AXIS C8210 Network Audio Amplifier
Network audio with any speakers

AXIS C8210 Network Audio Amplifier is a smart migration tool for transforming any passive speaker, independent of brand or design, into a network speaker. It allows you to enjoy the benefits of network audio, such as zone management for announcements (live, scheduled, or triggered) and background music. Together with audio management software from Axis it is easy to build a scalable and flexible solution with central control as well as integrating it with other systems such as VoIP or network cameras.

> 15W power amplifier with built-in DSP
> Use with one or multiple speakers
> System health monitoring
> One cable for power and connectivity (PoE)
> Open standards for easy integration

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Audio hardware

Maximum output power	6 W with PoE Class 3, 15 W with PoE Class 4
Supported speaker impedance	4–16 Ω
Frequency response	20 Hz – 20 kHz
Digital signal processing	Built-in and pre-configured

Audio management

AXIS Audio Manager Edge	Built in: – Content management for music and live/pre-recorded announcements. – Scheduling to decide when and where to play specific content. – Content prioritization to ensure urgent messages interrupt the schedule. – Zone management allowing you to divide up to 200 speakers into 20 zones. – Health monitoring for remote discovery of system errors. – User management to control who has access to what features. 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

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.
Audio streaming	One-way/two-way[a], mono

System on chip (SoC)

Model	i.Mx 6SoloX
Memory	512 MB RAM, 512 MB Flash

Network

Security	Password protection, IP address filtering, HTTPS[b] encryption, IEEE 802.1X[b] network access control, Digest authentication, User access log, Centralized Certificate Management
Network protocols	IPv4/v6[c], HTTP, HTTPS[b], SSL/TLS[b], 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) 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 clients such as Cisco, Bria and Grandstream. Tested with various PBX suppliers such as Cisco and Asterisk.
Audio synchronization	Built-in audio synchronization for up to 30 speakers with unicast and hundreds of speakers with multicast. No additional speaker management software or hardware required.
Intelligent audio	Speaker impedance detection and over current protection
Event triggers	Call, virtual inputs, external input, AXIS Camera Application Platform (ACAP)

Event actions	Play audio clip, send SNMP trap, 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 verification and identification

General

Casing	IP20-rated Metal casing Color: Black NCS S 9000–N
Environment	PVC free
Power	Power over Ethernet (PoE) IEEE 802.3af Type 1 Class 3 (max 12.95 W), IEEE 802.3at Type 2 Class 4 (max 25 W)
Connectors	RJ45 10BASE-T/100BASE-TX PoE I/O: 4-pin 2.5 mm terminal block for two configurable inputs/outputs Audio: 3 pole 3.5 mm line/mic-in (2.2 V $_{rms}$), 2–pin 5.08 mm speaker-out
Storage	Support for microSD/microSDHC/microSDXC card Max. size 128 GB For SD card recommendations see *www.axis.com*
Reliability	Designed for 24/7 operation.
Operating conditions	–20 °C to 50 °C (4 °F to 122 °F) Humidity 10–85% RH (non-condensing)
Storage conditions	–40 °C to 65 °C (–40 °F to 149 °F)
Approvals	EMC EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 55035, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A Safety IEC/EN/UL 62368-1 Environment IEC/EN 60529 IP20, UL2043 Plenum rated, NEMA 250 Type 1, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27
Dimensions	140 x 75 x 29 mm (5 1/2 x 2 15/16 x 1 1/8 in)
Weight	257 g (0.57 lb)
Included accessories	Installation Guide, AVHS authentication key, AXIS Camera Station license key, I/O connector, speaker connector, velcro, cable ties
Optional accessories	AXIS Device Microphone A For more accessories, see *www.axis.com*
Management software	AXIS Audio Manager C7050, AXIS Camera Station, video management software from Axis' Application Development Partners available on *www.axis.com/support/downloads*
Languages	English
Warranty	5-year warranty, see *axis.com/warranty*

a. *This product supports two-way audio, audio in and audio out. The product does not support two-way communication for conversations.*
b. *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).*
c. *Audio synchronization with IPv4 only.*

Environmental responsibility:

axis.com/environmental-responsibility

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