

AXIS I7010-VE Safety Network Intercom

Compact and robust audio intercom

With 92dB SPL, this robust, outdoor-ready intercom delivers great audio quality with echo cancellation and noise reduction. With a bright orange color, it's clearly visible even in pitch darkness, snow, fog, and smokey environments. Plus, the RGB call button is illuminated for ease of use regardless of conditions. This IP66-/IP69-rated device includes a vandal-resistant front plate. With support for PoE, it's easy to install. And it fits into 2-gang installation boxes. And it's also easy to integrate with Axis and third-party VMSs. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, safeguards the device and protects sensitive information from unauthorized access.

- > **Orange RAL 2004 color, illuminated RGB call button**
- > **SPL 92dB, echo cancellation, and noise reduction**
- > **Outdoor-ready, vandal-resistant front plate**
- > **Open platform for easy integration**
- > **Built-in cybersecurity with Axis Edge Vault**



SIP

AXIS I7010-VE Safety Network Intercom

System on chip (SoC)

Model
CV25

Memory
2 GB RAM, 1 GB Flash

Audio

Audio features
Echo cancellation, noise reduction, wind reduction, beamforming

Audio streaming
Two-way (full duplex)

Audio input
2x built-in microphones (can be disabled), line input

Audio output
Built-in speaker – max 92 dBSPL (at 1 m / 39 in)
Line output

Audio encoding
LPCM 16 kHz, AAC 8/16 kHz, G.711 A-law, G.711 μ -law, G.722, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz
Configurable bitrate

Lock control

Lock integration
Integration with AXIS A9801 Security Relay: 350 mA at 12 V DC
Integration with OSDP reader
Integrated entry list with up to 50 credentials

Network

Network protocols
IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS¹, HTTP/2, TLS¹, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP[®], SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf), IEEE 802.1X (EAP-TLS), IEEE 802.1AR

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.
One-click cloud connection

VoIP

Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.
Tested with various SIP software such as Cisco and Grandstream
Tested with various PBX software such as Cisco, Avaya and Asterisk
AXIS Parallel Call Forking, AXIS Sequential Call Forking
Supported SIP features: secondary SIP server, IPv6, SRTP, SIPS, SIP TLS, DTMF (RFC2976 and RFC2833), NAT (ICE, STUN, TURN), contact list, parallel call forking, sequential call forking
Supported codecs: PCMU, PCMA, Opus, L16/16000, L16/8000, speex/8000, speex/16000, G.726-32, G.722

Video management systems

Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at axis.com/vms.

Edge-to-edge

Camera pairing

Event conditions

Application
Audio: audio detection, audio clip playing
Call: state, state change
Device status: above/below/within operating temperature, casing open, IP address blocked/removed, live stream active, new IP address, network lost, system ready, shock detected, RFID tag detected
Digital audio input status
Edge storage: recording ongoing, storage disruption, storage health issues detected
I/O: digital input/output, manual trigger, relay or digital output, virtual input
MQTT: subscribe
Scheduled and recurring: schedule

1. 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).

Event actions

Audio clips: play, stop
Calls: answer call, end call, make call
I/O: toggle I/O once, toggle I/O while the rule is active
LEDs: flash status LED, flash status LED while the rule is active
MQTT: publish
Notification: HTTP, HTTPS, TCP and email
Recordings: SD card and network share
Security: erase configuration
SNMP traps: send, send while the rule is active

Analytics

Applications

Included

Active tampering alarm, audio detection
Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap

Approvals

Product markings

CSA, UL/cUL, CE, KC, VCCI, RCM

Supply chain

TAA compliant

EMC

CISPR 35, CISPR 32 Class A, EN 55035,
EN 55032 Class A, EN 61000-6-1, EN 61000-6-2
Australia/New Zealand: RCM AS/NZS CISPR 32 Class A
Canada: ICES(A)/NMB(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

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,
IEC/EN 60529 IP66/IP69, IEC/EN 62262 IK10, ISO 21207
(Method B), NEMA 250 Type 4X

Cybersecurity

ETSI EN 303 645, BSI IT Security Label

Cybersecurity

Edge security

Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 Client Credential Flow/OpenID Authorization Code Flow for centralized ADFS account management, password protection

Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), system-on-chip security (TEE), Axis device ID, secure keystore, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)², IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS², TLS v1.2/v1.3², Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

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

IP66/IP69-, NEMA 4X- and IK10-rated
Stainless steel and zinc casing
Color: orange RAL2004

Mounting

Recessed mounting using US 2-Gang-, 4 inch square installation boxes or AXIS TI8202 Recessed Mount
Wall mounting using AXIS TI8602 Wall Mount
Wall mounting with conduit pipe using AXIS TI8602 Wall Mount and AXIS TI8603 Conduit Adapter

Power

Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4
Typical 3 W, max 25.5 W
Power out: 4.8 W
Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3
Typical 3 W, max 12.7 W
Power out: disabled with PoE Class 3
Relay rating: 30 V, 0.7 A

2. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssl.org), and cryptographic software written by Eric Young (ey@cryptsoft.com).

Connectors

Network: Shielded RJ45 10BASE-T/100BASE-TX/
1000BASE-T PoE
I/O: Terminal block for two configurable supervised
inputs / digital outputs (12 V DC output, max load
50 mA)³, and 1 relay
Audio: 4-pin terminal block for audio input and output
Serial communication: RS485, half duplex/2-wire³

Storage

Support for microSD/microSDHC/microSDXC card
Support for SD card encryption (AES-XTS-Plain64
256bit)
Recording to network-attached storage (NAS)
For SD card and NAS recommendations see axis.com

Operating conditions

Temperature: -40 °C to 60 °C (-40 °F to 140 °F)
Humidity: 10–100% RH (condensing)

Storage conditions

Temperature: -40 °C to 65 °C (-40 °F to 149 °F)
Humidity: 5–95% RH (non-condensing)

Dimensions

For the overall product dimensions, see the dimension
drawing in this datasheet.

Weight

890 g (2.0 lb)

Box content

Intercom, installation guide, RESISTORX® L-key,
terminal block connector, owner authentication key

Optional accessories

AXIS TI8202 Recessed Mount
AXIS TI8602 Wall Mount
AXIS TI8603 Conduit Adapter
AXIS TI8906 Glass Replacement Kit
AXIS TI8908 Safety Face Plate
AXIS A9801 Security Relay
AXIS TI8904 Induction Loop
For more accessories, go to [axis.com/products/axis-
i7010-ve-safety#accessories](https://axis.com/products/axis-i7010-ve-safety#accessories)

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-i7010-ve-
safety#part-numbers](https://axis.com/products/axis-i7010-ve-safety#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

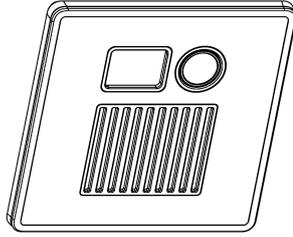
Renewable carbon-based plastic content: 38%
(recycled)
Screened for conflict minerals in accordance with OECD
guidelines
To read more about sustainability at Axis, go to [axis.
com/about-axis/sustainability](https://axis.com/about-axis/sustainability)

Environmental responsibility

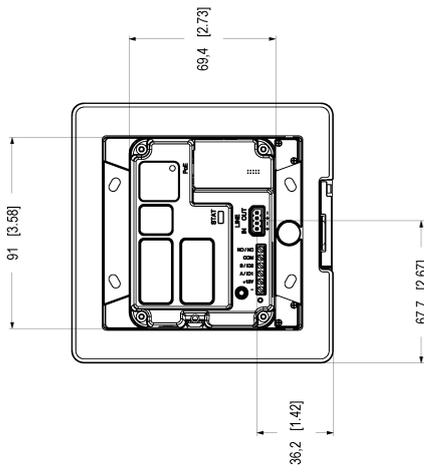
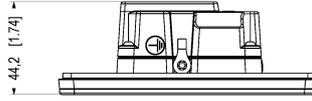
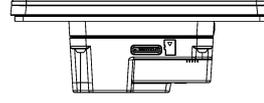
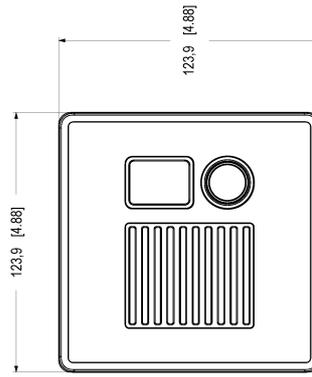
axis.com/environmental-responsibility
Axis Communications is a signatory of the UN Global
Compact, read more at unglobalcompact.org

3. One connector for I/O or RS485 usage

Dimension drawing



312 [1.23]



Dimensions (mm) [inch]			
2024/04/23	M.P.	L.	
13/03/22	A.	B.	

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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 protecting 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.

Entry list

Entry list enables simple and convenient credential-based management, limited to 50 credentials.