AXIS C1510 Network Pendant Speaker

For installation in high ceilings – large

This all-in-one speaker system makes audio announcements smart and easy. For instance, it can be used to make general live or prerecorded voice messages, remotely and proactively warn off intruders, and deliver instructions. It offers easy integration with your video management software (VMS), VoIP telephony, analytics, and more. Including a preconfigured digital signal processer (DSP) it produces clear voice every time. It also features a built-in microphone enabling remote health testing. This visually attractive pendant speaker is ideal for mounting in high ceilings. Furthermore, the embedded audio management software supports user, content, zone, and scheduling management.

> **All-in-one speaker system**
> **Connects to standard network**
> **Easy installation with just one network cable (PoE)**
> **Scalable and easy to integrate**
> **Remote health testing**

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Audio hardware

Enclosure
One way enclosure with 6.5 inches broadband dynamic cone speaker

Max sound pressure level
96 dB

Frequency response
60 Hz - 20 kHz

Coverage pattern
130° coaxial

Audio input/output
Built-in microphone (can be disabled)
External microphone, line in

Built-in microphone specification
50 Hz - 20 kHz

Amplifier description
Built-in 7 W Class D amplifier

Digital signal processing
Built-in and pre-configured

Audio management

AXIS Audio Manager Edge
Built in:
– Zone management allowing you to divide up to 200 speakers into 20 zones.
– Content management for music and live/pre-recorded announcements.
– Scheduling to decide when and where to play content.
– Content prioritization to ensure urgent messages interrupt the schedule.
– Health monitoring for remote discovery of system errors.
– User management to control who has access to what features.
For more details, see the datasheet on *axis.com/ products/axis-audio-manager-edge/support*

AXIS Audio Manager Pro
For larger and more advanced systems. Sold separately. For specifications, see the datasheet on *axis.com/ products/axis-audio-manager-pro/support*

AXIS Audio Manager Center
AXIS Audio Manager Center is a cloud service for remote access and management of multi-site systems. For specifications, see the datasheet on *axis.com/ products/axis-audio-manager-center/support*

Audio software

Audio streaming
One-way/two-way with optional half-duplex echo cancellation. Mono.

Audio encoding
AAC LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Axis µ-law 16 kHz, WAV, MP3 in mono/stereo from 64 kbps to 320 kbps. Constant and variable bit rate. Sampling rate from 8 kHz up to 48 kHz.

System integration

Application Programming Interface
Open API for software integration, including VAPIX® and AXIS Camera Application Platform (ACAP). One-click cloud connection

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*.

Mass notification
Singlewire InformaCast®, Intrado Revolution, Lynx, Alertus

Unified communication
Verified compatibility:
SIP clients: 2N, Yealink, Cisco, Linphone, Grandstream
PBX/SIP servers: Cisco Call Manager, Cisco BroadWorks, Avaya, Asterix, Grandstream
Cloud service providers: Webex, Zoom

SIP

Supported SIP features: Secondary SIP server, IPv6, SRTP, SIPS, SIP TLS, DTMF (RFC2976 and RFC2833), NAT (ICE, STUN, TURN)
RFC 3261: INVITE, CANCEL, BYE, REGISTER, OPTIONS, INFO
DTMF (RFC 4733/RFC 2833)

Event conditions

Audio: audio clip playing, speaker test result
Call: state, state change
Device status: IP address blocked/removed, new IP address, network lost, system ready, live stream active
Edge storage: recording ongoing, storage disruption, storage health issues detected
I/O: digital input, manual trigger, virtual input
MQTT: stateless
Scheduled and recurring: schedule

Event actions

Audio clips: play, stop,
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
Light and siren: run light profile, run light profile while the rule is active, stop activities
MQTT: publish
Notification: HTTP, HTTPS, TCP and email
Recordings: record audio, record audio while the rule is active
Security: erase configuration
SNMP traps: send, send while the rule is active

Built-in installation aids

Test tone verification and identification

Functional monitoring

Auto Speaker Test (verification via built-in microphone)

Approvals

EMC

EN 55024, EN 55035, EN 55032 Class A, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Australia/New Zealand: CISPR 24, CISPR 35, CISPR 32 Class A, RCM AS/NZS CISPR 32 Class A
Canada: ICES-3(A)/NMB-3(A)
Japan: VCCI Class A
Korea: KC KN35, KC KN32 Class A
USA: FCC Part 15 Subpart B Class A

Safety

CAN/CSA C22.2 No. 62368-1, IEC/EN 62368-1, KC-Mark, UL 62368-1

Environment

IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, EC 60068-2-27, IEC/EN 60529 IP4X

Cybersecurity

ETSI EN 303 645, BSI IT Security Label, FIPS-140

Network

Network protocols

IPv4/v6[1], HTTP, HTTPS[2], SSL/TLS[2], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP^{TM}, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), NTCIP, SIP

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, Axis Cryptographic Module (FIPS 140-2 level 1), AES-XTS-Plain64 256bit SD card encryption
Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), Axis device ID, secure keystore, secure boot

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)[2], IEEE 802.1AR, HTTPS/HSTS[2], TLS v1.2/v1.3[2], 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*

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1. *Audio synchronization with IPv4 only.*
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 (eay@cryptsoft.com).*

System on chip (SoC)

Model
NXP i.MX 6SoloX

Memory
512 MB RAM, 512 MB Flash

General

Casing
IP40
Baffle: plastic
Mesh: surface-treated steel plate
Mesh color: white NCS S 1002-B
Top cover: plastic
Repaintable. For repainting instructions and impact on warranty, contact your Axis partner.
Speaker mounting method: hook

Power
Power over Ethernet (PoE), IEEE 802.3af/802.3af, Type 1 Class 3 (max 12.95 W)

Connectors
RJ45 10BASE-T/100BASE-TX PoE
I/O: 4-pin 2.5 mm terminal block for 2x supervised configurable I/Os

LED indicators
Status LED, front-facing LED

Storage
Support for microSD/microSDHC/microSDXC card
Max. size 1 TB
For SD card recommendations see *www.axis.com*

Reliability
Designed for 24/7 operation.

Operating conditions
Temperature: -30 °C to 50 °C (-22 °F to 122 °F)
Humidity: 10–85% RH (condensing)

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

Dimensions
Height: 180 mm (7.1 in), Ø 290 mm (11.4 in)

Weight
4100 g (9.0 lbs)

Box content
Speaker, installation guide, Owner Authentication Key, mesh cover, top cover, connector guard

Optional accessories
AXIS TC1901 Wire Kit, AXIS Safety Wire 3M
For accessories, see *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-c1510-e#part-numbers*

Tools

Design
AXIS Site Designer
Available at *axis.com*

Installation
AXIS Device Manager, product selector, accessory selector
Available at *axis.com*

Sustainability

Substance control
PVC 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 axis.com/partner.

Materials
Renewable carbon-based plastic content: 28% (recycled: 0%, bio-based: 28%, carbon capture based: 0%)
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*

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