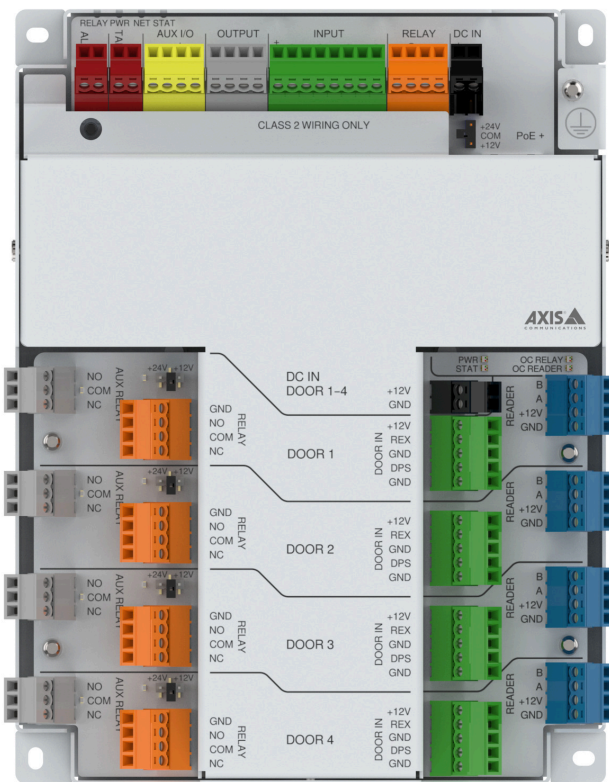


AXIS A1710-B Network Door Controller

Compact, cost-effective controller for up to 4 doors

This multi-door controller offers complete control for up to four doors including support for up to eight OSDP readers and eight locks. Ideal for new and retrofit centralized installations with Axis or third-party cabinets. It offers a smaller footprint design than most door controllers on the market. Built-in lock power management simplifies installation. With support for OSDP readers and an optional accessory for Wiegand readers, this scalable door controller is optimized for both small and large installations. It can be used with AXIS Camera Station Secure Entry or partner solutions to provide an all-in-one video and access control management system.

- > [Centralized control simplifies installation](#)
- > [Full control for up to four doors](#)
- > [Onboard support for eight OSDP readers and eight locks](#)
- > [OSDP Verified for secure reader communication](#)
- > [Built-in cybersecurity features](#)



AXIS A1710-B Network Door Controller

Door controller

Readers	Up to 8 OSDP and Wiegand ³ readers (multidrop ⁹) per controller OSDP Secure Channel supported, OSDP verified
Doors	4 doors, two relays supporting double locks per door Support for integrating up to 16x ASSA ABLOY Aperio [®] wireless lock ⁹
Credentials	Qualified for up to 250 000 credentials stored locally
Event buffer	Qualified for up to 250 000 events stored locally

Power

Input	Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4 or DC IN: 12 V DC, max 36 W DC IN DOOR 1–4: 12 V DC, max 100 W (required)
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I/O interface

Reader	DOOR 1–4 power out ^b : 4x 12 V DC output, combined total of max 2 A Data: 4x OSDP/RS485 half duplex, multidrop ⁹
Door input	DOOR 1–4 power out ^b : 4x 12 V DC output, combined total of max 400 mA DOOR 1–4 input: 4x REX and 4x door position sensor, digital input 0 to max 30 V DC, possible to supervise between 0–12 V DC (4 states)
Relays	RELAY: 1x form C relay, NO/NC Dry: max 2 A at 30 V DC Wet: DC output ^b : 12/24 V DC, jumper configurable With PoE: max 150 mA at 12 V DC, max 50 mA at 24 V DC, max 1.8 W With PoE+: max 920 mA at 12 V DC, max 420 mA at 24 V DC, max 11.04 W With DC in: max 1900 mA at 12 V DC, max 1000 mA at 24 V DC, max 24 W DOOR 1–4 RELAY: 4x form C NO/NC Dry: max 4 A at 30 V DC Wet: DC output ^b : 12/24 V DC, jumper configurable, total combined of max 3.8 A at 12 V DC or max 1.5 A at 24 V DC, max 46 W DOOR 1–4 AUX relay: 4x form C relay, NO/NC Dry: max 2 A at 30 V DC
Digital I/O	Input connector 3x digital input, 0–30 V DC, possible to supervise between 0–12 V DC (4 states) 1x 12 V DC output ^b , max 190 mA Output connector 3x digital output ^b , open drain, 0–30 V DC, max 100 mA AUX I/O connector 2x configurable inputs or outputs Input: digital input, 0–30 V DC, possible to supervise (parallel connection) between 0–12 V DC (4 states) Output ^b : open drain, 0–30 V DC, max 100 mA 1x 12 V DC output ^b , max 250 mA
External	1x external tamper digital input, 0–30 V DC, possible to supervise between 0–12 V DC (4 states) 1x alarm digital input, 0–30 V DC, possible to supervise between 0–12 V DC (4 states)
Supervised input	Configurable input for Tamper, Alarm, I1–I3, REX, DPS, and AUX I/O Programmable end-of-line resistors (serial connection: 1 K, 2.2 K, 4.7 K and 10 K, parallel connection: 4.7 K and 22 K), 1 %, ¼ watt standard One supervised input dedicated for cabinet tamper

Cable requirements

Wire size for connectors: CUL/UL: AWG 30–14
DC power: AWG 16–14, qualified for up to 3 m (10 ft)
Relay: AWG 16–14, qualified for up to 200 m (656 ft)
Ethernet and PoE: STP CAT 5e or higher
Reader data (RS485): 1 twisted pair, AWG 26–14, qualified for up to 1000 m (3281 ft)
Reader powered by controller (RS485): AWG 22–14, qualified for up to 200 m (656 ft)^c
I/Os as inputs: AWG 24–14, qualified for up to 200 m (656 ft)

System on chip (SoC)

Memory	512 MB RAM, 2 GB Flash
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Network

Network protocols	IPv4, IPv6, HTTP, HTTPS ^d , TLS ^d , QoS Layer 3 DiffServ, SMTP, mDNS (Bonjour), UPnP [®] , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, SOCKS, SSH, MQTT v3.1.1, Syslog
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System integration

Application Programming Interface	Open API for software integration, including VAPIX [®] , metadata and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community . ACAP includes Native SDK. One-click cloud connection
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Tamper detection	Reader tamper Tilting, vibration
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Approvals

Product markings	CE, FCC, ICES, KC, RCM, UL/cUL, VCCI, WEEE
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Supply chain	TAA compliant
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EMC	CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50130–4, EN 61000–6–1, EN 61000–6–2 Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES(A)/NMB(A) Japan: VCCI Class A Korea: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A
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Environment	IEC 60068–2–1, IEC 60068–2–2, IEC 60068–2–6, IEC 60068–2–14, IEC 60068–2–27, IEC 60068–2–78
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Safety	CAN/CSA C22.2 No. 62368–1 ed. 3, IEC/EN/UL 62368–1 ed. 3, RCM AS/NZS 62368.1:2022, UL 2043
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Cybersecurity	ETSI EN 303 645
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Cybersecurity

Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), secure keystore, secure boot
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Network security	IEEE 802.1X (EAP-TLS) ^d , IEEE 802.1AR, HTTPS/HSTS ^d , TLS v1.2/v1.3 ^d , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering
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Documentation	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
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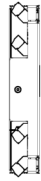
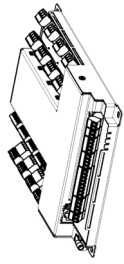
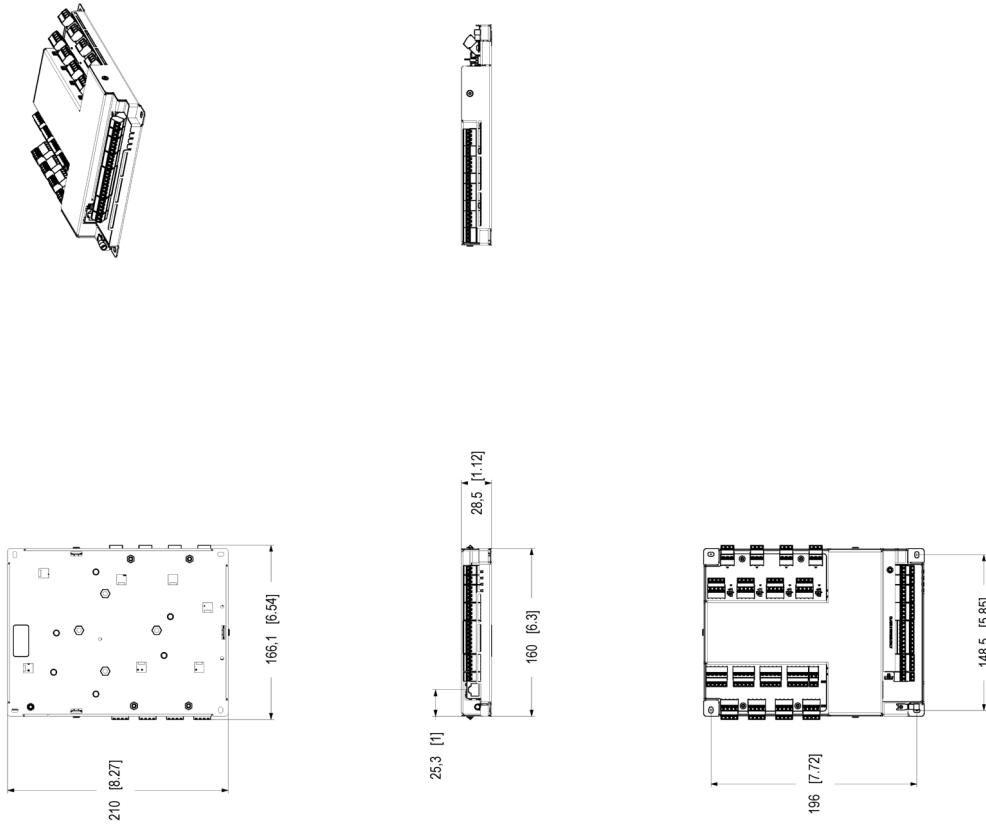
General

Casing	Steel Color: white NCS S 1002–B
Mounting	DIN rail mount, cabinet mount ^e
Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE I/O: Terminal blocks for DC power, inputs/outputs, RS485, relay. Detachable and color coded connectors for ease of installation. Wire size for connectors: CUL/UL: AWG 30–14
Operating conditions	–40 °C to 55 °C (–40 °F to 131 °F) Conditional maximum temperature ^f : 70 °C (158 °F) Humidity 10–85% RH (non-condensing)
Storage conditions	–40 °C to 70 °C (–40 °F to 158 °F) Humidity 5–95% RH (non-condensing)
Dimensions	For the overall product dimensions, see the dimension drawing in this datasheet.
Weight	880 g (1.9 lb)
Box content	door controller, installation guide, connector kit (mounted), grounding kit, splicing connectors
Optional accessories	AXIS TA4711 Access Card AXIS TA4712 Key Fob AXIS TA1901 DIN Rail Clip AXIS TA1902 Access Control Connector Kit ⁹ AXIS 30 W Midspan

	<p>AXIS 30 W Midspan AC/DC⁹ AXIS T8006 PS12⁹ For more accessories, go to axis.com/products/axis-a1710-b</p>
System tools	<p>AXIS Site Designer, AXIS Device Manager, product selector, accessory selector Available at axis.com</p>
Languages	<p>English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese</p>
Warranty	<p>5-year warranty, see axis.com/warranty</p>
Part numbers	<p>Available at axis.com/products/axis-a1710-b#part-numbers</p>
Sustainability	
Substance control	<p>PVC free RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu</p>

Materials	<p>Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability</p>
Environmental responsibility	<p>axis.com/environmental-responsibility Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org</p>
	<p>a. <i>Requires additional accessory AXIS TA1101-B</i> b. <i>All outputs have over current protection circuits with automatic retry.</i> c. <i>Depending on the reader's voltage and current input range. Evaluated with A4020-E and A4120-E.</i> d. <i>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).</i> e. <i>Shall be mounted in UL listed UL 294 enclosure with tamper switch.</i> f. <i>Only DC IN as a power source. The lock(s) should be externally powered. Dry contact only.</i> g. <i>Not intended for UL 294</i></p>

Dimension drawing



Dimensions in mm [in]
Date: 2014-05-05
MPS | L2
318825 | A1 | 1/1

AXIS A1710-B Network Door Controller

Highlighted capabilities

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, **secure boot** ensures that a device can boot only with **signed OS**, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And the **secure keystore** is the critical building-block for protect-

ing cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc.) against malicious extraction in the event of a security breach. The secure keystore and secure connections are provided through a Common Criteria or FIPS 140 certified hardware-based cryptographic computing module.

To read more about Axis Edge Vault, go to axis.com/solutions/edge-vault.

For more information, see axis.com/glossary