

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 connectiond
- > Based on Axis open platforms—VAPIX® and ACAP
- > Axis Edge Vault safeguards the device



AXIS A9210 Network I/O Relay Module

I/O interface	1/0: 2x 1/0 (1/0 1 1/0 2) configurable inputs or outsuts		Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Canada: ICES-3(A)/NMB-3(A)
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,		Japan: VCCI Class A Korea: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A
	1%, 1/4 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	Safety	CAN/CSA C22.2 No. 62368-1 ed. 3IEC/EN/UL 62368-1 ed. 3, RCM AS/NZS 62368.1:2022, UL 294, UL 2043
Inputs	5x input (I 1, I 2, I 3, I 4, I 5)	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
	0 to max 30 V DC, possible to supervise between 0–12 V (4 states) ^a	Cybersecurity	
Outputs	Programmable end-of-line resistors, 1 K, 2.2 K, 4.7 K and 10 K, 1 %, 1/4 watt standard	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)
Outputs	3x output (0 1, 0 2, 0 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	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
	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	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
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		General	
	Power in: 12 V DC, max 36 W, or Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4	Casing	Steel Color: white NCS S 1002-B
Cable requirements Wire size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14		Mounting	Wall mount DIN rail mount
System on chip	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)	Connectors	Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T Pol 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 30–1.
	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)	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)
Memory	512 MB RAM, 1 GB Flash	Storage	Temperature: -40 °C to 70 °C (-40 °F to 158 °F)
Network		conditions	Humidity: 5–95% RH (non-condensing)
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, RTCP, RTP, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, SOCKS, SSH, MQTT v3.1.1, Sysloq	Dimensions	For the overall product dimensions, see the dimension drawing in this datasheet.
		Weight	466 g (1 lb)
System integra		Box content	I/O module, installation guide, connector kit (mounted), grounding kit
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	Optional accessories	AXIS TA1901 DIN Rail Clip AXIS TA1902 Access Control Connector Kit ^d AXIS T98A15-VE Surveillance Cabinet ^d AXIS T01808-VE Surveillance Cabinet ^d AXIS TA9001 Wall Mount Bracket AXIS 30 W Midspan AXIS 30 W Midspan AC/DC ^d AXIS 18006 PS12 ^d
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		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
Event actions	MQTT: publish Notification: HTTP, HTTPS, TCP and email SNMP traps: send, send while the rule is active Status LED	Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Tamper detection	Tilting, vibration	Warranty	5-year warranty, see axis.com/warranty
Approvals		Part numbers	Available at axis.com/products/axis-a9210#part-numbers
Product markings	s UL/cUL, KC, EAC, VCCI	Sustainability	
Supply chain	TAA compliant	Substance	PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard
EMC	CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50130-4, EN 61000-6-1, EN 61000-6-2	control	JS709

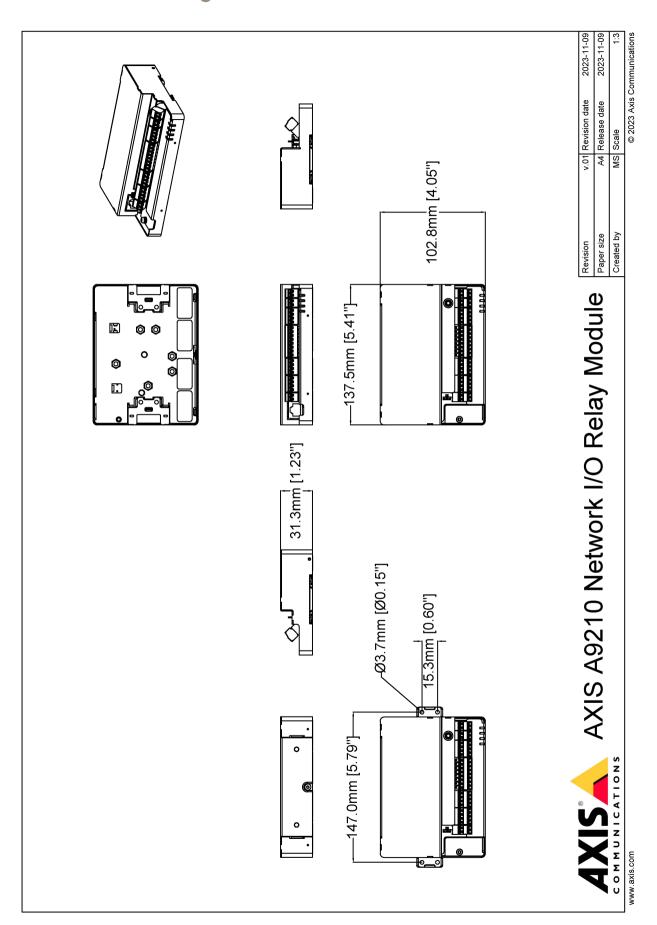
	RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see echa.europa.eu
Materials	Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to axis.com/about-axis/sustainability

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 (eay@cryptsoft.com).
c. The lock(s) should be externally powered. Onboard reader power with max 500 mA at 12 V DC.
d. Not intended for UL 294

Dimension drawing



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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

