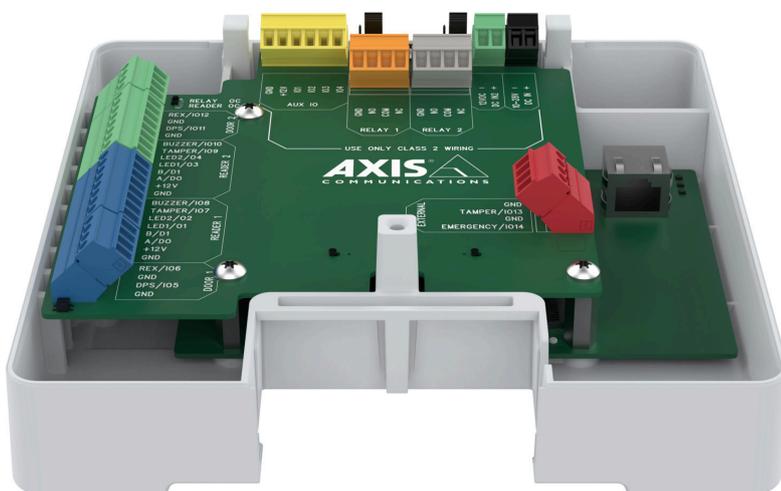


# AXIS A1610-B Network Door Controller

## Barebone edge-based two door controller

This barebone door controller includes everything needed to control two doors – all powered by one PoE cable. Sold without a top cover, it offers easy installation. Thanks to intelligence on the edge, it can internally handle all tasks related to door access – even if the network is down. This scalable product is fully integrated within Axis and partner solutions and suitable for both small and large installations. It includes six auxiliary I/Os for easy integration. Plus, it supports flexible authentication using different types of credentials. Furthermore, built-in cybersecurity features prevent unauthorized access and safeguard your system.

- > [Barebone unit for easy installation](#)
- > [Advanced control for two doors](#)
- > [Intelligence on the edge](#)
- > [Built-in cybersecurity features](#)
- > [Integrated with Axis and 3<sup>rd</sup> party solutions](#)



# AXIS A1610-B Network Door Controller

## Door controller

### Readers

Up to 4x OSDP readers, or 2x Wiegand reader  
Up to 16x AXIS A4612 Network Bluetooth® Reader  
OSDP Secure Channel supported, OSDP Secure Profile verified

### Doors

1-2 wired doors or 1 wired door together with a single wireless lock gateway per controller  
Support for elevator control for 16 floors with A9910<sup>1</sup>  
Support for integrating up to 16x ASSA ABLOY Aperio®<sup>2</sup> using the AH30 Communication Hub

### Credentials

Third-party access management software depending on server capacity<sup>3</sup>. Up to 250 000 credentials stored locally.

### Event buffer

Qualified for up to 250 000 events stored locally

## Power

**Power in:** 10.5–28 V DC, max 36 W (max 2.4 A at 10.5 V, max 0.9 A at 28 V), or Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4

12 V DC as backup

**Power out lock:** 2x 12/24 V DC

With PoE+: max 900 mA at 12 V DC, max 410 mA at 24 V DC in total

With DC in: max 1800 mA at 12 V DC, max 750 mA at 24 V DC in total

**Power out reader:** 2x 12 V DC, max 500 mA in total

**Auxiliary DC output:** 1x 12 V DC output, max 200 mA

**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

## I/O interface

### Reader

**Power output:** 2x 12 V DC, max 500 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)

**Data:** OSDP/RS485 half duplex, Wiegand

### Door

**Power output:** 12/24 V DC, jumper configurable

**Output relay:** 2x relay NO/NC, max 2 A at 30 V DC, resistive

2x2 supervised inputs for door monitors and REX (digital input: 0 to max 30 V DC)

### 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)

### 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)

### Supervised input

Configurable input for reader interface, door REX input, door position sensor input, and AUX

Programmable end-of-line resistors, 1 K, 2.2 K, 4.7 K and 10 K, 1 %, ¼ watt standard

## Cable requirements

**Wire size for connectors:** CSA: AWG 28–16, CUL/UL: AWG 30–14

**DC power and relay:** AWG 18–16

**Ethernet and PoE:** STP CAT 5e or higher

**Reader data (RS485):** 1 twisted pair with shield, qualified for up to 1000 m (3281 ft)

**Reader data (Wiegand):** Qualified for up to 150 m (500 ft)

**Reader powered by controller (RS485):** AWG 20–16, qualified for up to 200 m (656 ft)<sup>4</sup>

**Reader powered by controller (Wiegand):** AWG 20–16, qualified for up to 150 m (500 ft)<sup>5</sup>

**I/Os as inputs:** Qualified for up to 200 m (656 ft)

1. From version 12.6.102.1

2. Requires a license

3. For UL 294-certified installations, see the installation guide.

4. Depending on the reader's voltage and current input range. Evaluated with A4020-E and A4120-E.

5. Depending on the reader's voltage and current input range.

## System on chip (SoC)

### Memory

512 MB RAM, 2048 MB Flash

## Network

### Security

Password protection, IP address filtering, HTTPS<sup>6</sup> encryption, IEEE 802.1x (EAP-TLS)<sup>6</sup> network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, secure boot  
Axis Edge Vault with Axis device ID, secure keystore (CC EAL6+ certified hardware protection of cryptographic operations, certificates and keys)

### Network protocols

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS<sup>6</sup>, HTTP/2, TLS<sup>6</sup>, QoS Layer 3 DiffServ, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP<sup>®</sup>, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTCP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, NTCIP, SIP, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)

## Events

### Tamper detection

Removal of unit cover/tamper front  
Reader tamper  
Tilting, vibration

## 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

### Connectors

RJ45 10BASE-T/100BASE-TX PoE

Terminal blocks: DC power, 14 inputs/outputs, RS485/Wiegand, relay, battery. Detachable and color coded connectors for ease of installation.

### Operating conditions

-40 °C to 55 °C (-40 °F to 131 °F)

Conditional maximum temperature<sup>7</sup>: 70 °C (158°F)

UL 294: 0 °C to 55 °C (32 °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 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), VCCI Class A, RCM AS/NZS CISPR 32 Class A, KS C 9832 Class A, KS C 9835

#### Safety

IEC/EN/UL 62368-1 ed. 3,

CAN/CSA C22.2 No. 62368-1 ed. 3, UL 294

#### Environment

EN 50581

### Dimensions

175 x 175 x 50 mm (6.9 x 6.9 x 2.0 in)

### Weight

800 g (1.8 lb)

### Mounting

Cabinet mount<sup>8</sup>

DIN rail mount<sup>8</sup>

Stack mount<sup>8</sup>

### Included accessories

Installation guide, mating connectors (mounted), grounding kit, cable ties

### Optional accessories

AXIS A9910 I/O Relay Expansion Module

AXIS TA4711 Access Card

AXIS TA4712 Key Fob

AXIS TA1802 Top Cover<sup>9</sup>

AXIS TA1901 DIN Rail clip<sup>9</sup>

AXIS TA1902 Access Control Connector Kit<sup>9</sup>

AXIS T98A15-VE Surveillance Cabinet<sup>9</sup>

AXIS 30 W Midspan<sup>9</sup>

AXIS 30 W Midspan AC/DC<sup>9</sup>

AXIS T8006 PS12<sup>9</sup>

For more accessories, see [www.axis.com](http://www.axis.com)

6. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([openssl.org](http://openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

7. Only DC IN as a power source. The lock(s) should be externally powered. Onboard reader power with max 500 mA at 12 V DC.

8. Shall be mounted in UL listed UL 294 enclosure with tamper switch.

9. For UL 294-certified installations, see the installation guide.

## Languages

English, German, French, Spanish, Italian, Russian,  
Simplified Chinese, Japanese, Korean, Portuguese,  
Polish, Traditional Chinese

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## Warranty

5-year warranty, see [axis.com/warranty](https://www.axis.com/warranty)