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 enterprise 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

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Door controller

Readers	Up to 2 readers per controller (Wiegand, RS485 (OSDP)) with supported card formats. Integration with ASSA ABLOY Aperio® wireless lock technology.
Doors	1–2 doors per controller[a]
Credentials	Firmware version 1.50.0 or later: Up to 50 000 with third-party access management software depending on server capacity. Firmware versions earlier than 1.50.0: Up to 15 000 with third-party access management software depending on server capacity
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[b] encryption, IEEE 802.1X network access control, Digest authentication, User access log
Supported protocols	IPv4, HTTP, HTTPS[b], TLS[b], QoS layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP™, SNMPv1/v2c/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: 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 Cabinet[c]
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see *www.axis.com/warranty*

a. *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.*
b. *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 (eay@cryptsoft.com).*
c. *In outdoor installations combining AXIS A1001 and AXIS T98A15-VE, the allowed maximum voltage is 30 V DC.*

Environmental responsibility:

www.axis.com/environmental-responsibility