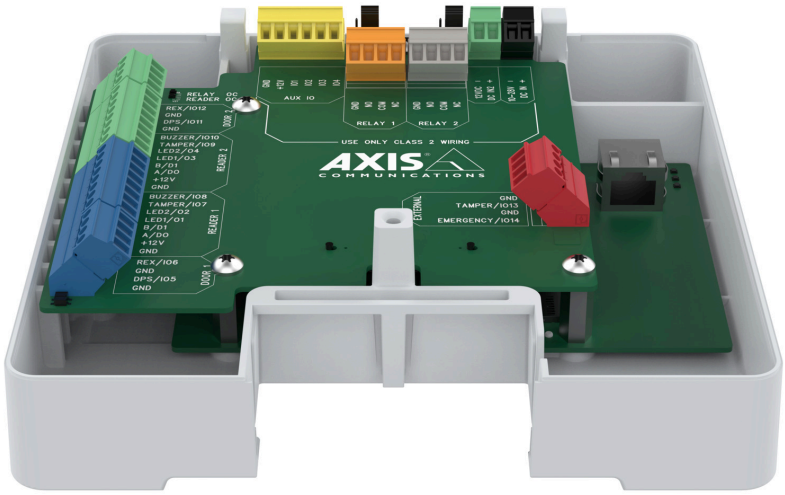
AXIS A1610-B Network Door Controller

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 A9910[1]
Support for integrating up to 16x ASSA ABLOY Aperio®[2] using the AH30 Communication Hub

Credentials
Third-party access management software depending on server capacity[3]. 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)
1x USB-A (port not functional) [4]

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

1. *From version 12.6.102.1*
2. *Requires a license*
3. *For UL 294-certified installations, see the installation guide.*
4. *The USB-A port is disconnected at the hardware level and cannot be used for power, data transfer, or local configuration.*

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)[5]
Reader powered by controller (Wiegand): AWG 20-16, qualified for up to 150 m (500 ft)[6]
I/Os as inputs: Qualified for up to 200 m (656 ft)

System on chip (SoC)

Memory
512 MB RAM, 2048 MB Flash

Network

Security
Password protection, IP address filtering, HTTPS[7] encryption, IEEE 802.1x (EAP-TLS)[7] 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[7], HTTP/2, TLS[7], 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 temperature[8]: 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)

5. *Depending on the reader's voltage and current input range. Evaluated with A4020-E and A4120-E.*
6. *Depending on the reader's voltage and current input range.*
7. *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).*
8. *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.*

Mounting
Cabinet mount[9]
DIN rail mount[9]
Stack mount[9]

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[10]
AXIS TA1901 DIN Rail clip[10]
AXIS TA1902 Access Control Connector Kit[10]
AXIS T98A15-VE Surveillance Cabinet[10]
AXIS 30 W Midspan[10]
AXIS 30 W Midspan AC/DC[10]
AXIS T8006 PS12[10]
For more accessories, see *www.axis.com*

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

Warranty
5-year warranty, see *axis.com/warranty*

9. Shall be mounted in UL listed UL 294 enclosure with tamper switch.
10. For UL 294-certified installations, see the installation guide.

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