

AXIS A1001 Network Door Controller

Open and flexible—powered by IP

AXIS A1001 Network Door Controller is a non-proprietary, open, and IP-based access controller suitable for both smaller installations and advanced mid-size systems. AXIS A1001 comes with built-in software for basic access management and is also open for third-party software. This allows the unit to be integrated with other systems such as video surveillance, intrusion detection and time and attendance. The controller is powered over Ethernet and can also power connected equipment, minimizing the need for extra cabling. AXIS A1001 is a smart independent device that is installed by each door, making the solution scalable. Using open standards, it is also future-proof.

- > **Based on Axis open platforms**
- > **ONVIF Profile A and C compliant**
- > **UL 294 approved**
- > **Supports most reader types**
- > **Ease of installation and PoE support**

AXIS A1001 Network Door Controller

Door controller

Readers

Up to 2 readers per controller (Wiegand, RS485 (OSDP)) with supported card formats.
Integration with ASSA ABLOY Aperio® wireless lock technology.
Integration with SimonsVoss SmartIntego wireless lock technology.

Doors

1–2 wired doors or 1 wired door together with a single wireless lock gateway per controller¹

Credentials

Up to 50 000 with third-party access management software depending on server capacity, or up to 400 with AXIS Entry Manager.

Event history

30 000 First In, First Out (FIFO) locally per controller using third-party access management solution.
30 000 First In, First Out (FIFO) per system using AXIS Entry Manager.

Access schedules

Unlimited or third-party software dependent

I/O interface

I/O functionality

Reader I/O: DC output: 2x 12 V DC output max 300 mA; 2x 4 configurable inputs/outputs, (Digital input: 0 to max 40 V DC, Digital output: 0 to max 40 V DC, Open drain, max 100 mA)

Reader data: RS485 full duplex, RS485 half duplex, Wiegand

Auxiliary: 1x 3.3 V DC output, max 100 mA
2x configurable inputs/output (Digital input: 0 to max 40 V DC, Digital output: 0 to max 40 V DC, Open drain, max 100 mA)

Door connectors: 2x 2 input for door monitors and REX (Digital input: 0 to max 40 V DC)

Pre-configured for readers and door monitors, Input trigger, Output toggle/pulse

Network

Security

Password protection, IP address filtering, HTTPS² encryption, IEEE 802.1X network access control, Digest authentication, User access log

Network protocols

IPv4, HTTP, HTTPS², TLS², QoS layer 3 DiffServ, FTP, SMTP, Bonjour, UPnPTM, SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS

System integration

Application Programming Interface

Open API for software integration, including VAPIX®, specifications at www.axis.com
AXIS Video Hosting System (AVHS) with One-Click Connection
ONVIF Profile C and ONVIF Profile A, specification at www.onvif.org

Supported products

AXIS A9188 Network I/O Relay Module
AXIS A4010-E Reader
AXIS A4011-E Reader
AXIS Access Card 1K
Aperio RS485 Communication Hub
SmartIntego TCP/IP GatewayNode

Events & alarms

Tamper detection

Removal of unit cover/tamper front
Removal of unit from wall/tamper back, Reader tamper

Event log

Configurable by time and topic, Alarm acknowledgement

Event actions

Notification via email, HTTP and TCP, External output port
Status LED

1. Power consumption dependent; max load for locks, readers and other equipment is 7.5 W with PoE and 14 W with 10–30 V DC.

2. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>), and cryptographic software written by Eric Young (ey@cryptsoft.com).

Event triggers

Tamper detection, Power loss, Network lost, Configuration, Door, Event logger, Hardware, Input signal, Schedule, System, Time

General**Casing**

Plastic

Software

Configuration and basic access control management through Internet Explorer, Firefox, Chrome, or Safari
Supported languages: English, French, Italian, German and Spanish

Memory

256 MB RAM, 500 MB Flash

Power

Power in: 10–30 V DC, max 26 W or
Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3
Power out & relay: 1x 12 V DC, max 500 mA
1x solid state relay 30 V DC, max 700 mA
Power out lock: 2x 12 V DC, max 500 mA

Total power budget if powered by DC: 1166 mA at 12 V for peripheral devices (locks, readers etc.)

Total power budget if powered by PoE: 625 mA at 12 V for peripheral devices (locks, readers etc.)

Connectors

RJ45 10BASE-T/100BASE-TX Terminal blocks: DC power, 10 Inputs/Outputs, RS485/Wiegand, Relay, Cable size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14

Operating conditions

0°C to 50°C (32 F to 122 F)
Humidity 20–85% RH (non-condensing)

Approvals

EN 55022 Class B, EN 50130-4, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B, ICES-003 Class B, C-tick AS/NZS CISPR22 Class B, VCCI Class B, IEC/EN/UL 60950-1, UL 294, UL 2043, EN 50581

Dimensions

45.5 x 180 x 180 mm (1.8 x 7.1 x 7.1 in)

Weight

500 g (1.1 lb)

Included accessories

Connector kit, Cable ties, Installation Guide

Optional accessories

AXIS T8120 Midspan 15 W, AXIS T8128 PoE Splitter 24 V (requires 30 W midspan), AXIS T8129 PoE Extender Mains adaptor 24 V DC, AXIS T98A15-VE Surveillance Cabinet³

Warranty

5-year warranty, see axis.com/warranty

3. In outdoor installations combining AXIS A1001 and AXIS T98A15-VE, the allowed maximum voltage is 30 V DC.