

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](#)



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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	
	<p>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</p> <p>Relay: 2x relay NO/NC, max 2 A DC</p> <p>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</p> <p>Power out reader: 2x 12 V DC, max 500 mA in total</p> <p>Auxiliary DC output: 1x 12 V DC output, max 200 mA</p> <p>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</p>
I/O interface	
Reader	DC output: 2x 12 V DC output, 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	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	
	<p>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</p> <p>Reader data (RS485): 1 twisted pair with shield, qualified for up to 1000 m (3281 ft)</p> <p>Reader data (Wiegand): Qualified for up to 150 m (500 ft)</p> <p>Reader powered by controller (RS485): AWG 20–16, qualified for up to 200 m (656 ft)^b</p> <p>Reader powered by controller (Wiegand): AWG 20–16, qualified for up to 150 m (500 ft)^c</p> <p>I/Os as inputs: Qualified for up to 200 m (656 ft)</p>
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 ^e , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS,

RTSP, RTCP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, NTP, 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) Conditional maximum temperature ^e : 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	
	<p>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</p> <p>Safety IEC/EN/UL 62368-1 ed. 3, CAN/CSA C22.2 No. 62368-1 ed. 3, UL 294</p> <p>Environment EN 50581</p>
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 ^f DIN rail mount ^f Stack mount ^f
Included accessories	Installation guide, mating connectors (mounted), grounding kit, cable ties
Optional accessories	AXIS TA4701 Access Card AXIS TA4702 Key Fob AXIS TA1802 Top Cover ^a AXIS TA1901 DIN Rail clip ^a AXIS TA1902 Access Control Connector Kit ^a AXIS T98A15-VE Surveillance Cabinet ^a AXIS 30 W Midspan ^a AXIS 30 W Midspan AC/DC ^a AXIS T8006 PS12 ^a 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).
e. 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.
f. Shall be mounted in UL listed UL 294 enclosure with tamper switch.