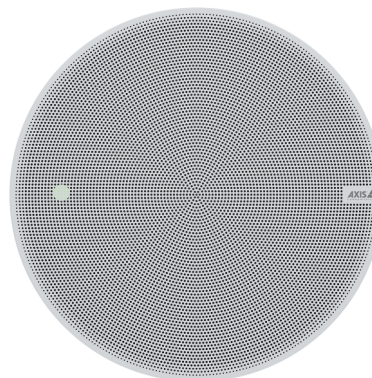# AXIS C1211-E Network Ceiling Speaker
## Discrete in-ceiling installation—small

AXIS C1211-E is an all-in-one speaker system that makes voice announcements smart and easy. It connects to standard network using one cable for both power (PoE) and connectivity. AXIS C1211-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 processer (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 C1211-E Network Ceiling Speaker

## Audio hardware

| | |
|---|---|
| Enclosure | One way enclosure with 4 inches broadband dynamic cone speaker |
| Max sound pressure level | 93 dB |
| Frequency response | 40 Hz - 16 kHz |
| Coverage pattern | 130° coaxial |
| Audio input/output | Built-in microphone (can be disabled)<br>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

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| AXIS Audio Manager Edge | Built in:<br>– Content management for music and live/pre-recorded announcements.<br>– Scheduling to decide when and where to play specific content.<br>– Content prioritization to ensure urgent messages interrupt the schedule.<br>– Zone management allowing you to divide up to 200 speakers into 20 zones.<br>– Health monitoring for remote discovery of system errors.<br>– User management to control who has access to what features.<br>See separate datasheet for more details. |
| AXIS Audio Manager Pro | For larger and more advanced systems. Sold separately. See separate datasheet for specifications. |

## Audio software

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| 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.<br>Constant and variable bit rate.<br>Sampling rate from 8 kHz up to 48 kHz. |

## System on chip (SoC)

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| Model | i.MX 6SoloX |
| Memory | 512 MB RAM, 512 MB Flash |

## Network

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| Security | IP address filtering, HTTPS[a] encryption, IEEE 802.1X[a] network access control, user access log, Centralized Certificate Management |
| Network protocols | IPv4/v6[b], HTTP, HTTPS[a], SSL/TLS[a], 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, NTCIP, SIP (Cisco, Avaya, Asterisk) |

## System integration

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

| | |
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| Event actions | 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 |
| Built-in installation aids | Test tone verification and identification |

## Cybersecurity

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| Edge security | **Software:** Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption<br>**Hardware:** Secure boot, Axis Edge Vault with Axis device ID, signed video, secure keystore (CC EAL4+ certified hardware protection of cryptographic operations and keys) |
| Network security | IEEE 802.1X (EAP-TLS)[a], IEEE 802.1AR, HTTPS/HSTS[a], TLS v1.2/v1.3[a], Network Time Security (NTS), X.509 Certificate PKI, IP address filtering |
| Documentation | *AXIS OS Hardening Guide*<br>*Axis Vulnerability Management Policy*<br>*Axis Security Development Model*<br>AXIS OS Software Bill of Material (SBOM)<br>To download documents, go to *axis.com/support/cybersecurity/resources*<br>To read more about Axis cybersecurity support, go to *axis.com/cybersecurity* |

## General

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|---|---|
| Casing | IP44 (IP40 above ceiling)<br>Baffle: Plastic<br>Top cover: Plastic<br>Mesh: Surface-treated steel plate<br>Mesh color: Off-white (RAL 9010 or equivalent)<br>Repaintable. For repainting instructions and impact on warranty, contact your Axis partner.<br>Speaker mounting method: Plastic clamp |
| Power | Power over Ethernet (PoE), IEEE 802.3af Type 1 Class 3 (max 12.95 W) |
| Connectors | RJ45 10BASE-T/100BASE-TX PoE<br>I/O: 4-pin 2.5 mm terminal block for 2x supervised configurable I/Os |
| Storage | Support for microSD/microSDHC/microSDXC card<br>Max. size 64 GB<br>For SD card recommendations see *www.axis.com* |
| Reliability | Designed for 24/7 operation. |
| LED indicators | Status LED, front-facing LED |
| Operating conditions | -30 °C to 50 °C (-22 °F to 122 °F)<br>Humidity 10–100 % RH (condensing) |
| Storage conditions | -40 °C to 65 °C (-40 °F to 149 °F)<br>Humidity 5–95 % RH (non-condensing) |
| Approvals | EMC<br>CISPR 24, CISPR 35, CISPR 32 Class B, EN 55024, EN 55035, EN 55032 Class B, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, FCC Part 15 Subpart B Class B, ICES-3(B)/NMB-3(B), KC KN35, KC KN32 Class B, RCM AS/NZS CISPR 32 Class B, VCCI Class B<br>Safety<br>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<br>Environment<br>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 |
| Dimensions | Height: 150 mm (5.9 in), Ø 215 mm (8.5 in)<br>Ceiling thickness: for mounting: 0–60 mm (0–2.4 in)<br>Dimensions for fixing hole: Ø 194 mm ± 2 mm (7.6 in ± 0.08 in) |
| Weight | 2000 g |
| Optional accessories | AXIS TC1603 Tile Bridge (for installation in soft ceiling), AXIS TC1602 Conduit Adapter, AXIS TC1702 Back Cover, AXIS Safety Wire 3M<br>For more accessories, see *axis.com* |

| | |
|---|---|
| **Video management software** | AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available on *axis.com/techsup/software* |
| **Languages** | English, German, French, Spanish, Italian |
| **Warranty** | 5-year warranty, see *axis.com/warranty* |

a. *This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org), and cryptographic software written by Eric Young (eay@cryptsoft.com).*
b. *Audio synchronization with IPv4 only.*

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