AC12 One-Door Controller

Cloud-Managed Access Control for Standalone Doors

Overview

The AC12 one-door controller brings cloud-managed access control to standalone doors that would otherwise be difficult to secure with an electronic system. The AC12 is powered by a single PoE cable, minimizing the need for costly building modifications or long low-voltage cable runs between doors and IDF closets. Its compact form factor allows for easy installation in tight spaces while its low-profile design blends into most environments.

The AC12 can power most electronic locks and supports native in/out badging with any combination of Verkada and third-party readers. It also includes PoE passthrough, which can provide consistent data and power to any PoE+ peripheral device, such as a Verkada camera.

Like all Verkada access controllers, the AC12 works out of the box and is easy to deploy and manage from Verkada Command. The AC12 comes with a 10-year warranty.

Key features

Compact design

Powers one lock, two readers, a PoE peripheral, and common door accessories from a single, low-profile access control unit (ACU).

On-device reliability

Onboard storage and processing ensures the device will operate even if it has lost power or its internet connection.

Native in/out door support

Two reader ports support any combination of Verkada and third party readers for native in/out door support.

PoE Passthrough

PoE passthrough provides consistent power and data to any PoE+ peripheral device, such as a Verkada camera or alarm console.

Cloud-managed

Verkada Command empowers admins to manage their access control system from any device in nearly any location.

Flexible access credentials

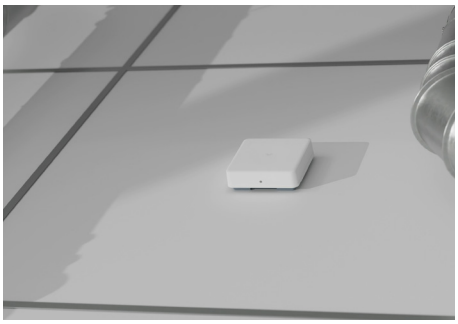
End-users can deploy the credential method(s) that works for them including printed cards or the Verkada Pass mobile Bluetooth application.

Example Use Cases

The AC12 brings more control and visibility to standalone entrances while making it more convenient for end users to securely access spaces. The AC12 can be deployed at standalone doors directly above the doorway – either visibly on the wall or within a drop ceiling – or in tight or difficult-to-reach spaces. By supporting close-proximity installations, the AC12 allows organizations to secure doors with minimal building alterations and cable runs. Below are some example use cases:

Small or single-door commercial buildings

Secure high-traffic, high-visibility access points at retail or office locations without investing in new networking infrastructure.



Single rooms or isolated entrances

Secure office, classroom or other isolated interior doorways; install the device above the door or in a drop ceiling that provides air circulation.

Buildings with extensive LAN infrastructure

Reduce the use of low voltage cable and gain insight into access control device uptime at the door level.

Isolated entry points

Provide comprehensive security for standalone gates, doors or buildings with only a single PoE++ cable.

Difficult-to-modify buildings

Deploy the AC12 directly near the entryways of old or protected buildings for electronic access control with minimal building modifications.

Extend existing Verkada deployments

Integrate the AC12 with any existing or new Verkada controller deployments to secure standalone doors or locations without creating additional configuration or systems overhead.

Complete Door Security with PoE Passthrough

In many instances, cloud-managed access control is just one of the systems used to protect an entryway. Organizations also often deploy a secondary PoE device like a Verkada context camera or an alarm console to bring added security and visibility to entryways. By supporting a peripheral device from the same PoE cable run, the AC12 enables better door security without requiring additional installation or ownership overhead. Below are some example applications of PoE passthrough:

Door context with Verkada dome or mini cameras

Easily place a camera next to an access-controlled door to obtain important visual context on door activity. Verkada context cameras provide more visibility into access control door events as well as ongoing activity and non-door events such as gathering crowds or tailgating.

LPR unlock with Verkada CB52 or CB62 bullet cameras

Provide users with a seamless entry experience by unlocking parking garage gates with license plate recognition (LPR) technology. Use PoE passthrough on the AC12 to power and connect to a CB52 or CB62 bullet camera to automatically recognize and check access permissions for all license plates in the frame.

Threat deterrence with a BZ11 talk-down speaker

Help protect your property from potential intruders by powering a BZ11 horn speaker through the AC12. Users or professional monitoring agents can talk down through the BZ11 to scare off anyone who shouldn't be there. Alternatively, the BZ11 can be configured to play pre-recorded messages if an alarm is triggered.

Arm and disarm your alarm system near an entrance

Connect the AC12 to a BK11/BK21 alarm keypad or a BC82 alarm console to let on-site staff easily arm or disarm the system as they enter or exit the building. Employees can also view camera feeds from around the property, monitor the status of alarm devices and call for help in case of emergency.

AC12
Tech Specs

AC12

Power and network

Power Consumption	15W Max (on PoE), 28W Max (on PoE+) 60W Max (on PoE++ with PoE passthrough camera)	**Power Input**	IEEE 802.3af/at/bt PoE, PoE+, PoE++ (37VDC — 57VDC), 600mA maximum per pair; 12VDC with 2.5A minimum current
Inputs	2x REX inputs 1x DPI input 1x AUX input	**USB Connection**	5V USB power source
DC Power Output	1x 12VDC @ 100mA maximum	**Connectivity**	Ethernet: 10/100/1000 Mbps RJ-45 for network connection USB 2.0
PoE Output	IEEE 802.3af/at PoE, PoE+ (37VDC - 57VDC), 600mA maximum		

Reader and relay ports

Door Reader Ports [1]	2x 12VDC @ 250mA Verkada / RS-485 ports 2x 12VDC @ 250mA 2x Wiegand ports	**Relay Outputs (Aux Ports)**	1x dry relay for auxiliary output with maximum pass-through power of 24VDC @ 2A (resistive load)
Relay Outputs	1x wet or dry relay Wet relay switch-selectable power: 12VDC operation 700mA max, 24VDC operation 350mA max		

Compliance and availability

Availability	USA, CAN, UK, EU	**Compliance & Safety**	FCC Part 15B Class B, ICES-003 Class B, CE, UKCA, VCCI, RCM, UL 294, CAN-ULC 60839-11-1, UL 62368-1, and CSA C22.2 No. 62368-1, IK06, compliant with requirements of UL 2043, indoor use only, to be used in controlled, protected, and/or restricted access areas. Installation and operation of the electronic access control system (EACS) shall not prevent the functionality of the emergency exit functions.

General

Dimensions	Length: 175.5mm / 6.9in Width: 55.3mm / 2.2in Height: 175.4mm / 6.9in	**Mounting Options**	Wall, ceiling, or Plenum mount
Weight	1.3kg / 2.9lbs	**Operating Temperature**	0°C - 50°C (32°F - 122°F), 5 - 85% Humidity
Included Accessories	T10 security Torx screwdriver, mounting hardware kit	**Warranty**	10 years

1. Note: each of the two reader ports can power a maximum of one reader with current consumption of at most 250mA.

Ordering Information

AC12 One-Door Controller

Model Number	Description	Cost (MSRP) USD
AC12-HW	AC12 One-Door Controller	$699

AC12 Accessories

Model Number	Description	Cost (MSRP) USD
ACC-POE-60WHS	ACC–POE–60W high surge (HS) PoE++ injector	$179
ACC-WA-30W	ACC–WA–30W/12V Switching Power Supply	$89

Access Control Cloud License (New/Capacity Increase)

Model Number	Description	Cost (MSRP) USD
LIC-AC-1Y-CAP	1-Year Door License, Capacity Increase	$249
LIC-AC-3Y-CAP	3-Year Door License, Capacity Increase	$599
LIC-AC-5Y-CAP	5-Year Door License, Capacity Increase	$999
LIC-AC-10Y-CAP	10-Year Door License, Capacity Increase	$1,999

Access Control Cloud License (Renewal)

Model Number	Description	Cost (MSRP) USD
LIC-AC-1Y-RNW	1-Year Door License, Renewal	$249
LIC-AC-3Y-RNW	3-Year Door License, Renewal	$599
LIC-AC-5Y-RNW	5-Year Door License, Renewal	$999
LIC-AC-10Y-RNW	10-Year Door License, Renewal	$1,999