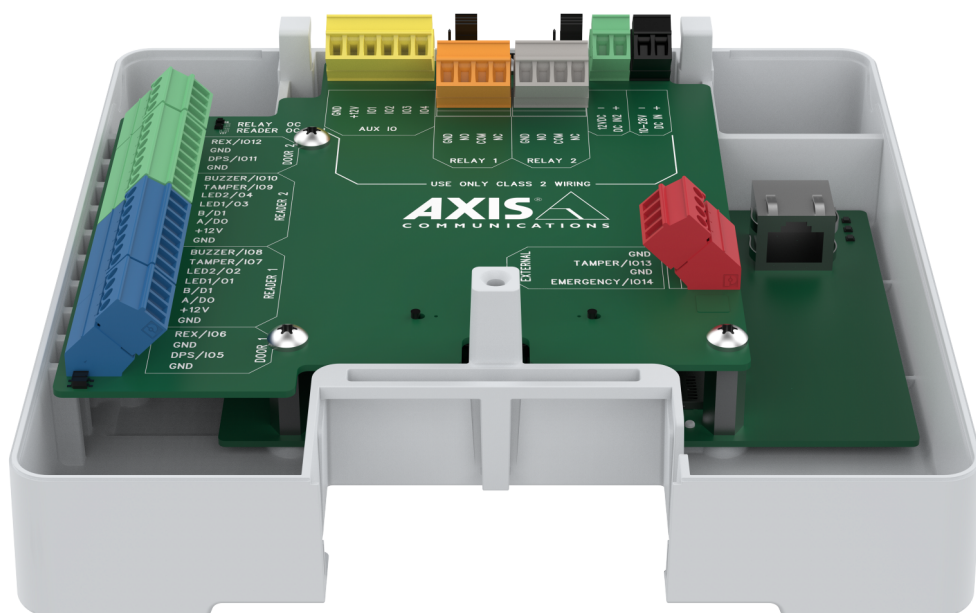# AXIS A1610-B Network Door Controller
Enhanced performance

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 OSDP Secure Channel supported
Doors	1-2 wired doors
Credentials	Unlimited with third-party access management software depending on server capacity[a]. Up to 250 000 credentials stored locally in a fallback scenario where connection to partner software is temporarily lost.
Event buffer	Qualified for up to 250 000 events stored locally

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,
With PoE+: at 12 V, 11 W, at 24 V, 10 W
With DC in: at 12 V, 22.5 W, at 24 V, 18 W
Power out reader: 12 V DC, max 6 W
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

I/O functionality	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)

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)[b]
Reader powered by controller (Wiegand): AWG 20-16, qualified for up to 150 m (500 ft)[c]
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[d] encryption, IEEE 802.1x (EAP-TLS)[d] 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[d], HTTP/2, TLS[d], 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)

System integration

Integration-ready	AXIS A4020–E Reader AXIS A4120–E Reader

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) Humidity 20–85% RH (non-condensing) UL 294: 0 °C to 74 °C (32 °F to 165 °F) Maximum humidity 85%
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 Others CSA C22.2 No. 205-1983
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 DIN rail mount Stack mount
Included accessories	Installation guide, mating connectors (mounted), grounding kit, cable ties
Optional accessories	AXIS TA4701 Access Card AXIS TA4702 Key Fob AXIS TA1801 Top Cover AXIS TA1901 DIN Rail clip AXIS TA1902 Access Control Connector Kit AXIS TA1601 Mounting Plate AXIS T98A15-VE Surveillance Cabinet AXIS 30 W Midspan AXIS 30 W Midspan AC/DC AXIS T8006 PS12 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*

a. *Not intended for UL 294*
b. *Depending on the reader's voltage and current input range. Evaluated with A4020-E and A4120-E.*
c. *Depending on the reader's voltage and current input range.*
d. *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).*

Environmental responsibility:

axis.com/environmental-responsibility

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