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 Aperto® 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 controller2

**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) per controller

**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, HTTPS® encryption, IEEE 802.1X network access control, Digest authentication, User access log

**Supported protocols**
IPv4, HTTPS, HTTP2, TLS2, QoS layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP®, SNMP-v1/v2/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, 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

### 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: CA: AWG 28–16, CUL: 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 adapter 24 V DC, AXIS T89A15-VE Surveillance Cabinet

**Warranty**
Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty

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