

# AXIS A1210 Network Door Controller

## Compact edge-based one door controller

Suitable for installation anywhere, this compact, competitively priced product offers fast and easy installation on walls. Plus, it's suitable for plenum spaces. It includes everything needed to control one door all powered by one PoE cable. With intelligence on the edge, it can internally handle all tasks related to door access—even if the network is down. Fully integrated within Axis end-to-end solutions, this scalable product is optimized for both small and large installations and supports flexible authentication using different types of credentials. Furthermore, with built-in cybersecurity features, it prevents unauthorized access and safeguards your system.

- > **Complete control for one door**
- > **Compact form factor**
- > **Intelligence on the edge**
- > **Built-in cybersecurity features**
- > **Fully integrated within Axis end-to-end solutions**



# AXIS A1210 Network Door Controller

## Door controller

### Readers

Up to 2 OSDP readers (multi-drop) or 1 Wiegand reader per controller  
Up to 16x AXIS A4612 Network Bluetooth® Reader  
OSDP Secure Channel supported  
OSDP Secure Profile verified

### Doors

1 wired door  
Support for integrating up to 16x ASSA ABLOY Aperio® using the AH30 Communication Hub

### Credentials

Third-party access management software depending on server capacity  
Up to 250 000 credentials stored locally

### Event buffer

Qualified for up to 250 000 events stored locally

## Power

**Power in:** 12 V DC, max 36 W, or  
Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4  
**Power out lock:** 12/24 V, jumper configurable  
Powered by PoE: max 900 mA at 12 V DC, max 450 mA at 24 V DC  
Powered by DC: max 1600 mA at 12 V DC, max 800 mA at 24 V DC  
**Power out reader:** 12 V DC, max 500 mA  
**Total power budget for peripheral devices (locks, readers etc.):** 2100 mA at 12 V if powered by DC, 1400 mA at 12 V if powered by PoE Class 4

## I/O interface

### Reader

**Power output:** 12 V DC, max 500 mA  
**Data:** OSDP, Wiegand  
**I/O:** Three open drain outputs, max 30 V, 100 mA each  
One supervised input

### Door

**Power output:** 12/24 V DC, jumper configurable  
**I/O:** REX and door position sensor supervised inputs  
**Output relay:** 1x relay NO/NC, max 2 A at 30 V DC, resistive

### Auxiliary

**DC output:** 12 V, 50 mA  
**I/O:** Two ports, configurable inputs or outputs

### External

External tamper supervised input  
Alarm supervised input

### Supervised input

Configurable input for reader interface, door REX input, door position sensor input, and AUX  
Programmable end-of-line resistors, 1 K, 2.2 K, 4.7 K and 10 K, 1 %, ¼ watt standard  
One unsupervised input dedicated for cabinet tamper

## Cable requirements

**Wire size for connectors:** CSA: AWG 28–16, CUL/UL: AWG 30–14  
**DC power and relay:** AWG 18–16  
**Ethernet and PoE:** STP CAT 5e or higher  
**Reader data (RS485):** 1 twisted pair with shield, 120 ohm impedance, qualified for up to 1000 m (3281 ft)  
**Reader data (Wiegand):** Qualified for up to 150 m (500 ft)  
**Reader powered by controller (RS485):** AWG 20–16, qualified for up to 200 m (656 ft)<sup>1</sup>  
**Reader powered by controller (Wiegand):** AWG 20–16, qualified for up to 150 m (500 ft)<sup>2</sup>  
**I/Os as inputs:** Qualified for up to 200 m (656 ft)

## System on chip (SoC)

### Memory

512 MB RAM, 2 GB Flash

1. Depending on the reader's voltage and current input range. Evaluated with A4020-E and A4120-E.  
2. Depending on the reader's voltage and current input range.

## Network

### Network protocols

IPv4, IPv6, HTTP, HTTPS<sup>3</sup>, TLS<sup>3</sup>, QoS Layer 3 DiffServ, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, SOCKS, SSH, MQTT v3.1.1, Syslog

## System integration

### Application Programming Interface

Open API for software integration, including VAPIX®, metadata and AXIS Camera Application Platform (ACAP); specifications at [axis.com/developer-community](https://axis.com/developer-community). ACAP includes Native SDK. One-click cloud connection

### Video management systems

Compatible with AXIS Camera Station, video management software from Axis' Application Development Partners available at [axis.com/vms](https://axis.com/vms)

### Tamper detection

Removal of unit cover/tamper front  
Reader tamper  
Tilting, vibration

## Approvals

### Product markings

UL/cUL, KC, VCCI

### Supply chain

TAA compliant

### EMC

EN 55035, EN 55032 Class B, EN 61000-3-2, EN 61000-3-3  
Korea: KC KN32 Class B, KC KN35

### Safety

IEC/EN/UL 62368-1, IEC/EN 60950-1, UL 2043, UL 294

## Cybersecurity

### Edge security

**Software:** Signed firmware, brute force delay protection, digest authentication, password protection  
**Hardware:** Axis Edge Vault cybersecurity platform  
Secure element (CC EAL 6+), secure keystore, secure boot

### Network security

IEEE 802.1X (EAP-TLS)<sup>3</sup>, IEEE 802.1AR, HTTPS/HSTS<sup>3</sup>, TLS v1.2/v1.3<sup>3</sup>, Network Time Security (NTS), X.509 Certificate PKI, IP address filtering

### Documentation

*AXIS OS Hardening Guide*

*Axis Vulnerability Management Policy*

*Axis Security Development Model*

To download documents, go to [axis.com/support/cybersecurity/resources](https://axis.com/support/cybersecurity/resources)

To read more about Axis cybersecurity support, go to [axis.com/cybersecurity](https://axis.com/cybersecurity)

## General

### Casing

Aluminum  
Color: white NCS S 1002-B

### Mounting

Wall mount  
DIN rail mount

### Connectors

Network: Shielded RJ45 10BASE-T/100BASE-TX/  
1000BASE-T PoE

I/O: Terminal blocks for DC power, inputs/outputs, RS485/Wiegand, relay. Detachable and color coded connectors for ease of installation.

Wire size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14

### Operating conditions

0 °C to 70 °C (32 °F to 158 °F)  
Humidity 20–85% RH (non-condensing)

### Storage conditions

–40 °C to 70 °C (–40 °F to 158 °F)

### Dimensions

For the overall product dimensions, see the dimension drawing in this datasheet.

3. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](https://openssl.org)), and cryptographic software written by Eric Young ([eyay@cryptsoft.com](mailto:eyay@cryptsoft.com)).

## Weight

645 g (1.4 lb)

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## Box content

door controller, installation guide, connector kit (mounted), grounding kit, cable ties

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## Optional accessories

AXIS A9910 I/O Relay Expansion Module

AXIS TA4711 Access Card

AXIS TA4712 Key Fob

AXIS TA1801 Top Cover

AXIS TA1901 DIN Rail Clip

AXIS TA1902 Access Control Connector Kit<sup>4</sup>

AXIS TQ1808-VE Surveillance Cabinet<sup>4</sup>

AXIS 30 W Midspan<sup>4</sup>

AXIS 30 W Midspan AC/DC<sup>4</sup>

AXIS T8006 PS12<sup>4</sup>

For more accessories, go to [axis.com/products/axis-a1210](https://axis.com/products/axis-a1210)

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## System tools

AXIS Site Designer, AXIS Device Manager, product selector, accessory selector

Available at [axis.com](https://axis.com)

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## Languages

English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese

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## Warranty

5-year warranty, see [axis.com/warranty](https://axis.com/warranty)

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## Part numbers

Available at [axis.com/products/axis-a1210#part-numbers](https://axis.com/products/axis-a1210#part-numbers)

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## Sustainability

### Substance control

PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709

RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018

REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see [echa.europa.eu](https://echa.europa.eu)

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### Materials

Screened for conflict minerals in accordance with OECD guidelines

To read more about sustainability at Axis, go to [axis.com/about-axis/sustainability](https://axis.com/about-axis/sustainability)

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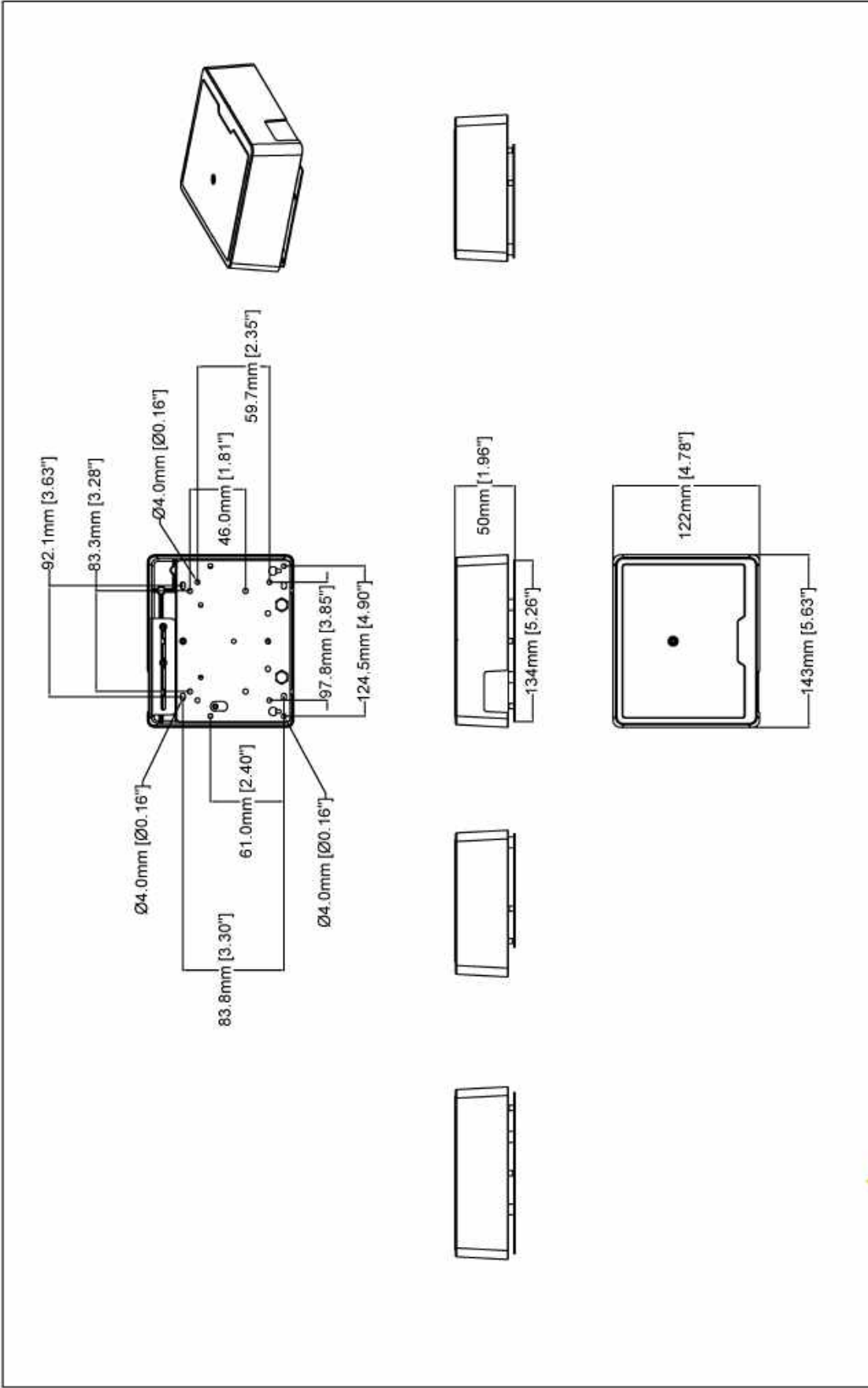
## Environmental responsibility

[axis.com/environmental-responsibility](https://axis.com/environmental-responsibility)

Axis Communications is a signatory of the UN Global Compact, read more at [unglobalcompact.org](https://unglobalcompact.org)

4. For UL 294-certified installations, see the installation guide.

Dimension drawing



|            |      |               |            |
|------------|------|---------------|------------|
| Revision   | v.01 | Revision date | 2022-11-16 |
| Paper size | A4   | Release date  | 2022-11-16 |
| Created by | MF   | Scale         | 1:4        |

## Highlighted capabilities

### Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, **secure boot** ensures that a device can boot only with **signed OS**, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And the **secure keystore** is the critical building-block for protecting cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc.) against malicious extraction in the event of a security breach. The secure keystore and secure connections are provided through a Common Criteria or FIPS 140 certified hardware-based cryptographic computing module.

To read more about Axis Edge Vault, go to [axis.com/solutions/edge-vault](https://axis.com/solutions/edge-vault).

For more information, see [axis.com/glossary](https://axis.com/glossary)