

# 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**



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<b>Audio hardware</b>		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,
Frequency response	20 Hz - 20 kHz	<b>Safety</b> UL 62368-1
Audio input/output	Mic-in, line-in, line-out	<b>Environment</b> IEC/EN 60529 IP20
Digital signal processing	Built-in and pre-configured	<b>Cybersecurity</b> ETSI EN 303 645
<b>Audio software</b>		<b>Cybersecurity</b>
Audio encoding	AAC LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Axis $\mu$ -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.	<b>Edge security</b> Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, 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
<b>Audio management</b>		<b>Network security</b> IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) <sup>a</sup> , IEEE 802.1AR, HTTPS/HSTS <sup>a</sup> , TLS v1.2/v1.3 <sup>a</sup> , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
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.	<b>Documentation</b> <i>AXIS OS Hardening Guide</i> <i>Axis Vulnerability Management Policy</i> <i>Axis Security Development Model</i> AXIS OS Software Bill of Material (SBOM) To download documents, go to <a href="https://www.axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a> To read more about Axis cybersecurity support, go to <a href="https://www.axis.com/cybersecurity">axis.com/cybersecurity</a>
AXIS Audio Manager Pro	For larger and more advanced systems. Sold separately. See separate datasheet for specifications.	<b>General</b>
AXIS Audio Manager Center	AXIS Audio Manager Center is a cloud service for remote access and management of multi-site systems.	<b>Casing</b> IP20-rated Plastic and metal casing Color: Black NCS S 9000–N
<b>System on chip (SoC)</b>		<b>Power</b> 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)
Model	i.MX 6SoloX	<b>Connectors</b> RJ45 10BASE-T/100BASE-TX PoE I/O: 4-pin 2.5 mm terminal block for two configurable inputs/outputs Power: 2-pin 5.0 mm terminal block DC input Audio: 3 pole 3.5 mm, RCA line out
Memory	512 MB RAM, 512 MB Flash	<b>Storage</b> Support for microSD/microSDHC/microSDXC card Max. size 128 GB For SD card recommendations see <a href="https://www.axis.com">www.axis.com</a>
<b>Network</b>		<b>Reliability</b> Designed for 24/7 operation.
Security	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1X <sup>a</sup> network access control, Digest authentication, User access log, Centralized Certificate Management	<b>LED indicators</b> Status LED
Network protocols	IPv4/v6 <sup>b</sup> , HTTP, HTTPS <sup>a</sup> , SSL/TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>TM</sup> , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, 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)	<b>Operating conditions</b> –20 °C to 50 °C (4 °F to 122 °F) Humidity 10–85% RH (condensing)
<b>System integration</b>		<b>Storage conditions</b> –40 °C to 65 °C (–40 °F to 149 °F) Humidity 5–95% RH (non-condensing)
Application Programming Interface	Open API for software integration, including VAPIX <sup>®</sup> . 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 client such as Cisco, Bria and Grandstream. Tested with various PBX suppliers such as Cisco and Asterisk.	<b>Dimensions</b> H x D x W: 24 x 56 x 128 mm (0.94 x 2.2 x 5.0 in)
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	<b>Weight</b> 107 g (0.24 lb)
Event triggers	Call, Virtual inputs, External input, AXIS Camera Application Platform (ACAP)	<b>Included accessories</b> Installation Guide, AVHS authentication key, power connector, I/O connector, hook-and-loop fastener
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	<b>Optional accessories</b> Power supply For more accessories, see <a href="https://www.axis.com">www.axis.com</a>
<b>Approvals</b>		<b>Video management software</b> AXIS Camera Station, Video management software from Axis' Application Development Partners available on <a href="https://www.axis.com/techsup/software">www.axis.com/techsup/software</a>
EMC	CISPR 35, CISPR 32 Class B, EAC, EN 55035, EN 55032 Class B, EN 61000-6-1, EN 61000-6-2,	<b>Languages</b> English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
		<b>Warranty</b> 5-year warranty, see <a href="https://www.axis.com/warranty">axis.com/warranty</a>

- a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. ([www.openssl.org](https://www.openssl.org)), and cryptographic software written by Eric Young ([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).
- b. Audio synchronization with IPv4 only.