

AXIS C8110 Network Audio Bridge

Versatile audio hub

AXIS C8110 Network Audio Bridge is a smart solution based on open standards for connecting and combining analog and digital audio systems. Thanks to the built-in AXIS Audio Manager Edge application you can get functionalities like zone management and content scheduling in existing analog systems. With SIP support it is possible to connect an IP telephony system for callouts in analog speakers. With analog audio input you can easily integrate your intercom system or music streaming box with network speakers from Axis.

- > **Combines analog and network audio**
- > **I/Os for buttons and relays**
- > **PoE for easy installation**
- > **Based on open standards**
- > **Easy integration with other systems**



AXIS C8110 Network Audio Bridge

Audio hardware

Frequency response
20 Hz – 20 kHz

Input/output
Mic-in, line-in, line-out

Digital signal processing
Built-in and pre-configured

Audio software

Encoding
AAC LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726
ADPCM 8 kHz, Axis μ -law 16 kHz, WAV, Opus 8/16/48
kHz
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 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.

System on chip (SoC)

Model
i.MX 6SoloX

Memory
512 MB RAM, 512 MB Flash

Network

Security

Password protection, IP address filtering, HTTPS¹ encryption, IEEE 802.1X¹ network access control, Digest authentication, User access log, Centralized Certificate Management

Network protocols

IPv4/v6², HTTP, HTTPS³, SSL/TLS³, QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP™, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, PTP, 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)

System integration

Application Programming Interface

Open API for software integration, including VAPIX® and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community.
One-click cloud connection
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 client such as Cisco, Bria and Grandstream.
Tested with various PBX suppliers such as Cisco and Asterisk.

Video management systems

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.

1. 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).

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).

VoIP

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, 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

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

Approvals

EMC

CISPR 35, CISPR 32 Class B, EAC, EN 55035, EN 55032 Class B, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B, ICES-3(B)/NMB-3(B), KC KN35, KN32 Class B, RCM AS/NZS CISPR 32 Class B, VCCI Class B,

Safety

UL 62368-1

Environment

IEC/EN 60529 IP20

Cybersecurity

ETSI EN 303 645, BSI IT Security Label, FIPS-140

Cybersecurity

Edge security

Software: Signed OS, 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, Axis Cryptographic Module (FIPS 140-2 level 1), AES-XTS-Plain64 256bit SD card encryption

Hardware: Axis Edge Vault cybersecurity platform
Secure element (CC EAL 6+), Axis device ID, secure keystore, secure boot

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)⁴, IEEE 802.1AR, HTTPS/HSTS⁴, TLS v1.2/v1.3⁴, 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
Plastic and metal casing
Color: Black NCS S 9000-N

Power

8–28 V DC, max 4 W typical 1.85 W
Power over Ethernet (PoE) IEEE 802.3af Type 1 Class 2 (max 4 W)

Connectors

RJ45 10BASE-T/100BASE-TX PoE
I/O: 4-pin 2.5 mm terminal block for 2x supervised configurable I/Os
Power: 2-pin 5.0 mm terminal block DC input
Audio: 3 pole 3.5 mm, RCA line 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.

LED indicators

Status LED

Operating conditions

–20 °C to 50 °C (4 °F to 122 °F)
Humidity 10–85% RH (condensing)

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 (ey@cryptsoft.com).

Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)

Humidity 5–95% RH (non-condensing)

Dimensions

H x D x W: 24 x 56 x 128 mm (0.94 x 2.2 x 5.0 in)

Weight

107 g (0.24 lb)

Included accessories

Installation Guide, AVHS authentication key, power connector, I/O connector, hook-and-loop fastener

Optional accessories

Power supply

For more accessories, see www.axis.com

Languages

English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese

Warranty

5-year warranty, see axis.com/warranty