Intelligent Control Device

The Avigilon™ 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 AC-MER-M5-IC (Mercury M5-IC) is an intelligent control device for the replacement of the Casi PX, PXN and PXNplus CPU controller. The AC-MER-M5-IC is built with a matching form factor to the Casi Micro5 line of access control hardware allowing a fast “screwdriverless” change over and easy migration of a Casi client infrastructure to the Avigilon Access Control Manager system.

Built to manage up to 64 readers, this panel is capable of supporting the family of M5 Bridge products in a retro fit of any Casi hardware system. Additionally, the Ethernet enabled AC-MER-M5-IC has the capability to monitor up to three additional Micro5 enclosures on a RS485 data bus.

The AC-MER-M5-IC possesses all the firmware functions available in the Authentic Mercury controller platform to provide compatibility to forthcoming system functionality Mercury Security has to offer.

The AC-MER-M5-IC and Access Control Manager system are integral components in the Mercury M5 Bridge family approach to migrate Micro5 hardware legacy to the flexible, feature rich Mercury access hardware. This ensures customers an open platform future based on Authentic Mercury controllers.

**KEY FEATURES**

- Network ready
- Decentralized system intelligence
- Provides all current Authentic Mercury firmware functionality
- Initiate commands by operator, by time schedules, or by events
- Built on the Authentic Mercury open platform
- Dual ethernet capability
- Multiple card format support
- Universal I/O device characterization
- AES 128/256 bit encryption and TLS
- Large encoded card number support
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<th>Specifications</th>
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<td><strong>Primary power</strong></td>
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| **Communication ports** | Host (primary): On-board 10-BaseT/100Base-TX Ethernet  
Host (alternate): Optional 10-BaseT/100Base-TX using a Lantronix Micro125 interface daughter board, p/n M01AA003-0IR, or equivalent  
Internal: Communication to M5 I/O boards: 9,600 to 115,200 bps, asynchronous  
External: TB2: 2-wire RS-485 to downstream M5 enclosures: 9600, 19200, 38400, or 115200 bps, asynchronous |
| **Inputs** | 2 non-supervised, dedicated for cabinet tamper and power fault monitoring |
| **Cable requirements** | Power: 1 twisted pair, 18 AWG  
RS-485: 24 AWG, 4,000 ft (1,200 m) maximum, shielded twisted pair, 120 ohm impedance  
Ethernet: Cat 5 minimum  
Alarm input: 1 twisted pair, 30 ohms maximum loop resistance |
| **Dimensions** | W 4.56 in (115.8mm)  
L 10.25 in (260.4mm)  
H 0.8 in (20.3mm) |
| **Weight** | W/o connectors: 5.3oz. (150 g) nominal |
| **Temperature** | Storage -55 °C to +85 °C  
Operating 0 °C to +50 °C |
| **Humidity** | RHNC 5 to 95 % |
| **Access Control** | 600,000 Cardholder capacity  
50,000 Transaction buffer  
If/Then Macro capability |
| **Card Formats** | Eight active card formats per intelligent controller  
16 digit (64-bit) User ID and 15 digit PIN numbers maximum  
PIV-II, CAC, TWIC card compatible  
128 Access Levels per cardholder  
Activation/Deactivation dates and configurable cardholder database  
Large Encoded Card ID (freeform fields up to 245 bits)  
Supports up to nineteen (19) digit card numbers  
Supports pin codes up to fifteen (15) digits  
Programmable card activation and deactivation times and dates |

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<th>Ordering Information</th>
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| **AC-MER-M5-IC** | M5-IC Intelligent Controller  
**Note:** Boards do not include any connectors. |