EBOOK

Intelligent Controllers

Making Facilities Smarter Where It Counts

Edge Computing in Physical Security

In physical access control systems (PACS) of the past, controllers were largely single-purpose devices. Their role was connecting readers, validating credentials and granting or denying egress.

Times have changed. The landscape is increasingly complex. Organizations want to do more than just let employees open doors with keycards. They want to provide seamless experiences across physical and digital systems, unifying credentials to manage a wide range of devices and services — without creating latency that disrupts work activities. Moreover, the emergence of edge-to-cloud integration requires devices bridging distributed environments for efficient data processing and synchronization.

Increasing amounts of data are beyond the capabilities of older technologies. Heightened threats require sophisticated, up-to-date protection. Businesses seek scalable solutions integrating AI and machine learning for proactive threat detection and sophisticated automation.

As the pace of change accelerates, flexible, agile solutions become essential to managing the total cost of ownership for PACS infrastructure. Ultimately, organizations in this dynamic landscape seek technology that enhances flexibility and agility while hardening protection and improving responsiveness to ever-evolving challenges.

Security Edge Computing Will Rely on Next-Generation Controller Capabilities

Controller technology is evolving to enable versatile processing close to the security decision point. This includes expanding the power and storage available on the hardware and growing the options for developers to create new solutions.

As controllers get smarter, their capabilities grow. They gain the ability to run diverse and sophisticated apps locally with high performance. They can connect to a wider range of sensors, devices and systems. And they can execute complex procedures in real time using advanced analytics at the edge, providing faster performance than devices dependent on upstream network communications.

Increasing the range of options to developers, particularly APIs, will energize the innovation landscape, enabling unparalleled openness within access control and neighboring applications. This will drive flexibility in edge computing platforms to deliver extensibility for various end-user needs.

The Benefits of an Intelligent Controller Platform

Mercury MP Intelligent Controllers are designed to support advanced software execution capabilities locally, elevating security at the point of execution for a future-proof infrastructure that can evolve at the speed of software.

Agile and Versatile

Mercury MP Controllers can serve more use cases and organizational needs through software updates and a greater diversity of built-in options, ensuring adaptability to evolving requirements and industry demands.

Future-Proof

The utility of Mercury MP Controllers can evolve rapidly with the addition of new functionality via updates to firmware and on-board applications. This reduces the need to replace hardware as organizational needs change.

Connected

APIs simplify the utilization of server- and cloud-based computing and analytics resources with standards-based connectivity.
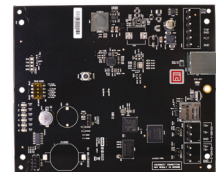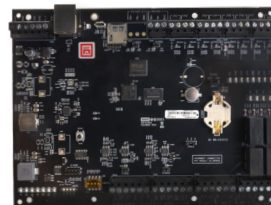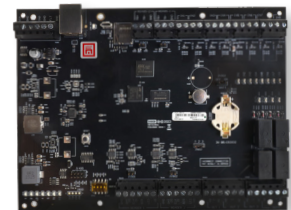
Secure

Intelligent controllers can use advanced cryptography and handle multiple authentication modes, helping organizations protect against complex threats and design robust responses.

MP1501

MP2500

MP1502

MP4502

Data-Driven

Mercury helps you run an intelligent, efficient operation with controller solutions that can unlock insights, extract meaningful patterns from access control data and help you make more informed decisions that enhance safety and efficiency.

Up-to-Date

Mercury firmware, MercOS 2.x, elevates MP controllers with advanced security features, expanded integrations and IoT compatibility, ensuring robust, future-proof operations.

Discover the Power of a More Intelligent Edge

For organizations seeking the most robust and high-performance access control, Mercury's commitment to open innovation ensures a future-ready platform for dynamic operations.

The Mercury MP Controller line delivers on this vision with an application-ready environment, creating the most flexible and extensible PACS edge computing solution on the market. With improved processing capabilities, upgraded storage and memory and a broad partner ecosystem, Mercury MP Controllers are ready for the app-enabled future.

As a result, Mercury helps make secure facilities and operations smarter. We already offer apps for strong authentication/PKI solutions and the integration of elevators, power supplies and wireless locks. Our continued investment in dynamic control beyond the door will drive growth in analytics, real-time decision support, identity management and other edge-enabled capabilities.

Mercury MP Controllers build on a legacy of proven market leadership, with over 5 million devices installed globally. Our belief in openness ensures greater compatibility with the widest range of leading software and hardware to eliminate integration friction and future-proof your technology investments.

Learn how edge computing can empower your security vision.

Learn more

As part of HID, Mercury inspires confidence by leveraging the support of the global leader in identity, security and access control, along with the unparalleled knowledge, experience and capabilities of a global corporation.

mercury-security.com