

AC12-G

Cloud-managed one-door controller



Overview

The AC12-G one-door controller is a TAA & FY2019 NDAA compliant cloud-managed device with FIPS 140 validated encryption that brings access control to standalone doors. The AC12-G 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 that would otherwise be difficult to secure, while its low-profile design blends into most environments.

The AC12-G 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. The AC12-G can also be paired with a 60W PoE injector and 30W/12V switching power supply strip for increased installation flexibility.

Like all Verkada access controllers, the AC12 works out of the box and is easy to deploy and manage from Verkada Command, hosted in standard AWS or AWS GovCloud environments. Command hosted in AWS GovCloud is designated FedRAMP® Authorized (Moderate)¹.

Key features

Secure

The AC12-G supports key procurement and encryption standards as a TAA & FY2019 NDAA compliant device that incorporates FIPS 140 validated encryption.

Compact design

The AC12-G 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.

1. Federal, state, local, or tribal organizations, research institutions, federal contractors, government contractors, educational institutions, and non-profit institutions.



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Tech specs

**AC12-G**

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 and safety	For hardware certification information, please visit verkada.com/compliance
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General

Dimensions	Length: 6.9in / 175.5mm Width: 2.2in / 55.3mm Height: 6.9in / 175.4mm	Mounting options	Wall, ceiling, or plenum mount
Weight	2.9lbs / 1.3kg	Operating temperature	32°F - 122°F / 0°C - 50°C, 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.



Introduction

AC12-G power options

This chart outlines the available power options on the AC12. All power outputs and inputs of this controller are power-limited/class 3.

	PoE++	PoE++ in/out door	PoE+	PoE	DC only
Reader 1	12VDC, 250mA maximum	12VDC, 250mA maximum	12VDC, 250mA maximum	12VDC, 250mA maximum	12VDC, 250mA maximum
Reader 2	No	12VDC, 250mA maximum	12VDC, 250mA maximum	12VDC, 250mA maximum	12VDC, 250mA maximum
Wet lock	12VDC, 700mA maximum or 24VDC, 350mA maximum	12VDC, 700mA maximum or 24VDC, 350mA maximum	12VDC, 700mA maximum or 24VDC, 350mA maximum	12VDC, 500mA maximum or 24VDC, 250mA maximum	12VDC, 700mA maximum or 24VDC, 350mA maximum
USB	No	5VDC, 250mA maximum	5VDC, 250mA maximum	No	5VDC, 250mA maximum
DC power out	12VDC, 100mA maximum	12VDC, 100mA maximum	12VDC, 100mA maximum	No	12VDC, 100mA maximum
PoE out	Up to 30W	Up to 27W	Connectivity only, no power	Connectivity only, no power	Connectivity only, no power



ACC-WA-30W Switching DC Wall Adaptor

A switching power supply power strip providing 30 watts of power for the AC12-G.

[Datasheet >](#)



ACC-POE-60W PoE++ Injector

A high surge PoE++ injector that converts a power cable and an Ethernet cable to a single PoE ++ port with up to 60W of power and 6kV 100kHz Transient Ring Wave.

[Datasheet >](#)



Ordering information

Access Control hardware pricing

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
AC12-HW-G	AC12-G 1 Door Controller for Government	\$999	\$999
ACC-WA-30W	ACC-WA-30W/12V Switching DC Wall Adapter	\$89	\$89
ACC-POE-60WHS	ACC-POE-60W PoE++ injector, high surge protection PoE++ injector	\$179	\$179

AWS GovCloud software license pricing (new/capacity increase)

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-AC-1Y-CAP-G	Verkada 1-Year Door License for Government, Capacity Increase	\$299	\$299
LIC-AC-3Y-CAP-G	Verkada 3-Year Door License for Government, Capacity Increase	\$749	\$749
LIC-AC-5Y-CAP-G	Verkada 5-Year Door License for Government, Capacity Increase	\$1,249	\$1,249
LIC-AC-10Y-CAP-G	Verkada 10-Year Door License for Government, Capacity Increase	\$2,499	\$2,499

AWS GovCloud software license pricing (renewal)

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-AC-1Y-RNW-G	Verkada 1-Year Door License for Government, Renewal	\$299	\$299
LIC-AC-3Y-RNW-G	Verkada 3-Year Door License for Government, Renewal	\$749	\$749
LIC-AC-5Y-RNW-G	Verkada 5-Year Door License for Government, Renewal	\$1,249	\$1,249
LIC-AC-10Y-RNW-G	Verkada 10-Year Door License for Government, Renewal	\$2,499	\$2,499



Ordering information

Access Control software license pricing (new/capacity increase)

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-AC-1Y-CAP	Verkada 1-Year Door License, Capacity Increase	\$249	\$249
LIC-AC-3Y-CAP	Verkada 3-Year Door License, Capacity Increase	\$599	\$599
LIC-AC-5Y-CAP	Verkada 5-Year Door License, Capacity Increase	\$999	\$999
LIC-AC-10Y-CAP	Verkada 10-Year Door License, Capacity Increase	\$1,999	\$1,999

Access Control software license pricing (renewal)

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-AC-1Y-RNW	Verkada 1-Year Door License, Renewal	\$249	\$249
LIC-AC-3Y-RNW	Verkada 3-Year Door License, Renewal	\$599	\$599
LIC-AC-5Y-RNW	Verkada 5-Year Door License, Renewal	\$999	\$999
LIC-AC-10Y-RNW	Verkada 10-Year Door License, Renewal	\$1,999	\$1,999