



iCLASS SE® R10 iCLASS SE® R15 iCLASS SE® R40 iCLASS SE® RK40 iCLASS SE® RMP40 iCLASS SE® R95

iCLASS SE and multiCLASS SE Readers

Providing the highest level of security and convenience in access control

Access control and security requirements are continuously evolving, meaning outdated technology can cause security vulnerabilities and administrative headaches. Practically speaking, most companies will need to upgrade their access control systems in the near future due to the opening of a new location, a merger/acquisition, the need for enhanced user convenience or even a security breach.

iCLASS SE® and multiCLASS SE® readers are ideal for upgrades to existing access control systems or greenfield installations, as they support a broad range of credential technologies to maintain backward compatibility and scale for future security needs.

Key benefits of iCLASS SE and multiCLASS SE readers include:

- Powerful Security:** These readers enhance mutual authentication with smart cards using a layered security approach that leverages the Secure Identity Object (SIO) data model for greater trust. Even more, iCLASS SE and multiCLASS SE readers support the Open Supervised Device Protocol (OSDP) standard, which enables encrypted communication with the controller. These readers also feature a patented velocity checking feature to protect against brute force attacks.
- Proven Interoperability:** iCLASS SE and multiCLASS SE readers support a wide range of credential technologies, including Seos®, iCLASS, MIFARE, 125kHz Prox and more. Beyond credentials, these readers have demonstrated full interoperability with the industry's broadest set of physical access control panels and even support NFC and Bluetooth communication standards.
- Validated Sustainability:** iCLASS SE and multiCLASS SE readers include a unique Intelligent Power Mode feature and are certified by GreenCircle to reduce energy consumption by at least 59%. HID Global discloses Environmental Product Declarations for these readers, bringing a new level of transparency to sustainable manufacturing impact in physical access control.

Additionally, iCLASS SE and multiCLASS SE readers support HID Mobile Access®, enabling a new class of portable identity credentials that can be securely provisioned into mobile devices.





HID Mobile Access

Secure, convenient access control using mobile devices

Mobile devices have transformed every facet of our lives, including access control. With HID Mobile Access®, employees can now use their smartphone, tablet or wearable to access doors, gates, networks and more. This new option for access control greatly improves user convenience in today's mobile-first world, as well as makes your organization look more modern and professional.

HID Mobile Access, which leverages Seos® as its underlying credential technology, offers these key benefits:

- **User Convenience:** End-users are no longer required to carry a card to access facilities and can now use their go-to mobile device instead. Thanks to highly intuitive “Tap” and “Twist and Go” gestures, employees can gain more convenient and efficient access.
- **Operational Efficiency:** Using HID Global’s online Secure Identity Services portal, administrators can create, manage, issue and revoke credentials over-the-air individually or in batches, saving them time and effort in managing access control credentials.
- **Higher Security:** HID Mobile Access uses a cloud-based Trusted Service Manager, Seos credential technology, the Secure Identity Object data model and best practices in data integrity to bind each mobile ID to the device and protect the data at rest and in motion. Beyond technical security protections, overall facility security is elevated by the simple notion that users generally guard their mobile phones more closely than their access cards.

HID Mobile Access apps are easily downloaded on Google Play and Apple iTunes and have proven compatibility with dozens of the most popular mobile phones, tablets and wearables to support an access control ecosystem across continents. Designed for flexibility, the mobile apps and readers support Bluetooth Smart and/or NFC communication standards.

The HID Mobile Access solution provides an optional portal API and mobile app SDK’s that enable integration and customization to meet the unique needs of any organization.

“This solution really represents technology at its best, and the next step in security and convenience for access control.”

Adrian Noriega
Field Project Manager,
RFI Enterprises, Inc.





pivCLASS R40



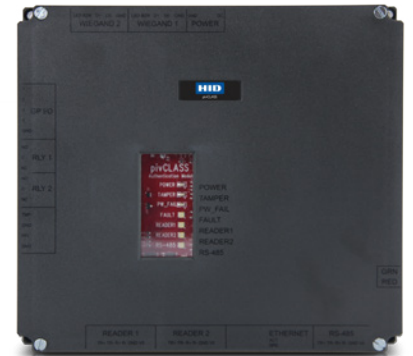
pivCLASS RK40



pivCLASS RKCL40



pivCLASS RKCLB40



pivCLASS Authentication Module (PAM)

pivCLASS

FIPS 201 compliance without needing to “rip and replace”

HID Global’s pivCLASS® authentication solutions meet access control standards for U.S. Federal Government agencies and contractors. The portfolio is comprised of pivCLASS software, the pivCLASS Authentication Module (PAM) and an array of pivCLASS readers. This allows agencies to quickly and easily acquire all of the necessary components to achieve FICAM and FIPS 201 compliance.

pivCLASS Software

pivCLASS software is comprised of three primary modules that enable physical access control systems to use FIPS 201 PKI-based smart cards.

- pivCLASS Registration Engine: Reads, validates, authenticates and automatically registers valid credentials into the physical access control database without any manual data entry
- pivCLASS Certificate Manager: Periodically revalidates the status of the digital certificates and updates the physical access control database
- pivCLASS Reader Services: Configures and manages pivCLASS readers via the PAM

pivCLASS Authentication Module (PAM)

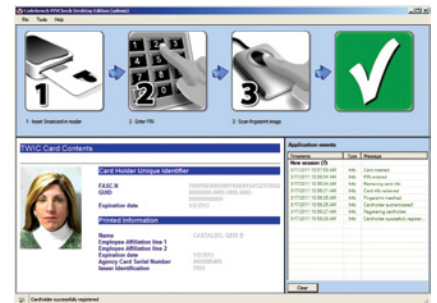
The pivCLASS Authentication Module (PAM) is an embedded computer packaged in a small form factor with pre-installed, updatable firmware. The PAM is installed between a supporting reader (such as a pivCLASS reader) and the access control panel to provide standard Wiegand interface to the controller.

Readers pass card information to the PAM, which performs the required authentication to validate the cardholder credential. If validated, the badge ID is then passed to the existing access control panel for the access authorization decision. Since the PAM regularly receives and caches cardholder credential status from the pivCLASS Certificate Manager, the result is nearly real-time PKI-based high security at the door.

pivCLASS Readers

The pivCLASS Government Solution suite includes a broad selection of readers for agencies to meet any security level and the NIST SP 800-116 guidelines. pivCLASS readers work with the PAM to meet requirements for any assurance level, any authentication mode and any FIPS 201 standard card type.

Additionally, pivCLASS readers provide fully functional backward compatibility with iCLASS® and HID® Prox readers, easing the transition from legacy cards to PKI-based credentials.



Our pivCLASS® line includes everything needed to achieve FICAM and FIPS 201 compliance. Providing the ability to install all at once or over time, HID Global provides the expertise expected from the industry leader.