AXIS A1601 Network Door Controller
Advanced access management in midsized and large systems

With door controllers from Axis, you install one smart, independent device by each door to create a scalable access control system. The open platform allows you to mix and match best-of-breed software and hardware, and enables easy integration with other systems such as video surveillance, intrusion detection, and time and attendance. AXIS A1601 Network Door Controller is ideal for advanced access management using a partner software, in mid-sized and large, multi-site installations. It has a powerful processor, expanded storage and memory, relays, and I/O ports. AXIS A1601 is powered by PoE+ and can also power connected equipment.

> Based on Axis open platforms
> ONVIF Profile A and C compliant
> UL 293 and UL 294 certified
> Supports most reader types
> Ease of installation and PoE+ support
**AXIS A1601 Network Door Controller**

**General**
- **Casing**: Aluminum
- **Color**: white NCS S 1002-B
- **For repainting instructions of skin cover or casing and impact on warranty, contact your Axis partner.**

**Sustainability**
- **PVC free**

**Memory**
- **512 MB RAM, 1 GB Flash**

**Power**
- **Power in**: 10.5–28 V DC, max. 36 W, or Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4.
- **12 V battery as backup.**
- **Relay**: 2x relay NO/NC, max 2 A DC
- **Power out lock**: 2x 12/24 V DC, max 24 W
- **Total power budget for peripheral devices (locks, readers etc.):** 2100 mA at 12 V if powered by DC, 1300 mA at 12 V if powered by PoE Class 4

**Connectors**
- **RJ45 10BASE-T/100BASE-TX PoE**

**Operating conditions**
- **-40 °C to 55 °C (-40 °F to 131 °F)**
- **Humidity 20–85% RH (non-condensing)**

**Storage conditions**
- **-40 °C to 55 °C (-40 °F to 131 °F)**

**Approvals**
- **EMC**
  - EN 55032 Class A, EN 50130–4, EN 61000–3–2, EN 61000–3–3, EN 55024, EN 61000–6–1, EN 61000–6–2
- **Safety**
  - IEC/EN/UL 62368–1, UL 2043, UL 294, UL 293
  - Environment EN 50581
  - Others
  - CSA C22.2 No. 205–1983

**Dimensions**
- **175 x 175 x 60 mm (6 7/8 x 6 7/8 x 2 3/8 in)**

**Weight**
- **1.2 kg (2.6 lb)**

**Included accessories**
- Installation guide, mating connectors (mounted), grounding kit, cable ties

**Optional accessories**
- **AXIS Access Card 1K**
- **AXIS T8133 Midspan 30 W 1-port**
- **AXIS T8128 PoE Splitter 24 V (requires 30 W midspan)**
- **AXIS T8128 PoE Extender**
- **AXIS T88A15–VE Surveillance Cabinet**
  - For more accessories, see www.axis.com

**Languages**
- **English, German, French, Spanish, Italian, Polish, Dutch**

**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 24 W with PoE+ and 30 W with 10.5–28 V DC
b. 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).
c. In outdoor installations combining AXIS A1601 and AXIS T88A15–VE, the maximum allowed voltage is 30 V DC

**Environmental responsibility:** axis.com/environmental-responsibility

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**Door controller**

- **Readers**: Up to 2 readers, RS485 (OSDP)/Wiegand, with supported card formats. OSDP Secure Channel supported. Integration with ASSA ABLOY Aperio® and Simons Voss SmartIntego wireless lock technologies.
- **Doors**: 1–2 doors
- **Credentials**: Unlimited with third-party access management software depending on server capacity. Up to 70 000 credentials stored locally in a fallback scenario where connection to partner software is temporarily lost.
- **Event history**: 100 000 first in, first out (FIFO)
- **Access schedules**: Unlimited or third-party software dependent

**I/O interface**

- **Reader I/O**
  - DC output: 2x 12 V DC output, max 486 mA; 2x2 configurable supervised inputs/outputs (digital input: 0 to max 30 V DC; digital output: 0 to max 30 V DC, open drain max 100 mA)
  - **Reader data**
    - OSDP/RS485 half duplex, Wiegand
  - **Auxiliary**
    - DC output: 1x 12 V DC output, max 200 mA, 4x configurable inputs/outputs (digital input: 0 to max 30 V DC; digital output: 0 to max 30 V DC, open drain max 100 mA)
  - **Door connections**
    - 2x2 supervised inputs for door monitors and REX (digital input: 0 to max 30 V DC)
    - **External**
      - 2x configurable inputs/outputs for auxiliary equipment (digital input: 0 to max 30 V DC; digital output: 0 to max 30 V DC, open drain max 100 mA)

**Network Security**
- **Password protection, IP address filtering, HTTPS® encryption,**
- **IEEE 802.1x® network access control, digest authentication,**
- **user access log, centralized certificate management**

**Supported protocols**
- **IP, IPv6, HTTP, HTTPS®, SSL/TLS®, QoS Layer 3 DiffServ, FTP, SSH, CIFS/SMB, SMTP,Bonjour, UPnP®, SNMP v1/v2c/v3 (MB-IIB), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH**

**System integration**
- **Application Programming Interface**
  - Open API for software integration, including VAPIX®; specifications at www.axis.com
  - ONVIF Profile C and ONVIF® Profile A, specification at onvif.org
- **Integration-ready**
  - **AXIS A91 Network I/O Relay Module Series**
  - **AXIS A4010-E Reader**
  - **AXIS A4011-E Reader**
  - **ASSA Aperio RS485 Communication Hub**
  - **SimonsVoss SmartIntego TCP/IP GatewayNode**

**Events**
- **Tamper detection**: Removal of unit cover/tamper front
  - Reader tamper
  - Tilting, vibration
- **Event log**: Configurable by time and topic
- **Event triggers**: Tamper detection, power loss, network loss, configuration, door, event logger, hardware, input signal, schedule, system, time, virtual inputs through API
- **Event actions**: Notification: email, HTTP, HTTPS, TCP and SNMP trap
  - External output activation, status LED

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