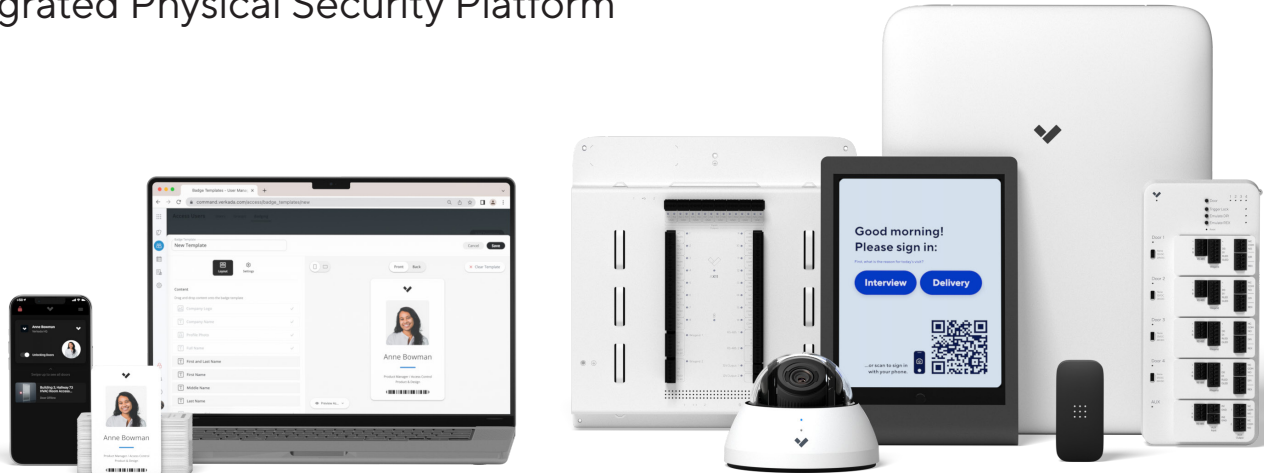


Simplified Enterprise-grade Access Control With Verkada's Integrated Physical Security Platform



Overview

Verkada Access Control combines simplified, enterprise-grade access control hardware with an integrated, cloud-based management platform for a solution that's always simple, secure and ready for scale.

Starting with Verkada's lineup of access control devices, organizations can bring the plug-and-play simplicity of Verkada to managing door access and security across their organization. Verkada's lineup of door controllers work with Verkada's AD33 door reader, Schlage wireless locks, Weigand or OSDP-based readers as well as third party sensors, switches and peripherals. Verkada's simplified hardware footprint minimizes on-premise infrastructure requirements – eliminating cost and complexity.

Once doors and devices are online, they're ready to be managed via Verkada Command. The Verkada Command platform allows you to easily maintain door access schedules, role based access control configurations, alarm and alert settings – from an intuitive single pane of glass. Taken together, Verkada hybrid cloud approach to security allows organizations to not only see what is happening at their points of entry, but also proactively enhance the safety and security of their building by more quickly identifying and taking action anytime instances occur.

Key features

Complete access control system

- Robust family of controllers with the AC42 four-door, the AC62 16-door and the AX11 16-port IO controller
- End-to-end access credentials system from automated user onboarding to badge printing and user provisioning / deprovisioning
- Support for any kind door or entryway from OSDP and Weigand wired card readers to wireless locks, and elevator support

Cloud-first model

- Hybrid-cloud access controllers replace on-premise infrastructure with simplified devices and a cloud-based platform – no more access servers, databases or local clients needed
- Ultimate scale across access points, sites and geographies
- Firmware and hardware updates made automatically with no manual overhead required

Native Verkada integration

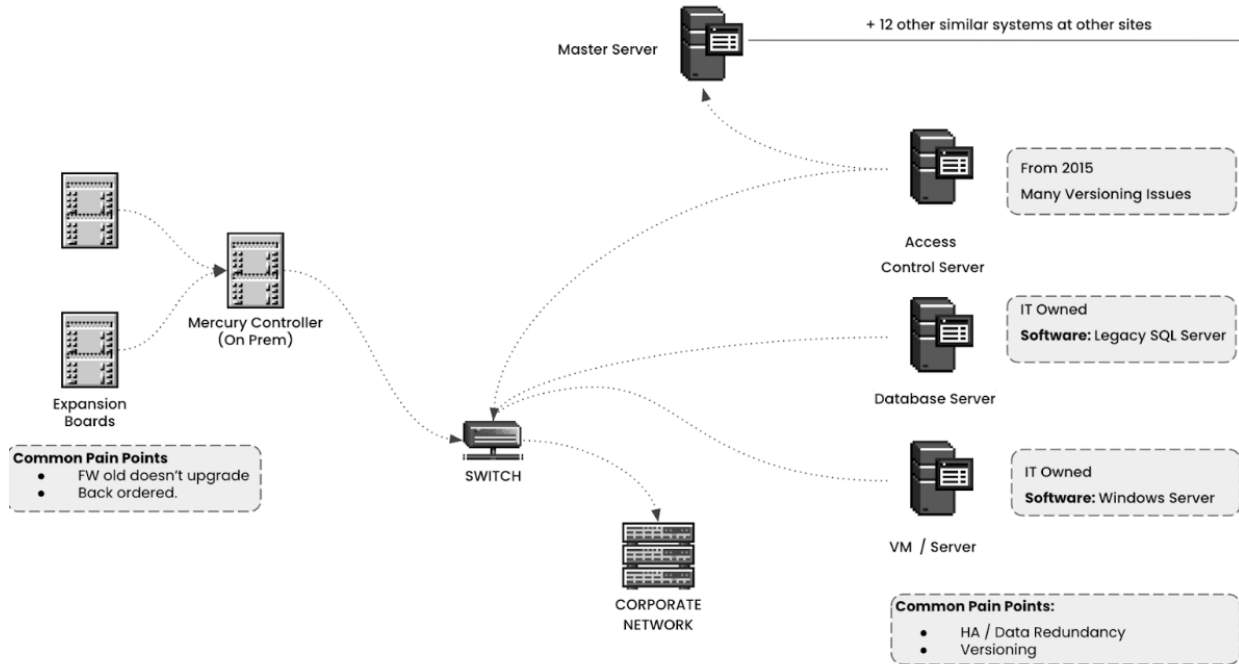
- Native integration with Verkada video security for simplified search and enhanced security
- Integration with Verkada Guest to seamlessly extend Verkada-configured building access to visitors and guests
- Alarm integration provides 24/7 video verification and monitoring for an additional layer of security

1. See more information on supported card readers here: <https://help.verkada.com/en/articles/4424194-badge-reader-support>



Verkada's Software-first Approach to Access Control

Traditional Access Control on-premise infrastructure



Unlike Verkada, traditional access control systems require an array of costly, difficult-to-maintain on-premise systems, servers and databases. This infrastructure presents a number of challenges:

Significant IT overhead requirements

- Mercury hardware, access servers and SQL servers require constant firmware updates, security patches and ongoing maintenance
- Update incompatibility, database migrations and versioning issues cause costly downtime
- Costly infrastructure needed to ensure high availability & backup for all on-prem systems

Scalability

- Scaling on-prem systems to new locations requires VPN or cloud link integrations to unify information on a web-based portal
- No native integrations with video, alarms / monitoring and other systems, siloing important physical security data
- Legacy systems lack intuitive, automated SMS / email alerting and notification capabilities

Security vulnerabilities

- Security patches need to be deployed locally system by system
- Higher risks of failure points with centralized physical security IT and physical infrastructure on complex on-prem systems
- Firmware updates and software updates cause frequent compatibility issues and security vulnerabilities

High total cost of ownership

- Complex systems have high upfront costs and ongoing maintenance costs
- Costly and unpredictable ongoing costs to manage breakdowns and repairs
- High amount of lost time spent on searching through access event logs, getting access and exporting information for investigations
- Scaling systems to more doors or users requires additional on-prem infrastructure and new costs



Verkada's cloud-based Access Control



Hardware reconsidered

Redesigned, simplified access control hardware for easy installation and minimized on-prem footprint

Easy to scale

No servers, databases, or thin clients to manage – do everything from a cloud-based platform

Centralized management

Modern platform enables secure access on any device from anywhere in the world

The Reliability of On-Device Solid-State Storage, With the Scalability of the Cloud

Verkada transforms physical access control by simplifying access hardware and Utilizing a hybrid-cloud architecture. With Verkada's simplified, reliable access hardware and intuitive software, organizations can achieve greater speed and scale with their access control system footprint.

Simplified hardware

- All-in-one hardware units replace complex configurations and disparate on-prem systems
- Thoughtful design streamlines installation, testing and maintenance
- Native cloud-based system moves access control workloads to the cloud behind an intuitive software system

Intuitive tools for enhanced security

- Incident search times reduced to seconds with simplified search capabilities for all access events
- Enhanced incident response and threat detection with automated alerts and SMS / email notifications
- Native camera integration allows for automated security monitoring with AI and ML applications to detect tailgating, crowds and more

Unified access control

- Cloud-based management platform unifies access control systems and users across sites, geographies and users
- Intuitive Command platform and role based access control allows any user to manage the system - not just IT experts
- Native camera integration provides important context and search capabilities for all door events, device and system operations, internal foot traffic and more

Speed and scale

- Unified cloud-based system allows for easy scalability and centralized management
- Edge-based access control provides the scale of the cloud with the speed and security of on-device systems
- Secure encryption technology ensures that on-device data is secure and accessible only from the Verkada cloud



Verkada unified physical security cloud overview

An Integrated Platform for Building Intelligence, Greater Visibility and Real-Time Control



From Command, organizations can also deploy automated and integrated security tools to take a more proactive physical security posture across their organization.

Key features

One-click integrations

- Associate Verkada cameras with access controlled doors to get increased visibility
- Leverage Verkada guest to extend building access to visitors and guests, while still maintaining the same level of visibility and control
- Add multiple cameras to see events from multiple angles and deploy powerful tools like tailgate detection

Enhanced access intelligence

- Instantly see door events and associated context to spot anomalies or risks
- Leverage integrated, edge-based camera AI capabilities like crowd and person of interest detection to add a layer of security beyond physical access control
- Quickly search historical footage with AI- and ML-powered search applications like facial recognition, line crossing, appearance matching and more to identify any patterns or anomalies
- Filter by events such as unlocks, door opens, and access granted or denied to identify key events

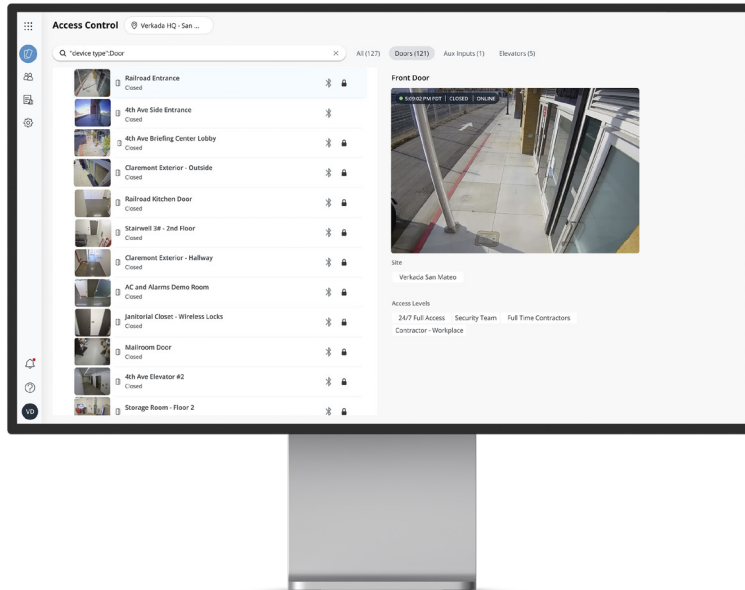
Real-time response

- Stay informed without information overload with SMS and email alerts for doors held open, door forced open, suspicious entry and emergency scenario events
- Respond to emergencies by instantly triggering a lockdown on doors, sites and more from Command web, mobile or the Verkada Pass App
- Automatically call first responders when needed by adding alarm verification to access controlled events
- See who is safe and who is missing in an emergency scenario with roll call reports



Verkada Command: Access Control platform overview

A Unified, Cloud-Based Platform to Manage Enterprise-Scale Access Control



Command, Verkada’s unified cloud-based software platform, delivers simple access control management for all doors, peripherals, cameras and users across all sites globally. From Command, organizations have a single, intuitive system to manage everything related to access control and physical security.

Unified access management

- Manage doors and user access from anywhere on a simple platform
- Centralize door and user policy to simplify access management across every site in your organization
- Manually override door or schedule access for a set amount of time to quickly make adjustments to set schedules

Powerful admin tools

- Get a single, cloud-based view of all door activity data by associating locks, readers, door position indicators and request-to-exit devices within a single view with Command-based door
- See device status for all access devices across your organization to get a one-step pulse of the health of your building’s physical access security
- Control door access by user group, access level, or door schedule to simply create the right role-based access control permissions for your organization
- Quickly adjust user permissions, access settings and even lock or unlock doors from anywhere
- See all door activity in real-time on building floorplans

Simplified permissions and schedules

- Easily create and configure access permissions, access levels, door schedules and more, from almost anywhere globally
- Create schedule exceptions or temporary schedules easily to modify access levels and permissions for events, incidents, schedule changes and more
- Create custom access settings or utilize a per-site access to parallel management structures from other Verkada devices

Simplified, credential management

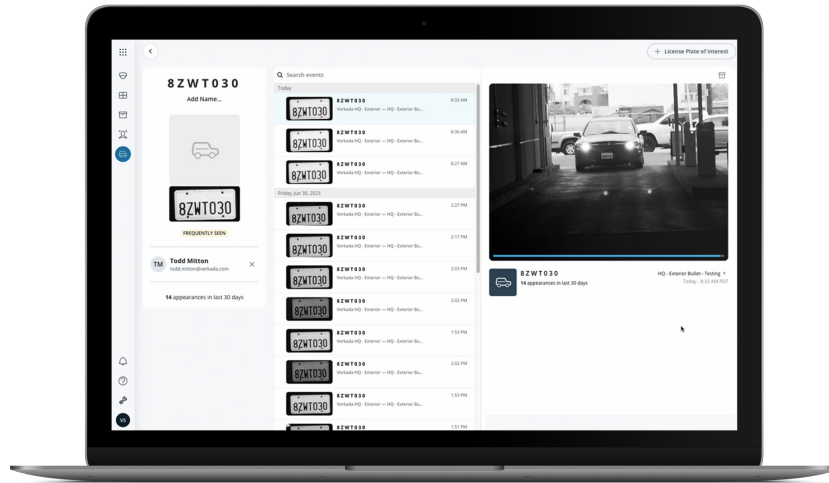
- Integrate Verkada with SSO systems for automated profile creation, provisioning and deprovisioning
- Assign any access method including cards, fobs and mobile BLE access
- Leverage access integrations to add multi-factor authentication through readers, locks, keypads or biometric access points

Powerful reporting

- Get a consolidated view of all users, groups and access events across the organization in one click
- Review access events or schedule delivery of time-, user-, site-, door- and event-based reports
- Quickly view and export video clips of all user access events for quick analysis and investigations



License Plate Recognition to Unlock Gates



Overview

Verkada License Plate Recognition (LPR) Unlock integrates Verkada camera and Verkada access control capabilities to provide secure and hassle-free vehicle access. For users, LPR unlock eliminates the need to badge in, allowing for more seamless gate entry. For admins, LPR unlock adds a new user credential type and provides more data and actionability to door entry events with expanded access control event functionality.

To utilize LPR unlock, customers need to configure and integrate LPR systems with CB52 or CB62 cameras and door unlock capabilities with a Verkada AC42 or AC62 door controller. More information on configuring LPR systems with the CB52 and CB62 cameras can be found [here](#) and more information on configuring access control can be found [here](#).

All LPR unlock capabilities for plate credentials, schedules and access levels can be configured in Verkada command. No additional software licenses or hardware is required.

Key features

Unlock gates with LPR camera technology

Customers who have CB62 or CB52 cameras deployed for License Plate Recognition (LPR) applications can extend the functionality of their cameras to physically control the gates to their buildings.

Simplified access control configurability

With LPR unlock, admins can deploy a practical and manageable LPR experience that enables efficient security at all gates. License plates inherit all of the existing access levels and schedules within a user's access profile, which can be managed via .csv upload or by configuring an individual access control user profile.

Actionable data enhances parking lot security

LPR unlock displays gate unlock events on the access page as an entry event. These events can be searched and filtered. Like any door type, all LPR access control events can be used as inputs for alarm triggers, seen in the alert inbox, and accessed programmatically through Verkada's access control APIs.

Use cases

Bus depots and distribution centers

LPR unlock can secure and provide access to parking lots where drivers may be operating large buses and trucks and may have difficulty accessing a badge reader to open a gate.

Seamless building access

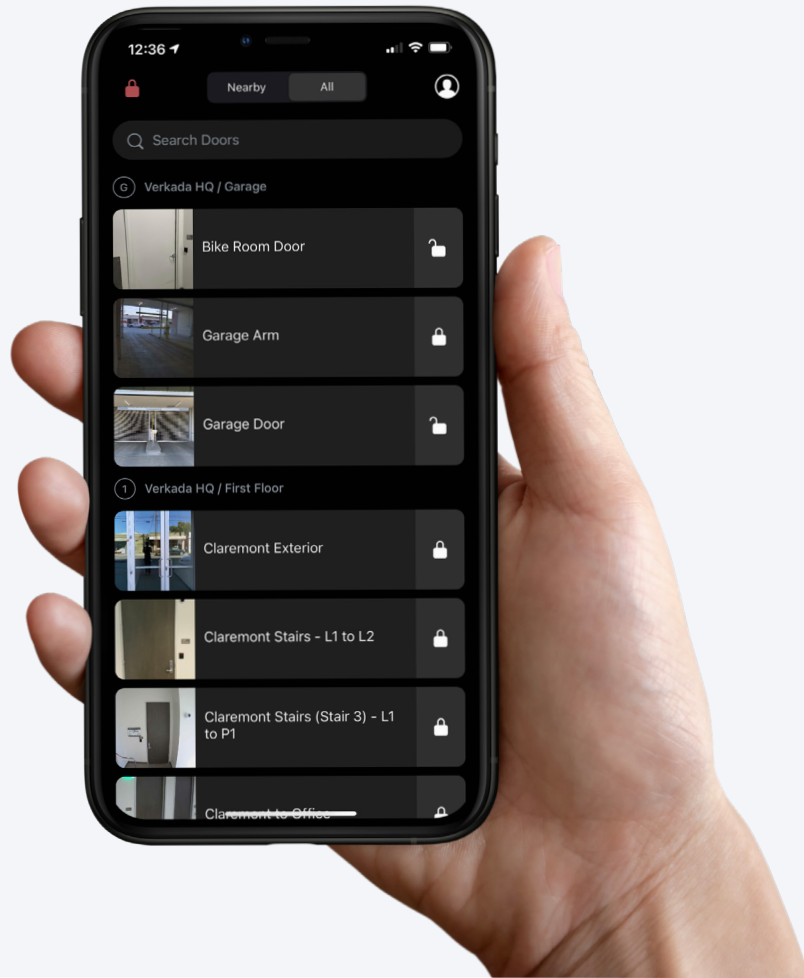
LPR unlock is a great method for providing hassle-free vehicle gate access to employees and guests who are arriving at a facility via car.

Parking lot security

For garages that are unlocked or can be unlocked based on non-credentialed motion sensors, LPR unlock can help secure parking lots from car theft or unauthorized use of EV charging stations.



Verkada Pass App Your Digital Key Card to Accessing Buildings



Touchless Entry via BLE

The Verkada Pass app is an iOS and Android application that provides a modern badging experience with secure Bluetooth access.

Cardless touchless entry

- Leverage employee smartphones to unlock doors in order to increase security and provide a more convenient way to access buildings
- Mobile geofencing ensures users are within a set distance of access points before being able to remotely unlock a door
- Large scan ranges and powerful Bluetooth signal capabilities allow for hands free door access, parking garage access and more

Powerful tools beyond badging

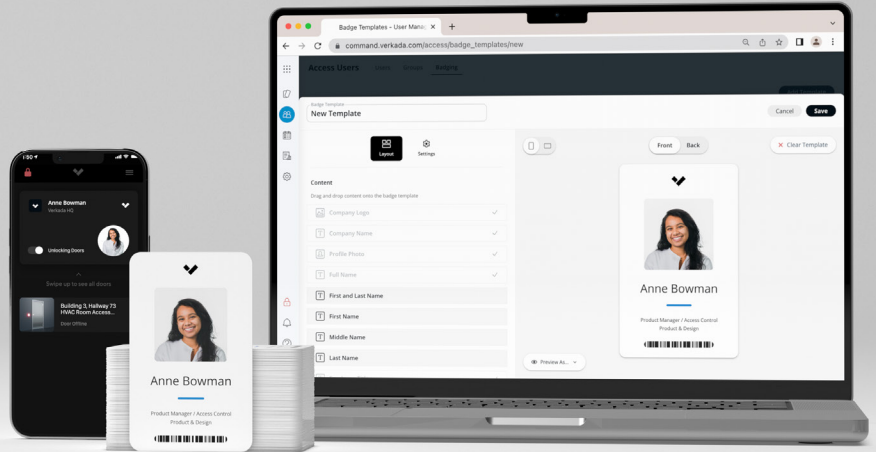
- Create custom lockdown scenarios to immediately secure buildings in case of an emergency and initiate them with a single tap
- Users can remotely unlock authorized doors through the Verkada Pass App from anywhere in the world

Give employees a modern badging experience

- Give employees the same seamless digital experience they get from personal apps in a workplace access solution
- Replace disjointed keys and cards with a simplified, globally scalable solution for a more modern end-user experience
- Allow employees to view the doors they have access to as well as associated camera feeds for more building awareness and enhanced transparency



End-to-end access credentials End-to-end Credential Management In Verkada's Cloud-based Platform



With Verkada’s integrated access control, user credentials, and physical security tools, organizations can take an end-to-end approach to credential management. With Verkada, the credential workflow is streamlined from automated onboarding, to badge design, credential provisioning, automated deprovisioning and more.

Take a Modern, Integrated Approach to Credential Management

Automated identity management with SCIM integration

- Streamline the management and authentication of access users with Verkada’s SCIM integration
- Synchronize users from Single Sign On systems like Okta and Azure Active Directory and capture access levels and groups natively
- Stay ahead and in control of identity management and ensure everything is running smoothly and correctly

Simplified badge design and printing

- Easily design, print and administer credentials right from Verkada Command, saving time and software costs
- Leverage existing user profiles, active directory integrations and access control configurations to design and print badges
- Utilize dozens of distinct fields to customize your employee or student badges

Access Control user API

- Programmatically add, delete, or modify a user or the access of a user
- Powerful integration capability with on-prem Student Information Systems (SIS) like PeopleSoft
- Powerful integration capability with cloud-based user management systems like Workday

Simplified credential access

- Provide employees with Bluetooth credentials or a physical ID card with one click
- Delete users in one click to remove all access permissions profile information across access sites and systems instantly and automatically
- Suspend users temporarily to remove access permissions while still maintaining profile settings and historical records
- Spot- or bulk-print student and employee badges with one click

Versatile access methods

- Use Verkada Pass App for touchless Bluetooth entry or print physical ID badges
- Print badges to any standard badge type and with any standard printer – a full list is available [here](#)
- 128-bit encryption NFC cards offer a programmable and printable card format that customers can quickly deploy right from Verkada Command

Access Control events API

- Build custom integrations between Verkada and third party or in-house systems
- Push events (e.g., door unlocks, access granted, lockdowns) via webhook to get real-time updates of each event or build a programmatic layer on top of access events
- Pull access control events in bulk based on specific criteria for business analytics applications and reporting



Proximity cards Tech Specs



General

Name & Model Number	ACC-PROX-1	Base Part Number - PN	2A-68001-A
Descriptor	Proximity Cards	Size	Height: 54.2mm / 2.1in Width: 85.9mm / 3.4in Depth: 1.9mm / 0.075in
Compatibility	Works With Standard FSK Prox	Weight	0.24oz / 6.8g
Chip Type	T5577	Box Quantity	100 cards
		Warranty	10 years



Encrypted cards Tech Specs



General

Name & Model Number	ACC-EV3-1	Base Part Number - PN	2A-78001-A
Descriptor	High Frequency Smartcard	Size	Height: 54.2mm / 2.1in Width: 85.9mm / 3.4in Depth: 1.9mm / 0.075in
Compatibility	Works With Standard MIFARE DESFire EV3	Weight	0.18oz / 5.1g
Chip Type	MIFARE DESFire EV3	Encryption	AES 128 bit
Box Quantity	100 cards	Warranty	10 years



Verkada Lockdown Capabilities



Verkada Access Control provides enhanced security and emergency preparedness tools through integrated lockdown capabilities. Rather than requiring organizations and individuals to manually lock doors in an emergency, Verkada saves precious time by automating lockdown procedures and allowing individuals to trigger lockdowns from any device.

Configure custom scenarios

- Create lockdown scenarios at the doors, site, buildings or organization level to ensure you can react in real-time
- Configure alerts and notifications for lockdown scenarios so the right people are aware that a scenario has been triggered
- Allow admins and other users to monitor alerts and activate lockdowns as needed - from a single pane of glass - in Verkada Command
- Integrate lockdown capabilities into your organization's ongoing emergency preparedness procedures to enhance response time
- Configure emergency response workflows with Verkada Alarms to better respond to lockdown scenarios by calling authorities and triggering other response protocols

Multiple devices to activate a scenario

- **Activate from Command:** Organizations can activate a lockdown scenario in Verkada Command for a single-pane-of-glass security experience
- **Activate from Verkada Apps:** Organizations can activate a lockdown from the Verkada Pass App or Command Mobile for faster lockdown response, from anywhere
- **Activate from an alarm scenario:** Organizations can respond to Alarm events by triggering a lockdown scenario - configure to trigger automatically or verify the event first with 24/7 professional monitoring
- **Activate from a Panic Button:** Organizations can activate a Lockdown scenario from a dedicated panic button to equip occupants with the fastest possible emergency response methods



Event Bridge with AX11

Get Verkada Video Analytics On Any Door - Even Those Powered by Third Party Controllers



Event Bridge with the AX11 makes Verkada Cameras even more powerful by adding video analytics to doors that are not secured by Verkada. With event bridge, access events from existing alarm and access systems stream directly into Command and generate events, alerts and more to give organizations better visibility of every entrance and exit.

Extending Verkada to more devices and peripherals

- Pair a Verkada camera to existing access controlled doors to get video context on any door event
- Integrate computer vision functionality like crowds, Person of Interest detection, motion and more across doors controlled by Verkada and third party hardware

Real-time alerts and reports

- Configure granular SMS or email notifications for more proactive incident response
- Export reports to investigate or audit historical events
- Integrate with third party alerting systems like shoplifting tags to get added video context and searchable reports for third party systems

Alarms integration with professional monitoring

- Use event bridge door events as triggers for Verkada Alarms
- While your site is armed, agents will review video footage of these events from nearby cameras in real time

Live and historical Access events

- Enable the Access tab to see when the door is opened and held open
- Generate access events for every entry and door held open event to view door activity over time and quickly investigate incidents
- View all your cameras and doors from Verkada's centralized Command platform

Best of both worlds

- Continue using your existing access control or alarms system to avoid disruptions to your business
- Bring doors into the Verkada Command platform without needing to do a full system migration
- Installations take hours, not days
- Migrate from legacy systems to Verkada Access Control as systems go end of life



AC42 4-Door Controller

Software-first Access Control for Security Without Complexity



Overview

The Verkada AC42 is a cloud-managed door controller that replaces complex on-prem access control systems with a single cloud-based door controller. Built from the ground up, every component of the AC42 is designed for enhanced security, faster installation and easier day-to-day management.

To enhance access security, the AC42 leverages cloud technology and native Verkada integration. By unifying disparate on-prem systems in the cloud, the AC42 eliminates security vulnerabilities, update delays, configuration issues and costly on-prem infrastructure and maintenance costs. Additionally, by integrating access control with video security, guest management and more, the AC42 brings verification and unification to physical security systems.

Key features

Simplicity

- Replaces complex on-premise servers and databases with a simplified cloud-based system
- Intuitive wiring layout, integrated power supply unit and a cable organizer offers a seamless install experience
- Configures instantly and updates automatically. No patching, manual updates or IT overhead required

Enhanced security

- On device storage, compute and auxiliary battery support ensures uninterrupted door functionality, regardless of internet or power connectivity
- Native video integration verifies every door events with a tagged video clip
- Real-time AI and ML applications proactively monitor doors to identify anomalies and trends
- Up to 365 days of storage on-device

Scalability

- Cloud-based platform unifies thousands of doors behind a single pane of glass
- Works with standard door hardware, the Verkada AD33 door reader and other third-party door readers
- Secures all door types from high-traffic wired doors to medium- and low-traffic wireless-lock secured doors



AC42 Tech Specs



AC42

Power and network

Power Consumption	60W maximum	Inputs	2x REX dry inputs per door 1x DPI dry input per door 2x auxiliary dry inputs
AC Power Input	100-240VAC 50/60Hz 1.5A maximum	Readers	1x reader port (Verkada/RS-485 or Wiegand) per door Reader current consumption must be < 250mA per reader Note: max of 4 readers can be powered simultaneously
AUX Power	1x 12V @ 250mA	Connectivity	Ethernet: 10/100Mbps RJ-45 for network connection USB 2.0

Mechanical

Dry Relays (External Power Supply)	Dry relay max pass-through power: 24VDC @ 2A (resistive load) 2x auxiliary dry relays	Contact Sensors	4 Contact Sensors Nominal 5VDC 1Kohm to each input (resistors built-in)
Wet Relays (Powered by AC42)	Wet relay switch-selectable power: 12V operation 700mA max 24V operation 350mA max	Operating Temperature	0°C - 50°C / 32°F - 122°F, 5-90% humidity

Compliance and availability

Availability	USA, Canada, India, UK, EU, Rest of World	Compliance & Safety	FCC Part 15 Class A, ICES-3 Class A, CE, UKCA, RCM, VCCI, UL 294, CAN/ULC 60839-11-1, UL 62368-1, CSA C22.2 No. 62368-1, IEC 62368-1, NDAA
---------------------	---	--------------------------------	--

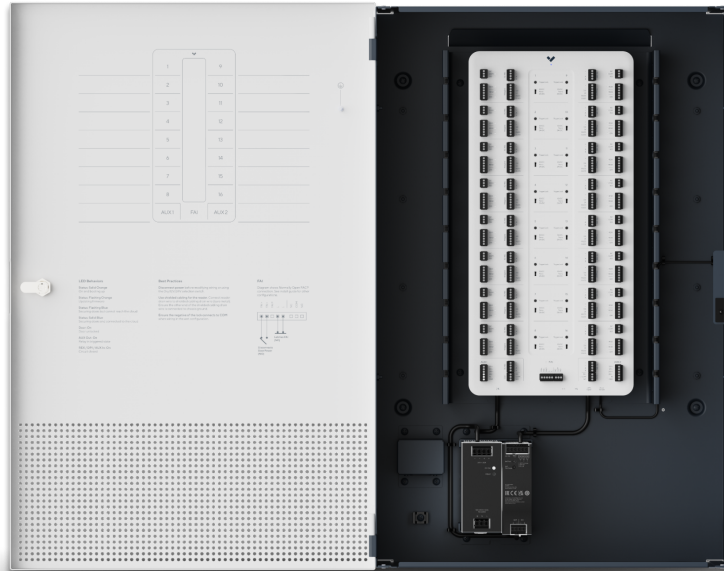
General

Dimensions	Height: 417mm / 16.4in Width: 321mm / 12.6in Depth: 116.25mm / 4.6in	Mounting Options	Mounting plate and 4 wood screws
Weight	6.35kg / 13.9lbs	Included Accessories	Lock key and flat head screwdriver
		Warranty	10 years



AC62 16-Door Controller

Enterprise-Scale Access Control with Cloud-Based Simplicity



Overview

Verkada’s AC62 16-door controller is a cloud-managed, enterprise-scale door controller designed for large access control deployments. The AC62 brings the simplicity and scale of Verkada access control to enterprise-scale buildings and organizations with added functionality, a streamlined hardware footprint and support for up to 16 doors, 2 AUX devices and a Fire Alarm Interface.

Like other Verkada access controllers, the AC62 configures instantly and updates automatically – eliminating the need for manual updates and security patches at enterprise scale. The AC62 connects to Verkada Command via an Ethernet connection. Similarly, thanks to on-device storage, compute and auxiliary battery support, the AC62 can secure doors and make access decisions regardless of power or Internet status.

Key features

Enterprise-scale

- Features 16 door ports, each with two REX inputs, a DPI input and a reader port
- Support for one 12V, 1A or one 24V, 0.5A wet relay per door or one 24VDC, 2A dry relay per door
- Includes two AUX ports that can each power dry inputs, readers and other AUX devices

Easy-to-deploy and manage

- 40% smaller hardware footprint compared to four-door controllers, allowing for more space-conscious deployments
- Detachable terminal blocks and an elegant mounting bracket for effortless installation
- A stenciled diagram on the enclosure door for quick notes and wiring annotations

Fire alarm integration

- Enables easy ability to remove power from maglocks when a fire alarm occurs, allowing for faster egress and firefighter access
- Fire Alarm Interface (FAI) to power down door locks when a signal from a Fire Alarm Control Panel (FACP) is received
- Familiar key-relay reset functionality for fire departments to leverage once buildings are re-secured



AC62 Tech Specs



AC62

Power and network

Power Consumption	350W Maximum	Inputs	2x REX dry inputs per door 1x DPI dry input per door 2x auxiliary dry inputs
AC Power Input	110-240VAC 50-60Hz	Connectivity	Ethernet: 100/1000Mbps RJ-45 for network connection USB 2.0

Reader and relay ports

Door Reader Ports	1x Verkada/RS-485 / door (16 total) 1x Wiegand Port / door (16 total)	Door Reader Power Consumption	Reader current consumption must be < 250mA per reader Note: a max of 16 readers can be powered simultaneously
AUX Reader Ports	2x auxiliary reader ports (Verkada/RS-485) total	AUX Port Consumption	2x 12V @ 1A output 2x 24V @ 0.5A output Reader current consumption must be < 250mA per reader
Relay Outputs	1x wet or dry relay per door Wet relay switch-selectable power: 12V operation 1A max, 24V operation 0.5A max	Relay Outputs	Dry relay max pass-through power: 24VDC @ 2A (resistive load) 2x auxiliary dry relays

Compliance and availability

Availability	USA, Canada, India, UK, EU, Rest of World	Compliance & Safety	FCC Part 15 Class B, ICES-3 Class B, CE, UKCA, RCM, VCCI, UL 294, CAN/ULC 60839-11-1, UL 62368-1, CSA C22.2 No. 62368-1, IEC 62368-1, NDAA
---------------------	---	--------------------------------	--

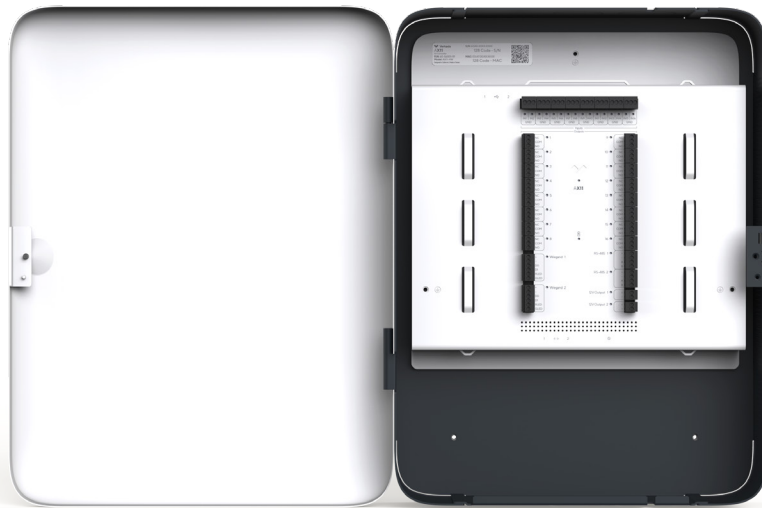
General

Dimensions	Length: 773mm / 30in Width: 499mm / 20in Height: 186mm / 7in	Mounting Options	Mounting plate and 6 screws (#12x1")
Weight	20kg / 44lb	Operating Temperature	0°C - 50°C / 32°F - 122°F, 5 - 90% Humidity
Included Accessories	Lock key and flat head screwdriver	Warranty	10 years



AX11 IO Controller

Adding More Devices Into the Verkada Platform



Overview

The AX11 is a IO Controller that contains 16 dry inputs, 16 dry output relays, two external AUX power outputs and two Weigand and two RS-485 reader ports. Unlike door controllers that support additional hardware such as request-to-exit devices or door position indicators, the AX11's streamlined IO-only design allows organizations to connect a large network of devices into a single, small form factor controller.

With the AX11, organizations can bring seamless extensibility to Verkada access control deployments by access controlling elevators, sensors, switches, peripherals and 3rd party access controlled hardware.

Key features

Elevator access control

- Connect up to two readers to access control up to two elevators with up to 16 floors between them
- Allow users to scan badges and get floor access with readers deployed in the elevator cab
- Leverage Verkada camera integration to get associated video clips for every access decision

DPIs and Event Bridge

- Take advantage of the Verkada Platform without replacing existing access control hardware
- Cross reference AX11 events with Verkada camera footage and ingest them as inputs to alarm and professional monitoring systems
- Connect existing DPIs to the AX11 to create events and get video analytics in Command for door events generated from existing access control and alarm systems
- Connect up to 16 door position indicators (DPIs) to the AX11s 16 inputs to trigger events in Command if a door is held open

Simplified hardware

- Removable connectors and cable management loops simplify wiring
- Status LEDs for inputs, outputs and readers accelerate debugging
- Supports both Verkada (over RS485) and 3rd party card readers (over Wiegand)
- Detachable wall mounting plate streamlines installation



AX11 Tech Specs



AX11

Power and network

Power Consumption	60W Maximum	Inputs	16 Dry Inputs Nominal 5VDC
Power Supply	110-240VAC 50-60Hz	Connectivity	Ethernet: 100/1000Mbps RJ-45 cable connector for network connection USB 2.0

Inputs and relay outputs

Inputs	16 Dry Inputs Nominal 5VDC	Relay Outputs	16 Dry Relays 1A/24VDC Contacts
AUX Power	16 inputs and 16 outputs 2 External Outputs 1A/12V Power Each 2A Combined Max		

Compliance and availability

Availability	USA, Canada, India, UK, EU, Rest of World	Compliance & Safety	FCC, CE, UL 294, UL 62368-1/CSA C22.2, CAN/ULC-60839-11-1:2016, NDAA
---------------------	--	--------------------------------	---

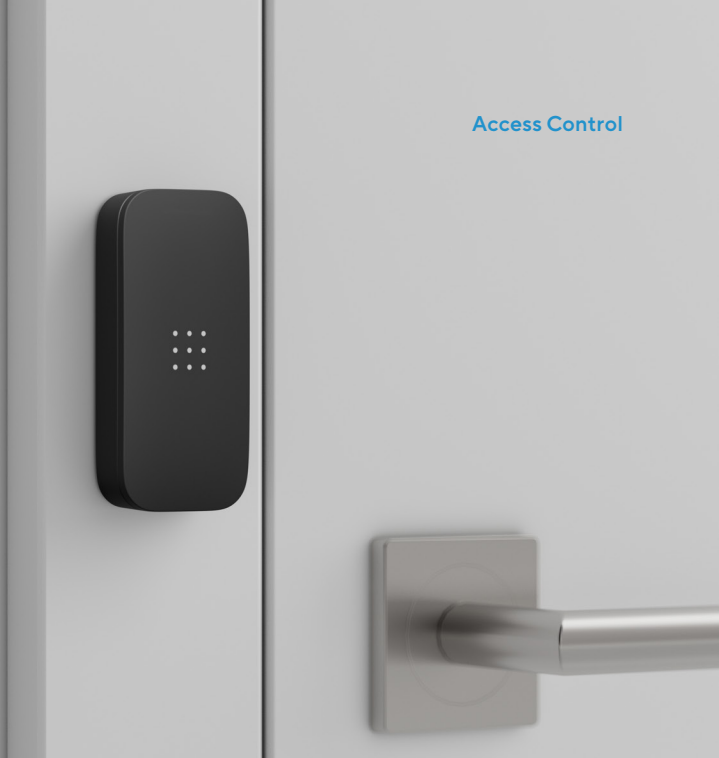
General

Dimensions (With Mount)	Length: 415.6mm / 16.3in Width: 319.6mm / 12.6in Height: 111.7mm / 4.4in	Dimensions (Without Mount)	Length: 415.6mm / 16.3in Width: 319.6mm / 12.6in Height: 105.7mm / 4.2in
Weight	8.3kg / 18.3lb	Operating Temperature	0°C - 50°C / 32°F - 122°F, 5 - 90% Humidity
Included Accessories	Setup guide, screw pack	Mounting Options	Drywall anchors (M8) and screws (M5)
		Warranty	10 years



AD33 card reader

A Multi-Format Card Reader With Intuitive LED Displays for a Simple Badging Experience



Overview

The AD33 is a multi-form factor card reader that brings reliability, security and an intuitive end user experience to hard wired access control installations. Revamped with state of the art hardware, the AD33 is designed to support a growing portfolio of access control software features. The AD33 is IP65 and IK08 rated and is built to withstand harsh outdoor conditions like extended direct sunlight exposure, extreme temperatures and excessive rainfall. The AD33 leverages Verkada’s OSDP based protocol and an RS-485 connection with the access control unit to provide industry-leading access control security.

The AD33 also offers a host of features custom built for end users and building aesthetics. The AD33’s ten indicator and feedback LEDs clearly display the status of any badge events to the end user while also supporting a sleek, modern badging experience. The unit also ships with both a mullion mount plate and a single gang mount plate to support installations on multiple surfaces and spaces.

Key features

Support for multiple card types

- Supports low frequency cards such as 37-bit Wiegand, 35-Bit Corporate and Proximity cards
- Supports high frequency cards such as MiFare and DESFire credentials
- Supports mobile Bluetooth access via the Verkada Pass App

LED behavior for an intuitive end user experience

- The feedback LED on the top of the unit displays white, green or red to indicate that the status of the unit and any associated badge scan events
- The 9 indicator LED lights display green or red feedback LEDs in response to successful and unsuccessful badge events and/or lock states
- Red status and pulsing feedback LEDs display when a lockdown scenario or event has been triggered in Verkada Command, and the that door cannot be unlocked

Designed for easy installations

- LEDs provide information on the real-time connection status between the reader and the controller
- AD33 unit ships with five feet of wiring attached to the reader – allowing easy and simple installation and wiring
- Single gang and mullion form factors are both included out of the box



AD33 Tech Specs



AD33

Power and rating

Power Consumption	12V, 300mA max	Rating	IP65, IK08
--------------------------	----------------	---------------	------------

Compatibility

Controller Compatibility	Requires Verkada Access Control Unit (AC41, AC42 or AC62)	Low Frequency Card Compatibility	HID Prox II 26-Bit (H10301), 37-Bit Wiegand HID H10304, 37-Bit Wiegand HID H10302, HID 35-Bit Corporate 1000
High Frequency Card Compatibility	MiFare / DESFire (CSN), NFC		

Compliance and availability

Availability	USA, Canada, India, UK, EU, Rest of World	Compliance & Safety	FCC, CE, UL 294, UL 62368-1/CSA C22.2, CAN/ULC-60839-11-1:2016, NDAA, TELEC
---------------------	---	--------------------------------	---

General

Mullion Dimensions	Height: 95mm / 3.7in Width: 45mm / 1.8in Depth: 21mm / 0.82in	Single Gang Dimensions	Height: 120mm / 4.7in Width: 80mm / 3.1in Depth: 21mm / 0.82in
Weight	Mullion Mount 0.08kg / 0.175lb Single Gang Mount 0.10kg / 0.225lb	Operating Temperature	-40° to 65°C / -40° to 149°F
Included Accessories	Single gang mounting plate, Mullion mounting plate, T8 Security Torx hand tool, 2 Wall mount screws, 2 M3 Machine screws	Mounting Options	Unit ships with both standard Single Gang mounting plate and Mullion mounting plate
		Warranty	10 years

Wiring

Mullion Dimensions	Abbreviation	Name
Black	GND	Ground
White	A	RS485-A
Green	B	RS485-B
Red	+12V	+12V IN



Wireless lock integrations

Extending the Verkada Platform To Low- and Medium-Traffic Doors With Wireless Lock Integrations



Overview

Customers love Verkada access control because it has been built from the ground up to provide visibility and security to their doors. To make it easy to secure low- and medium-traffic doors, Verkada integrates with leading wireless manufacturers Schlage and Assa Abloy. Through these wireless lock integrations, organizations can secure classrooms, offices, closets, gates and other spaces with less than ~200 locks and unlocks per day.

Verkada’s integration with the Schlage AD and Engage series of wireless locks allows organizations to add Engage NDEB, LE and LEB locks, as well as AD 300 and AD400 locks to Verkada command via a Schlage Gateway and/or PIM 400-485 connection with the AUX port of a Verkada AC41 or AC42 door controller.

Verkada’s integration with the Assa Abloy Aperio lineup of wireless locks allows organizations to integrate mortise and cylindrical locks in the Sargent and Corbin Russwin series. Every lock in the Assa Abloy Aperio lineup connects wirelessly to the Aperio RS485 Hub, which connects directly to a Verkada door controller to provide native integration with Verkada Command.

Verkada’s integration with the Schlage Control series offers a wireless lock integration that communicates with Verkada Command directly through the Engage wireless hub – no controller needed. The Control series is perfect for multifamily residential buildings with dozens or hundreds of residential doors.

Key features

Offline mode for scaled deployments

- The Schlage Engage series wireless locks can be deployed offline with Verkada. Offline mode requires no Hub or Gateway – the lock communicates with Command once daily via Wifi
- This scalable solution is perfect for apartments, dorms, closets and more, where scale, cost effectiveness and ease-of-deployment are paramount

Online mode for real time control

- Schlage Engage and AD series locks, and Assa Abloy Aperio locks can also connect in online mode to Verkada. Online mode utilizes a real time connection via the hub connected to an Verkada controller AUX port
- Online mode allows admins to view every door event and the associated camera analytics for wireless doors
- Online mode also supports lockdown and remote unlock functionality for fully remote management of door systems
- This real-time solution is great for medium traffic doors such as classrooms and offices where real-time connectivity and wireless ease-of-use are valuable

Simple to configure

- Verkada’s wireless lock integrations allows organizations to deploy the same user permissions that exist in Verkada to more doors
- Setting up wireless-controlled doors within Command takes minutes
- Administrators can remotely unlock doors, check access events and streamline incident resolution by tying wireless locks to Verkada devices



Ordering Information

Controller pricing

Model Number	Description	Cost (MSRP) USD
AC62-HW	AC62 16-Door Controller	\$5,299
AC42-HW	AC42 4-Door Controller	\$1,799
AC41-HW	AC41 4-Door Controller	\$1,799
AX11-HW	AX11 IO Controller	\$1,599

Reader pricing

AD33-HW	AD33 Reader	\$349
---------	-------------	-------

Accessories pricing

ACC-BAT-4AH	Verkada 4AH Backup Battery	\$129
ACC-BAT-18AH	AC62 18AH Backup Battery	\$699

License (Per Door) pricing

LIC-AC-1Y	1-Year Cloud License (Per Door)	\$249
LIC-AC-3Y	3-Year Cloud License (Per Door)	\$599
LIC-AC-5Y	5-Year Cloud License (Per Door)	\$999
LIC-AC-10Y	10-Year Cloud License (Per Door)	\$1,999

IO Controller Cloud License pricing

LIC-AX-1Y	1-Year IO Controller License	\$999
LIC-AX-3Y	3-Year IO Controller License	\$2,599
LIC-AX-5Y	5-Year IO Controller License	\$3,999
LIC-AX-10Y	10-Year IO Controller License	\$7,999



Ordering Information

Locks pricing

Model Number	Description	Cost (MSRP) USD
Schlage Locks	NDEB, LE, LEB, AD300, AD400, PIM400-485	Request for pricing
Schlage PIM 400-485	Hub for Schlage AD Series wireless locks	Request for pricing
Engage GWE Gateway	Hub for Schlage Engage series wireless locks	Request for pricing
Assa Abloy AH30 Aperio Hub	Hub for Assa Abloy Aperio wireless locks	Request for pricing
Assa Abloy Locks	All Aperio locks and hubs	Request for pricing

Cards pricing

ACC-PROX-1	Verkada Prox Cards	\$599 / box
ACC-EV3-1	Verkada Encrypted Cards	\$899 / box

AD Series Wireless Lock Estimated pricing*

Model Number	Description	Cost (MSRP) USD
AD-400-CY	Cylindrical Lock	\$2,646
AD-400-933*	Mortise Lock	\$2,937
AD-400-MS	Exit Trim	\$3,044
PIM400-485	PIM Hub	\$1,721
ANT 400-REM-HALL	Remote Antenna Module	\$652



Ordering Information

Engage Series Wireless Lock pricing*

Model Number	Description	Cost (MSRP) USD
NDEB	Cylindrical Lock	\$1,224
LEBMS-ADD	Mortise Lock	\$1,488
LEBMS-GRW	Mortise Lock	\$1,531
GWE	Engage Hub	\$567

Control Series Wireless Locks pricing

Model Number	Description	Cost (MSRP) USD
Control Interconnected	Interconnected Lock	Request for pricing
Control Deadbolt	Deadbolt Lock	Request for pricing

* Final pricing will vary based on final lock information. Note: Up to 4 locks can be attached to one AC41 Door Controller.



Ordering Information

ASSA ABLOY Engage Series Wireless Locks pricing

Model Number	Description	Cost (MSRP) USD
IN100	Sargent IN100 Lock	Request for pricing
ES100	Electric Strike and Card Reader	Request for pricing
DR100	Aperio Wireless Card Reader	Request for pricing
R100	Aperio Wireless Card Reader	Request for pricing
DL100	Wireless Deadlatch	Request for pricing
KS100	Cabinet Locks	Request for pricing
K100	Cabinet Locks	Request for pricing
L100	Electronic Lock	Request for pricing
H100	Electronic Handle Lock	Request for pricing
E100	Escutcheon V3 Series	Request for pricing
AU100	Escutcheon Series	Request for pricing
AH30	Aperio Wireless Hub	\$519