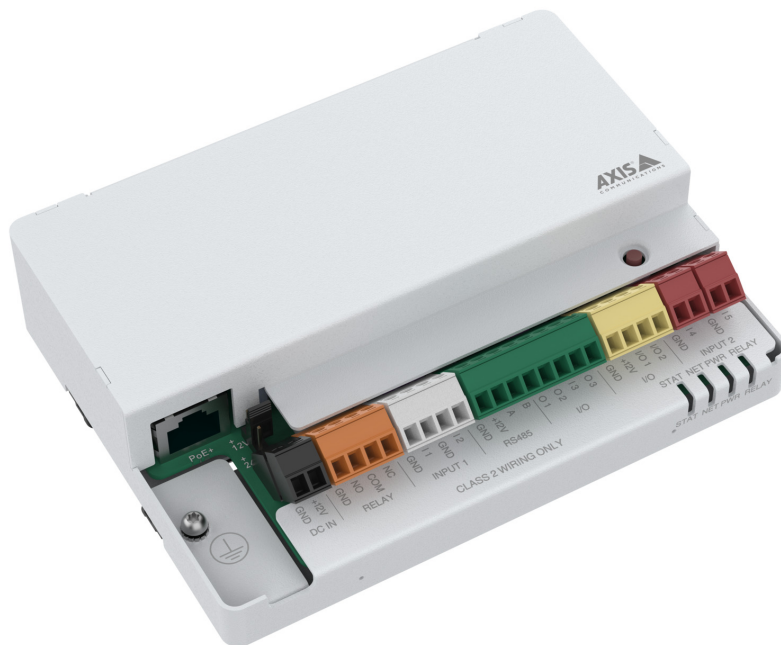


AXIS A9210 Network I/O Relay Module

I/O module for extended functionality

AXIS A9210 offers 10 I/O ports including 2 configurable I/Os, 5 inputs, 3 outputs, and 1 form C relay output, allowing you to extend the functionality of any Axis product or third-party system. You can monitor inputs from cameras, analytics, alarm buttons, environmental sensors, and more, so you can detect and respond to system events. This scalable device offers flexible installation and can be installed anywhere. It's easy to integrate with third-party advanced security systems such as VMSs, and alarm and intrusion systems. Furthermore, with multi-drop technology, you can add up to 16 expansion modules for even more I/O functionality.

- > 10 I/O ports, included inputs are supervised
- > 1 form C relay, wet or dry
- > Supports up to 128 I/Os and 64 relays with one IP connection^d
- > Based on Axis open platforms—VAPIX® and ACAP
- > Axis Edge Vault safeguards the device



AXIS A9210 Network I/O Relay Module

I/O interface

Configurable I/Os I/O: 2x I/O (I/O 1, I/O 2), configurable inputs or outputs
Digital input: 0 to max 30 V DC, possible to supervise between 0–12 V (4 states)^a
 Programmable end-of-line resistors, 1 K, 2.2 K, 4.7 K and 10 K, 1%, ¼ watt standard
Digital output: Open drain, 0 to max 30 V DC, max 100 mA
Power out I/O: 1x 12 V DC output, max 50 mA

Inputs 5x input (I 1, I 2, I 3, I 4, I 5)
 0 to max 30 V DC, possible to supervise between 0–12 V (4 states)^a
 Programmable end-of-line resistors, 1 K, 2.2 K, 4.7 K and 10 K, 1%, ¼ watt standard

Outputs 3x output (O 1, O 2, O 3)
 Open drain, max 30 V, 100 mA each

Relays 1x form C relay, NO/NC, max 2 A, max 30 V DC
Power out relay: 12/24 V DC, max 24 W
 With PoE: max 350 mA at 12 V DC, max 150 mA at 24 V DC, max 4.5 W
 With PoE+: max 1100 mA at 12 V DC, max 500 mA at 24 V DC, max 14 W
 With DC in: max 2000 mA at 12 V DC, max 1000 mA at 24 V DC, max 24 W

RS485 1x port, half duplex, Modbus^d
Power out RS485: 1x 12 V DC output, default 200 mA (490 mA hardware verified by UL 294)

Power

Power in: 12 V DC, max 36 W, or
 Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4

Cable requirements

Wire size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14
DC power: AWG 18–16, qualified for up to 3 m (10 ft)
Relay: AWG 18–16, qualified for up to 30 m (98 ft)
Ethernet and PoE: STP CAT 5e or higher, qualified for up to 100 m (328 ft)
I/Os as inputs: AWG 24, qualified for up to 200 m (656 ft)
RS485: 1 twisted pair with shield, 120 ohm impedance, qualified for up to 1000 m (3281 ft)

System on chip (SoC)

Memory 512 MB RAM, 1 GB Flash

Network

Network protocols IPv4, IPv6, HTTP, HTTPS^b, TLS^b, 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

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

Video management systems Compatible with AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms

Event conditions Device status: IP address blocked, IP address removed, new IP address, network lost, system ready, movement detected
 I/O: digital input, manual trigger, virtual input
 MQTT: subscribe
 Scheduled and recurring: schedule

Event actions MQTT: publish
 Notification: HTTP, HTTPS, TCP and email
 SNMP traps: send, send while the rule is active
 Status LED

Tamper detection Tilting, vibration

Approvals

Product markings CE, RCM, UKCA, UL/cUL, VCCI, WEEE

Supply chain TAA compliant

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-3(A)/NMB-3(A)

Japan: VCCI Class A

Korea: KS C 9835, KS C 9832 Class A

USA: FCC Part 15 Subpart B Class A

Safety CAN/CSA C22.2 No. 62368-1 ed. 3 IEC/EN/UL 62368-1 ed. 3, RCM AS/NZS 62368.1:2022, UL 294, UL 2043

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

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+), Axis device ID, secure keystore, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)

Network security IEEE 802.1X (EAP-TLS)^b, IEEE 802.1AR, HTTPS/HSTS^b, TLS v1.2/v1.3^b, Network Time Security (NTS), X.509 Certificate PKI, IP address filtering

Documentation *AXIS OS Hardening Guide*
Axis Vulnerability Management Policy
Axis Security Development Model
 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

General

Casing Steel
 Color: white NCS S 1002-B

Mounting Wall mount
 DIN rail mount

Connectors Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE
 I/O: Terminal blocks for DC power, inputs/outputs, relay.
 Detachable and color coded connectors for ease of installation.
 Wire size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14

Operating conditions -40 °C to 55 °C (-40 °F to 131 °F)
 Conditional maximum temperature^c: 70 °C (158 °F)
 UL 294: 0 °C to 55 °C (32 °F to 131 °F)
 Humidity: 10–85% RH (non-condensing)

Storage conditions Temperature: -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 466 g (1 lb)

Box content I/O module, installation guide, connector kit (mounted), grounding kit

Optional accessories AXIS TA1901 DIN Rail Clip
 AXIS TA1902 Access Control Connector Kit^d
 AXIS T98A15-VE Surveillance Cabinet^d
 AXIS TQ1808-VE Surveillance Cabinet^d
 AXIS TA9001 Wall Mount Bracket
 AXIS 30 W Midspan
 AXIS 30 W Midspan AC/DC^d
 AXIS T8006 PS12^d
 For more accessories, go to axis.com/products/axis-a9210

System tools AXIS Site Designer, AXIS Device Manager, product selector, accessory selector
 Available at axis.com

Languages English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese

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

Part numbers Available at axis.com/products/axis-a9210#part-numbers

Sustainability

Substance control PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709

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

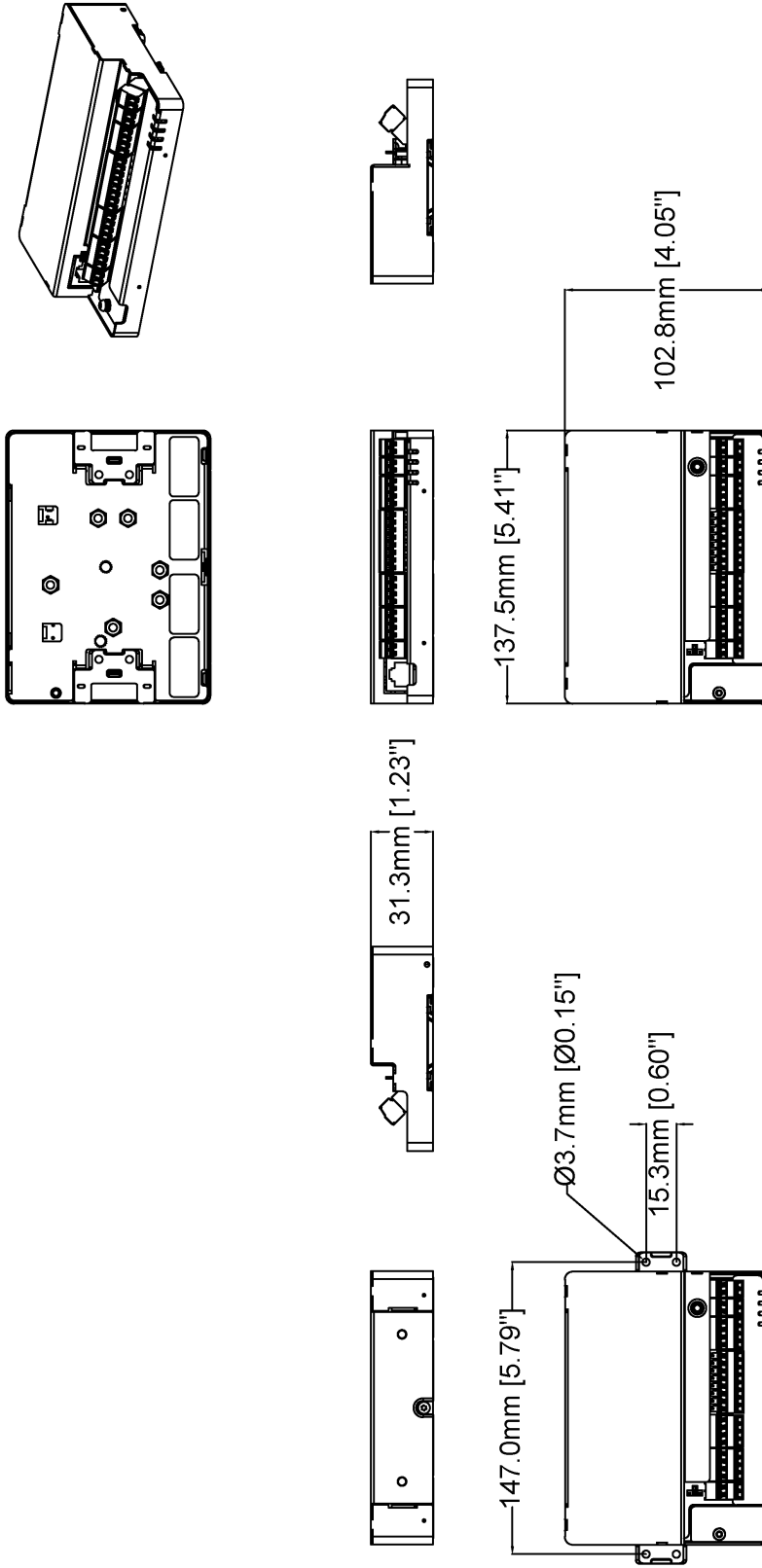
Materials

Screened for conflict minerals in accordance with OECD guidelines
To read more about sustainability at Axis, go to axis.com/about-axis/sustainability

Environmental responsibility axis.com/environmental-responsibility
Axis Communications is a signatory of the UN Global Compact, read more at unglobalcompact.org

- a. *For more information, go to help.axis.com/axis-a9210*
- b. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (eyay@cryptsoft.com).*
- c. *The lock(s) should be externally powered. Onboard reader power with max 500 mA at 12 VDC.*
- d. *Not intended for UL 294*

Dimension drawing



AXIS A9210 Network I/O Relay Module

Revision	v.01	Revision date	2023-11-09
Paper size	A4	Release date	2023-11-09
Created by	MS	Scale	1:3

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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