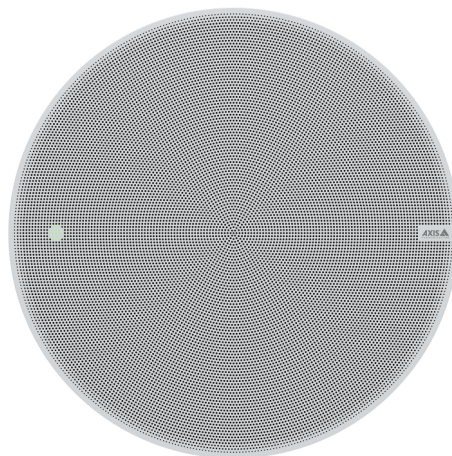


# AXIS C1210-E Network Ceiling Speaker

Discrete in-ceiling installation—large

AXIS C1210-E is an all-in-one speaker system that makes voice announcements and background music smart and easy. It connects to standard network using one cable for both power (PoE) and connectivity. AXIS C1210-E offers flexible, discrete recessed ceiling installation, ideal for indoor environments but can also be used for protected outdoor areas like under the eaves. Additionally, it features a backbox that meets plenum requirements. It offers easy integration with your video management software (VMS), VoIP telephony, analytics, and more. Including a preconfigured digital signal processor (DSP) it produces clear voice every time. It also features a built-in microphone enabling remote health testing and 2-way audio talk-back. 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](#)



# AXIS C1210-E Network Ceiling Speaker

## Audio hardware

<b>Enclosure</b>	One way enclosure with 6.5 inches broadband dynamic cone speaker
<b>Max sound pressure level</b>	96 dB
<b>Frequency response</b>	40 Hz - 20 kHz
<b>Coverage pattern</b>	130° coaxial
<b>Audio input/output</b>	Built-in microphone (can be disabled) External microphone, line in
<b>Built-in microphone specification</b>	50 Hz - 20 kHz
<b>Amplifier description</b>	Built-in 7 W Class D amplifier
<b>Digital signal processing</b>	Built-in and pre-configured

## Audio management

<b>AXIS Audio Manager Edge</b>	Built in: <ul style="list-style-type: none"> <li>Content management for music and live/pre-recorded announcements.</li> <li>Scheduling to decide when and where to play specific content.</li> <li>Content prioritization to ensure urgent messages interrupt the schedule.</li> <li>Zone management allowing you to divide up to 200 speakers into 20 zones.</li> <li>Health monitoring for remote discovery of system errors.</li> <li>User management to control who has access to what features. See separate datasheet for more details.</li> </ul>
<b>AXIS Audio Manager Pro</b>	For larger and more advanced systems. Sold separately. See separate datasheet for specifications.
<b>AXIS Audio Manager Center</b>	AXIS Audio Manager Center is a cloud service for remote access and management of multi-site systems.

## Audio software

<b>Audio streaming</b>	One-way/two-way with optional full duplex echo cancellation. Mono.
<b>Audio encoding</b>	AAC LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Axis $\mu$ -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 on chip (SoC)

<b>Model</b>	i.MX 6SoloX
<b>Memory</b>	512 MB RAM, 512 MB Flash

## Network

<b>Network protocols</b>	IPv4/v6 <sup>a</sup> , HTTP, HTTPS, SSL/TLS, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP™, 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 (Cisco, Avaya, Asterisk)
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## System integration

<b>Application Programming Interface</b>	Open API for software integration, including VAPIX®. One-click cloud connection, AXIS Camera Application Platform (ACAP).
<b>VoIP</b>	Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems. Peer to peer or integrated with SIP/PBX. Tested with: SIP client such as Cisco, Bria and Grandstream and PBX suppliers such as Cisco and Asterisk. Supported SIP features: secondary SIP server, IPv6, SRTP/RTSPS, SIPS, SIP TLS, DTMF (RFC2976 and RFC2833), NAT (ICE, STUN, TURN) Supported codecs: PCMU, PCMA, opus, L16/16000, L16/8000, speex/8000, speex/16000, G.726-32
<b>Intelligent audio</b>	Auto Speaker Test (verification via built-in microphone)
<b>Event triggers</b>	Call, virtual inputs, external input, AXIS Camera Application Platform (ACAP)

<b>Event actions</b>	Play audio clip, send SNMP trap, send Auto Speaker Test, status LED, File upload via HTTP, network share and email, Notification via email, HTTP, HTTPS and TCP, external output activation
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<b>Built-in installation aids</b>	Test tone verification and identification
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## Approvals

<b>EMC</b>	CISPR 24, CISPR 35, CISPR 32 Class A, EN 55024, EN 55035, EN 55032 Class A, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, FCC Part 15 Subpart B Class A, ICES-3(A)/NMB-3(A), KC KN35, KC KN32 Class A, RCM AS/NZS CISPR 32 Class A, VCCI Class A
<b>Safety</b>	CAN/CSA C22.2 No. 62368-1, CAN/CSA-C22.2 No. 60950-22, IEC/EN 62368-1, KC-Mark, UL 62368-1, UL 60950-22
<b>Environment</b>	UL2043 (Plenum rating), 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 IP44

<b>Cybersecurity</b>	ETSI EN 303 645
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## Cybersecurity

<b>Edge security</b>	<b>Software:</b> Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption <b>Hardware:</b> Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), Axis device ID, secure keystore, secure boot
<b>Network security</b>	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

<b>Documentation</b>	<i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> AXIS OS Software Bill of Material (SBOM) To download documents, go to <a href="https://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a> To read more about Axis cybersecurity support, go to <a href="https://axis.com/cybersecurity">axis.com/cybersecurity</a>
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## General

<b>Casing</b>	IP44 (IP40 above ceiling) Baffle: plastic Top cover: plastic Mesh: surface-treated steel plate Mesh color: white NCS S 1002-B Repaintable. For repainting instructions and impact on warranty, contact your Axis partner. Speaker mounting method: plastic clamp
<b>Power</b>	Power over Ethernet (PoE), IEEE 802.3af Type 1 Class 3 (max 12.95 W)
<b>Connectors</b>	RJ45 10BASE-T/100BASE-TX PoE I/O: 4-pin 2.5 mm terminal block for 2x supervised configurable I/Os
<b>Storage</b>	Support for microSD/microSDHC/microSDXC card Max. size 64 GB For SD card recommendations see <a href="https://www.axis.com">www.axis.com</a>
<b>Reliability</b>	Designed for 24/7 operation.
<b>LED indicators</b>	Status LED, front-facing LED
<b>Operating conditions</b>	Temperature: -30 °C to 50 °C (-22 °F to 122 °F) Humidity: 10–100 % RH (condensing)
<b>Storage conditions</b>	Temperature: -40 °C to 65 °C (-40 °F to 149 °F) Humidity: 5–95 % RH (non-condensing)
<b>Dimensions</b>	Height: 150 mm (5.9 in), Front-mesh $\varnothing$ 285 mm (11.2 in) Ceiling thickness: for mounting: 0–60 mm (0–2.4 in) Dimensions for fixing hole: $\varnothing$ 261 mm $\pm$ 2 mm (10.3 in $\pm$ 0.08 in)
<b>Weight</b>	3100 g
<b>Optional accessories</b>	AXIS TC1603 Tile Bridge (for installation in soft ceiling), AXIS TC1602 Conduit Adapter, AXIS TC1702 Back Cover, AXIS Safety Wire 3M For more accessories, see <a href="https://axis.com">axis.com</a>

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<b>Video management software</b>	AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available on <a href="https://axis.com/techsup/software">axis.com/techsup/software</a>	<b>Warranty</b>	5-year warranty, see <a href="https://axis.com/warranty">axis.com/warranty</a>
<b>Languages</b>	English, German, French, Spanish, Italian	a.	<i>Audio synchronization with IPv4 only.</i>

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