Open architecture

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

OSDP protocol

Supports OSDP and Secure Channel protocol for device connectivity, file transfer and extended applications such as biometrics and federal government profile support.

Enhanced security

Embedded crypto memory chip provides a secure layer of encryption to protect sensitive data.

Versatile interoperability

Same reliable interface and identical footprint as the Series 2 Mercury I/O modules enabling seamless upgrades for existing deployments.

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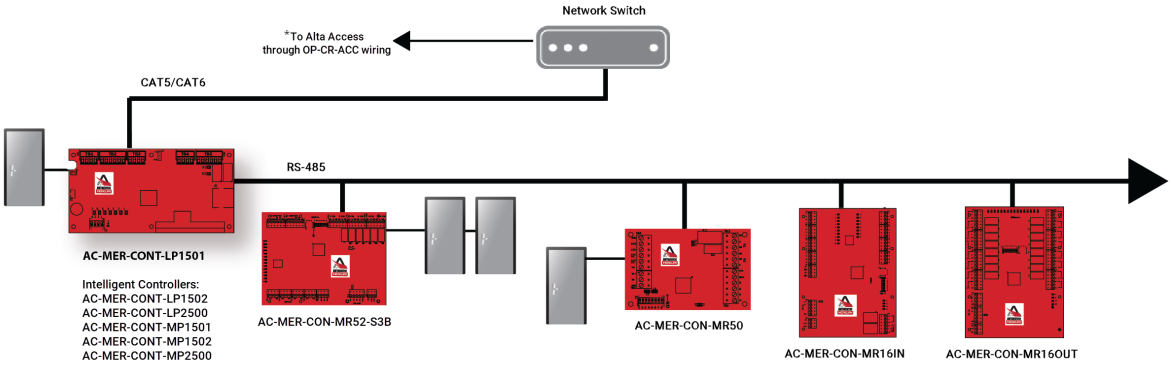
Specifications



*Mercury controllers are added as expansion boards in Alta Access and must be connected to the OP-CR-ACC controller.

TECHNICAL SPECIFICATIONS	
Primary Power	12-24 Vdc +/- 10%, 550mA maximum
Host Communication	RS–485, 2-wire, 4,000’ (twisted pair with shield, Belden 9841)
Reader Port	2 reader ports*
Card/Keypad Data	OSDP, Clock/Data, Data–1/Data–0, or RS-485
Output	4 relays, Form-C contacts rated at 2 A @ 30 Vdc
Inputs	6 unsupervised/supervised, End of Line resistors, 1k/1k ohm, 1%, ¼ watt standard
Keypad	8-bit Mercury, 8-bit Dorado/HID, 4-bit HID
Reader Power	Pass-through or 12 Vdc regulated 300mA each reader
LED	One-wire bi-color LED or two-wire LED
Buzzer	Only with ‘one-wire’ LED
Inputs	8 General Purpose: Programmable circuit type 2 Dedicated: Tamper and Power Monitor
Output Relays	6 Form-C Relays Normally open contact (NO): 5A @ 30 Vdc resistive Normally closed contact (NC): 3A @ 30 Vdc resistive
Dimensions	6.0’ W x 8.0’ L x 1.0’ H (152mm W x 203mm L x 25mm H)
Temperature	0-70 °C operational, -55-85 °C storage
Humidity	5 to 95% RHNC
Standards	UL 294 recognized, CE compliant, RoHS FCC Part 15 Subpart B

*Up to 2 entry/exit door applications (4 readers total) can be supported when connected to OSDP readers.

Application notes

The inputs and the relays may be assigned to door-related functions or to general-purpose I/O. The inputs support normally open, normally closed, supervised and non-supervised circuits. End-of-line (EOL) resistance values are configurable, and the relays can be configured for fail-safe or fail-secure operation.

When connected to a Mercury intelligent controller, the AC-MER-CON-MR52-S3B can relate the activities of selected system devices to other devices within the system, generating actions and allowing activities to occur independent of the host. The AC-MER-CON-MR52-S3B can also locally process access requests based on facility code verification, even when disconnected from an intelligent controller. Up to eight facility codes may be active in each AC-MER-CON-MR52-S3B.

WARRANTY	
Third-Party Warranty	For more information, visit avigilon.com/support/warranty/third-party

Ordering information

PART NUMBER	DESCRIPTION
AC-MER-CON-MR52-S3B	2-Reader Interface Module (2 reader: mag or wiegand, 8 inputs, 6 relays) (Mercury part number: MR52-S3)

Support

For product support, visit: avigilon.com or sales@avigilon.com

To learn more, visit:
avigilon.com/access-control/cloud

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