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)[1]
Reader powered by controller (Wiegand): AWG 20–16, qualified for up to 150 m (500 ft)[2]
I/Os as inputs: Qualified for up to 200 m (656 ft)

System on chip (SoC)

Memory
512 MB RAM, 2 GB Flash

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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[3], TLS[3], 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*. 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*

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)[3], IEEE 802.1AR, HTTPS/HSTS[3], TLS v1.2/v1.3[3], 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*
To read more about Axis cybersecurity support, go to *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), and cryptographic software written by Eric Young (eay@cryptsoft.com).*

Weight

645 g (1.4 lb)

Box content

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

Optional accessories

AXIS TA4711 Access Card
AXIS TA4712 Key Fob
AXIS TA1801 Top Cover
AXIS TA1901 DIN Rail Clip
AXIS TA1902 Access Control Connector Kit[4]
AXIS TQ1808-VE Surveillance Cabinet[4]
AXIS 30 W Midspan[4]
AXIS 30 W Midspan AC/DC[4]
AXIS T8006 PS12[4]
For more accessories, go to *axis.com/products/axis-a1210*

System tools

AXIS Site Designer, AXIS Device Manager, product selector, accessory selector
Available at *axis.com*

Languages

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

Warranty

5-year warranty, see *axis.com/warranty*

Part numbers

Available at *axis.com/products/axis-a1210#part-numbers*

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*

Materials

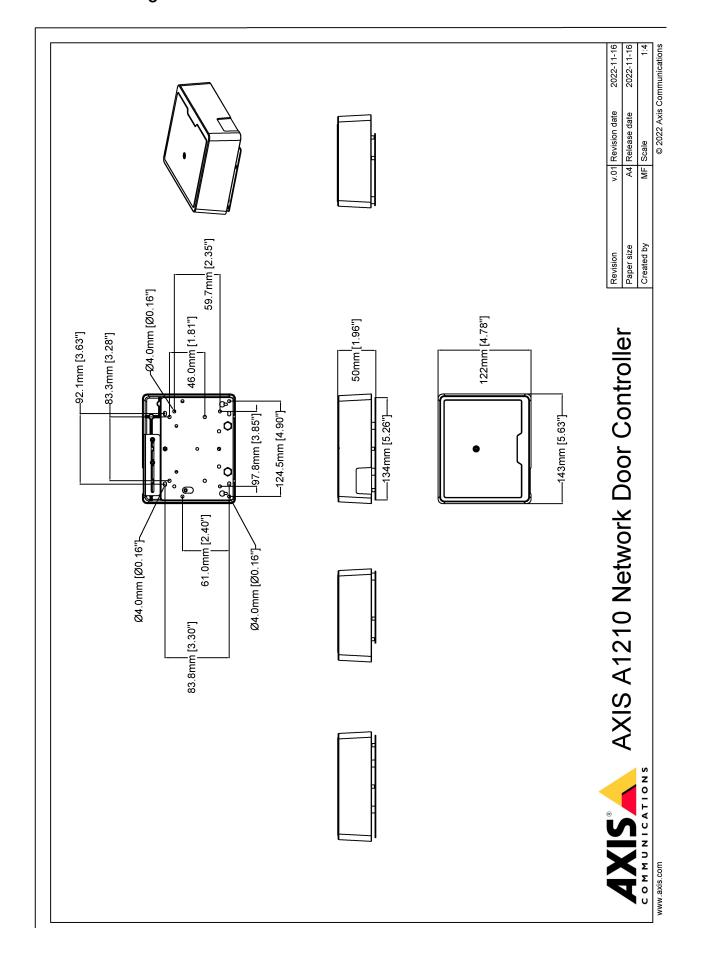Screened for conflict minerals in accordance with OECD guidelines
To read more about sustainability at Axis, go to *axis.com/about-axis/sustainability*

Environmental responsibility

axis.com/environmental-responsibility
Axis Communications is a signatory of the UN Global Compact, read more at *unglobalcompact.org*

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4. *Not intended for UL 294*

Dimension drawing

92.1mm [3.63"]
83.3mm [3.28"]
Ø4.0mm [Ø0.16"]
46.0mm [1.81"]
59.7mm [2.35"]
97.8mm [3.85"]
124.5mm [4.90"]
Ø4.0mm [Ø0.16"]
61.0mm [2.40"]
Ø4.0mm [Ø0.16"]
83.8mm [3.30"]
50mm [1.96"]
134mm [5.26"]
122mm [4.78"]
143mm [5.63"]

AXIS A1210 Network Door Controller

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

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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.*

For more information, see *axis.com/glossary*

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