

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	Code Flow for centralized ADFS account management, password protection
Supported speaker impedance	4–16 Ω	Network security IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2), HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall
Frequency response	20 Hz – 20 kHz	Documentation <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 axis.com/support/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
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 ^a , mono	
System on chip (SoC)		
Model	i.Mx 6SoloX	
Memory	512 MB RAM, 512 MB Flash	
Network		
Network protocols	IPv4/v6 ^b , HTTP, HTTPS, SSL/TLS, 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 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 OpenID Authorization	
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, 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. <i>This product supports two-way audio, audio in and audio out. The product does not support two-way communication for conversations.</i> b. <i>Audio synchronization with IPv4 only.</i>