

# AXIS A9161 Network I/O Relay Module

## Cost-efficient intelligent module

AXIS A9161 Network I/O Relay Module has 6 configurable I/Os with supervised inputs and a relay. The module reacts on inputs, such as signals from PIR motion detectors or switches, to trigger actions. Its open platform enables a high level of integration with AXIS A1001 Network Door Controller, network cameras, and other facility systems. AXIS A9161 also works standalone. Supplying power to I/O devices, it can extend the functionality of Axis products where additional I/Os or relays are needed. Its convenient size and enclosure makes installation easy and flexible.

- > **6 I/Os and 1 form C relays**
- > **12 and 24 V DC output/input or PoE**
- > **Based on Axis open platforms - VAPIX and ACAP**
- > **Used with AXIS Camera Station or third-party software**



# AXIS A9161 Network I/O Relay Module

I/O interface	
Digital I/O	6x I/O, configurable as input, supervised input with analog read-out or output (Digital input: 0 to max 40 V DC, possible to supervise between 0-12 V (4 states), Digital output: 0 to max 40 V DC, Open drain, max 100 mA)
Relays	1x Form C relay, NO/NC contacts, max 1 A, 30 V DC
Network	
Security	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1X network access control, Digest authentication
Supported protocols	IPv4, IPv6, HTTP, HTTPS <sup>a</sup> , TLS <sup>a</sup> , QoS layer 3 DiffServ, FTP, SFTP, SMTP, Bonjour, UPnP™, SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS
System integration	
Application Programming Interface	Open API for software integration, including VAPIX®, specifications at <a href="http://www.axis.com">www.axis.com</a> Support for AXIS Camera Application Platform enabling installation of third-party applications, see <a href="http://www.axis.com/acap">www.axis.com/acap</a>
Events & alarms	
Tamper detection	Removal of top cover
Event history	30 000 First In, First Out (FIFO)
Event actions	Notification via email, HTTP, HTTPS and TCP, External output port Status LED, send SNMP Trap
Event triggers	Tamper detection, Network lost, Configuration, Event logger, Hardware, Input signal, Schedule, System, Time, Supervised inputs (4 states), Relays and outputs, Heartbeat Lost
General	
Sustainability	PVC free
Software	Configuration and basic management through Internet Explorer, Firefox, Chrome, or Safari
Memory	256 MB RAM, 256 MB Flash
Power	Power in: 8–28 V DC, max 26 W or Power over Ethernet IEEE 802.3af Type 1 Class 3 Power out: 12 V DC and 24 V DC. Max power out shared between 12 V and 24 V outputs: PoE Class 3: 7 W, DC-input: 17 W
Connectors	1x RJ45 10BASE-T/100BASE-TX Terminal blocks: 1x DC IN, 1x DC out, 6x Inputs/Outputs, 1x Relays, Cable size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14
Operating conditions	–40 °C to 55 °C (–40 °F to 131 °F) Humidity 20–85% RH (non-condensing)
Approvals	EN 55032 Class B, EN 50130–4, EN 61000–3–2, EN 61000–3–3, EN 55024, EN 61000–6–1, EN 61000–6–2, FCC Part 15 Subpart B Class B, ICES-003 Class B, RCM AS/NZS CISPR32 Class B, VCCI Class B, IEC/EN/UL 62368–1, EN 50581
Dimensions	35 x 178 x 120 mm (1.4 x 7 x 4.7 in)
Weight	500 g (1.1 lb)
Included accessories	Jumper kit, Torx Key TR20, DIN-clip, Installation Guide
Optional accessories	AXIS T8120 Midspan 15 W, AXIS T8129 PoE Extender Power supply AXIS T8006 PS12
Languages	English, French, Italian, German and Spanish
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see <a href="http://www.axis.com/warranty">www.axis.com/warranty</a>

- a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

Environmental responsibility:

[www.axis.com/environmental-responsibility](http://www.axis.com/environmental-responsibility)