

# 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

<b>I/O interface</b>		<b>Power</b>	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
<b>Digital I/O</b>	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)	<b>Connectors</b>	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
<b>Relays</b>	1x Form C relay, NO/NC contacts, max 1 A, 30 V DC	<b>Operating conditions</b>	–40 °C to 55 °C (–40 °F to 131 °F) Humidity 20–85% RH (non-condensing)
<b>Network</b>		<b>Approvals</b>	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
<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1X network access control, Digest authentication	<b>Dimensions</b>	35 x 178 x 120 mm (1.4 x 7 x 4.7 in)
<b>Supported protocols</b>	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	<b>Weight</b>	500 g (1.1 lb)
<b>System integration</b>		<b>Included accessories</b>	Jumper kit, Torx Key TR20, DIN-clip, Installation Guide
<b>Application Programming Interface</b>	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>	<b>Optional accessories</b>	AXIS T8120 Midspan 15 W, AXIS T8129 PoE Extender Power supply AXIS T8006 PS12
<b>Events &amp; alarms</b>		<b>Languages</b>	English, French, Italian, German and Spanish
<b>Tamper detection</b>	Removal of top cover	<b>Warranty</b>	Axis 3-year warranty and AXIS Extended Warranty option, see <a href="http://www.axis.com/warranty">www.axis.com/warranty</a>
<b>Event history</b>	30 000 First In, First Out (FIFO)	a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit ( <a href="http://www.openssl.org/">http://www.openssl.org/</a> ), and cryptographic software written by Eric Young ( <a href="mailto:ey@cryptsoft.com">ey@cryptsoft.com</a> ).	
<b>Event actions</b>	Notification via email, HTTP, HTTPS and TCP, External output port Status LED, send SNMP Trap	<b>Environmental responsibility:</b> <a href="http://www.axis.com/environmental-responsibility">www.axis.com/environmental-responsibility</a>	
<b>Event triggers</b>	Tamper detection, Network lost, Configuration, Event logger, Hardware, Input signal, Schedule, System, Time, Supervised inputs (4 states), Relays and outputs, Heartbeat Lost		
<b>General</b>			
<b>Sustainability</b>	PVC free		
<b>Software</b>	Configuration and basic management through Internet Explorer, Firefox, Chrome, or Safari		
<b>Memory</b>	256 MB RAM, 256 MB Flash		