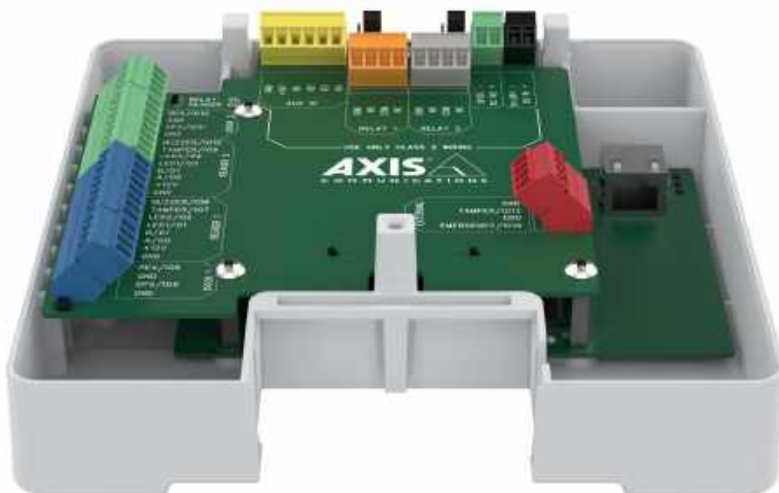


AXIS A1610-B Network Door Controller

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 3rd 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 A9910¹
Support for integrating up to 16x ASSA ABLOY Aperio®² using the AH30 Communication Hub

Credentials

Third-party access management software depending on server capacity³. 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)⁴

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

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, HTTPS⁶ encryption, IEEE 802.1x (EAP-TLS)⁶ 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, HTTPS⁶, HTTP/2, TLS⁶, QoS Layer 3 DiffServ, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP[®], 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 temperature⁷: 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 mount⁸

DIN rail mount⁸

Stack mount⁸

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 Cover⁹

AXIS TA1901 DIN Rail clip⁹

AXIS TA1902 Access Control Connector Kit⁹

AXIS T98A15-VE Surveillance Cabinet⁹

AXIS 30 W Midspan⁹

AXIS 30 W Midspan AC/DC⁹

AXIS T8006 PS12⁹

For more accessories, see www.axis.com

6. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (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

Warranty

5-year warranty, see axis.com/warranty