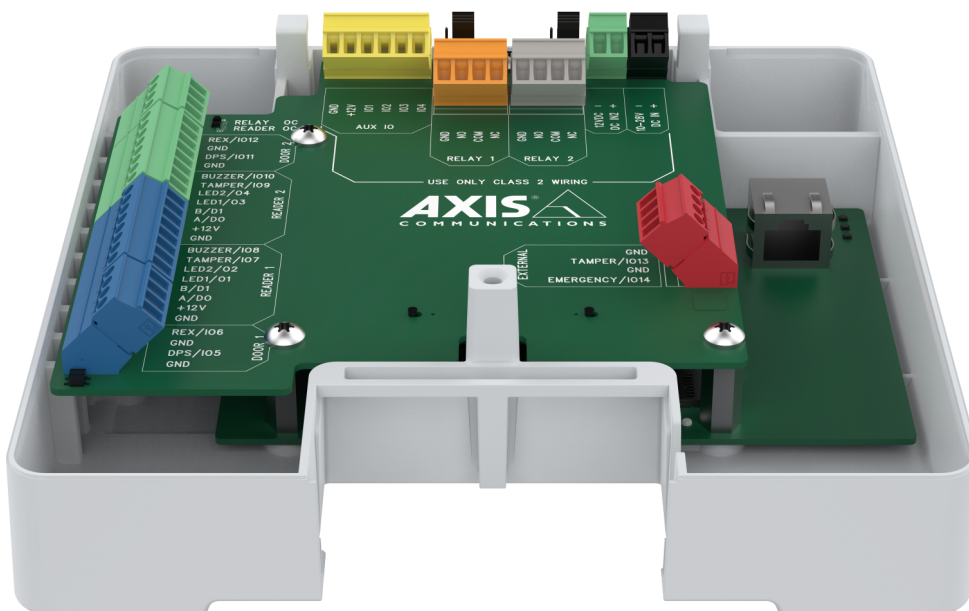


# AXIS A1610-B Network Door Controller

## 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

<b>Door controller</b>		
<b>Readers</b>	Up to 4x OSDP readers, or 2x Wiegand reader OSDP Secure Channel supported	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)
<b>Doors</b>	1-2 wired doors	
<b>Credentials</b>	Unlimited with third-party access management software depending on server capacity <sup>a</sup> . Up to 250 000 credentials stored locally in a fallback scenario where connection to partner software is temporarily lost.	
<b>Event buffer</b>	Qualified for up to 250 000 events stored locally	
<b>Power</b>		
	<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.</p> <p>Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4, max 340 mA. 12 V battery 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+: at 12 V, 11 W, at 24 V, 10 W</p> <p>With DC in: at 12 V, 22.5 W, at 24 V, 18 W</p> <p>Power out reader: 12 V DC, max 6 W</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>	
<b>I/O interface</b>		
<b>I/O functionality</b>	<p><b>Reader I/O</b> 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)</p> <p><b>Reader data</b> OSDP/RS485 half duplex, Wiegand</p> <p><b>Auxiliary</b> 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)</p> <p><b>Door connections</b> 2x2 supervised inputs for door monitors and REX (digital input: 0 to max 30 V DC)</p> <p><b>External</b> 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)</p>	
<b>Cable requirements</b>		
	<p>Wire size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14 DC power and relay: AWG 18–16</p> <p>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)<sup>b</sup></p> <p>Reader powered by controller (Wiegand): AWG 20–16, qualified for up to 150 m (500 ft)<sup>c</sup></p> <p>I/Os as inputs: Qualified for up to 200 m (656 ft)</p>	
<b>System on chip (SoC)</b>		
<b>Memory</b>	512 MB RAM, 2048 MB Flash	
<b>Network</b>		
<b>Security</b>	<p>Password protection, IP address filtering, HTTPS<sup>d</sup> encryption, IEEE 802.1x (EAP-TLS)<sup>d</sup> network access control, digest authentication, user access log, centralized certificate management, brute force delay protection, signed firmware, secure boot</p> <p>Axis Edge Vault with Axis device ID, secure keystore (CC EAL6+ certified hardware protection of cryptographic operations, certificates and keys)</p>	
<b>Network protocols</b>	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS <sup>d</sup> , HTTP/2, TLS <sup>d</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,	
<b>System integration</b>		AXIS A4020–E Reader AXIS A4120–E Reader
<b>Events</b>		
<b>Tamper detection</b>	Removal of unit cover/tamper front Reader tamper Tilting, vibration	
<b>General</b>		
<b>Casing</b>	Aluminum Color: white NCS S 1002-B For repainting instructions of skin cover or casing and impact on warranty, contact your Axis partner.	
<b>Sustainability</b>	PVC free	
<b>Connectors</b>	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.	
<b>Operating conditions</b>	–40 °C to 55 °C (–40 °F to 131 °F) Conditional maximum temperature <sup>e</sup> : 70 °C (158 °F) UL 294: 0 °C to 55 °C (32 °F to 131 °F) Humidity 20–85% RH (non-condensing)	
<b>Storage conditions</b>	–40 °C to 55 °C (–40 °F to 131 °F)	
<b>Approvals</b>	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	
<b>Dimensions</b>	175 x 175 x 50 mm (6.9 x 6.9 x 2.0 in)	
<b>Weight</b>	800 g (1.8 lb)	
<b>Mounting</b>	Cabinet mount <sup>f</sup> DIN rail mount <sup>f</sup> Stack mount <sup>f</sup>	
<b>Included accessories</b>	Installation guide, mating connectors (mounted), grounding kit, cable ties	
<b>Optional accessories</b>	AXIS TA4701 Access Card AXIS TA4702 Key Fob AXIS TA1802 Top Cover <sup>a</sup> AXIS TA1901 DIN Rail clip <sup>a</sup> AXIS TA1902 Access Control Connector Kit <sup>a</sup> AXIS T98A15-VE Surveillance Cabinet <sup>a</sup> AXIS 30 W Midspan <sup>a</sup> AXIS 30 W Midspan AC/DC <sup>a</sup> AXIS T8006 PS12 <sup>a</sup> For more accessories, see <a href="http://www.axis.com">www.axis.com</a>	
<b>Languages</b>	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese	
<b>Warranty</b>	5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>	

- Not intended for UL 294
- Depending on the reader's voltage and current input range. Evaluated with A4020-E and A4120-E.
- Depending on the reader's voltage and current input range.
- 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).
- 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.
- Shall be mounted in UL listed UL 294 enclosure with tamper switch.