

AXIS A1001 Network Door Controller

Open and flexible—powered by IP



- > Open platform
- > PoE support
- > Ease of installation
- > Support most reader types
- > Scalable and future-proof
- > Plenum-rated

AXIS A1001 Network Door Controller is an open, non-proprietary platform for access management that meets the requirements for advanced enterprise systems as well as smaller installations. The use of IP, standard IT equipment and the powerful Application Programming Interface (API) makes AXIS A1001 a scalable and future-proof solution that can easily integrate with other systems and components.

AXIS A1001 Network Door Controller comes with a built-in software for basic access management. It is open for third-party software, allowing the unit to be integrated with solutions provided by Axis partners.

The controller is a smart independent device that is installed by each door and data is automatically synchronized between the controllers in the system. It will continue its normal operation and buffer events locally if there is a network failure.

AXIS A1001 supports Power over Ethernet, which eliminates the need for separate power cables to door accessories and other proprietary data cables.

The controller's color coded connectors and the configuration wizard enables fail-safe and effective installa-

tions. The controller supports most reader types and is fitted with configurable input/output ports and controllable power outputs for external equipment such as door locks and positioning sensors.

Adding new controllers to the system is easy. The door controller, as well as all other equipment can be reused if a more advanced solution is requested.

The controller supports advanced security and network management, including fault/tamper detection. The support for Uninterruptible Power Supply (UPS) enables power to be maintained in the event of a power outage and eliminates the need for battery back-up at each door. The plenum-rated controller is designed for wall and ceiling mount.



Technical Specifications - AXIS A1001 Network Door Controller

Models	AXIS A1001 Network Door Controller	
Door controller		
Readers	Up to 2 readers per controller (Wiegand, RS485 (OSDP)) with supported card formats	
Doors	1–2 doors per controller ^a	
Credentials	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	
Digital I/O		
I/O interface	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)	
I/O functionality	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 TM , 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 [®] and AXIS Camera Application Platform, specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-Click Camera Connection ONVIF Profile C, specification at www.onvif.org	
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, 4 Gbit 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 Et 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	
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 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 (ey@cryptsoft.com).
 c. In outdoor installations combining AXIS A1001 and AXIS T98A15-VE, the allowed maximum voltage is 30 V DC.

More information is available at www.axis.com

Dimensions & connectors

I/O interface

1. Reader data

2. Reader I/O

3. Door

4. Auxiliary

External power inputs

5. Power (10–30 V DC)

6. Network (PoE)

Power outputs

7. Power lock

8. Power & Relay

