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

Audio management	Software applications for managing and controlling your audio system regardless of its size and complexity: – Included in the product (runs inside the device) is AXIS Audio Manager Edge, offering zone management, content management, content scheduling and health monitoring. Up to 200 speakers and 20 zones are supported (see separate datasheet for more details). – For larger and more advanced systems we recommend AXIS Audio Manager Pro (see separate datasheet).
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
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

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
Supported 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®, AXIS Video Hosting System (AVHS) with One-click 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
Memory	512 MB RAM, 512 MB Flash
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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