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**

AXIS C8210 Network Audio Amplifier

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.

AXIS Audio Manager Center
AXIS Audio Manager Center is a cloud service for remote access and management of multi-site systems.

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[1], mono

System on chip (SoC)

Model
i.Mx 6SoloX

Memory
512 MB RAM, 512 MB Flash

Network

Network protocols
IPv4/v6[2], HTTP, HTTPS[3], SSL/TLS[3], 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.

1. This product supports two-way audio, audio in and audio out. The product does not support two-way communication for conversations.
2. Audio synchronization with IPv4 only.
3. 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).

Video management systems

AXIS Audio Manager C7050. 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.*

Audio synchronization

Built-in audio synchronization for up to 20 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

Cybersecurity

Edge security

Software: Signed firmware, 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

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)[4], HTTPS/HSTS[4],
TLS v1.2/v1.3[4], 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

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 1 TB
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)

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4. *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).*

Weight
257 g (0.57 lb)

Included accessories
Installation Guide, AVHS authentication key, I/O
connector, speaker connector, velcro, cable ties

Optional accessories
AXIS Device Microphone A
For more accessories, see *www.axis.com*

Languages
English

Warranty
5-year warranty, see *axis.com/warranty*