

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**



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| I/O interface | | Memory | 256 MB RAM, 256 MB Flash |
|-----------------------------------|--|---|--|
| 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) | 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 |
| Relays | 1x Form C relay, NO/NC contacts, max 1 A, 30 V DC | 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/JUL: AWG 30-14 |
| Network | | Operating conditions | -40 °C to 55 °C (-40 °F to 131 °F) Humidity 20-85% RH (non-condensing) |
| Security | Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1X network access control, Digest authentication | 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 |
| Supported protocols | IPv4, IPv6, HTTP, HTTPS ^a , TLS ^a , QoS layer 3 DiffServ, FTP, SFTP, SMTP, Bonjour, UPnP TM , SNMPv1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS | Dimensions | 35 x 178 x 120 mm (1.4 x 7 x 4.7 in) |
| System integration | | Weight | 500 g (1.1 lb) |
| Application Programming Interface | Open API for software integration, including VAPIX [®] , specifications at www.axis.com Support for AXIS Camera Application Platform enabling installation of third-party applications, see www.axis.com/acap | Included accessories | Jumper kit, Torx Key TR20, DIN-clip, Installation Guide |
| Events & alarms | | Optional accessories | AXIS T8120 Midspan 15 W, AXIS T8129 PoE Extender Power supply AXIS T8006 PS12 |
| Tamper detection | Removal of top cover | Languages | English, French, Italian, German and Spanish |
| Event history | 30 000 First In, First Out (FIFO) | Warranty | 5-year warranty, see axis.com/warranty |
| Event actions | Notification via email, HTTP, HTTPS and TCP, External output port Status LED, send SNMP Trap | 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). | |
| Event triggers | Tamper detection, Network lost, Configuration, Event logger, Hardware, Input signal, Schedule, System, Time, Supervised inputs (4 states), Relays and outputs, Heartbeat Lost | Environmental responsibility: axis.com/environmental-responsibility | |
| General | | | |
| Sustainability | PVC free | | |
| Software | Configuration and basic management through Internet Explorer, Firefox, Chrome, or Safari | | |