

# 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

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|--|---|--|---|
| <b>Audio</b>                             |   | <b>Casing</b>  | IP20-rated<br>Metal casing<br>Color: Black NCS S 9000-N   |
| <b>Maximum output power</b>              | 6 W with PoE Class 3, 15 W with PoE Class 4   | <b>Environment</b>   | PVC free  |
| <b>Supported speaker impedance</b>       | 4-16 Ω  | <b>Memory</b>  | 512 MB RAM, 512 MB Flash  |
| <b>Frequency response</b>                | 20 Hz - 20 kHz  | <b>Power</b>   | 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)   |
| <b>Audio compression</b>                 | 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.  | <b>Connectors</b>  | RJ45 10BASE-T/100BASE-TX PoE<br>I/O: 4-pin 2.5 mm terminal block for two configurable inputs/outputs<br>Audio: 3 pole 3.5 mm line/mic-in (2.2 V <sub>rms</sub> ), 2-pin 5.08 mm speaker-out   |
| <b>Audio streaming</b>                   | One-way/two-way <sup>a</sup> , mono   | <b>Storage</b>   | Support for microSD/microSDHC/microSDXC card<br>Max. size 128 GB<br>For SD card recommendations see <a href="http://www.axis.com">www.axis.com</a>  |
| <b>Network</b>                           |   | <b>Reliability</b>   | Designed for 24/7 operation.  |
| <b>Security</b>                          | Password protection, IP address filtering, HTTPS <sup>b</sup> encryption, IEEE 802.1X <sup>b</sup> network access control, Digest authentication, User access log, Centralized Certificate Management   | <b>Operating conditions</b>  | -20 °C to 50 °C (4 °F to 122 °F)<br>Humidity 10–85% RH (non-condensing)   |
| <b>Supported protocols</b>               | IPv4/v6 <sup>c</sup> , HTTP, HTTPS <sup>b</sup> , SSL/TLS <sup>b</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, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, NTCIP, SIP (Cisco, Avaya, Asterisk)  | <b>Storage conditions</b>  | -40 °C to 65 °C (-40 °F to 149 °F)  |
| <b>System integration</b>                |   | <b>Approvals</b>   | EMC<br>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<br>Safety<br>IEC/EN/UL 62368-1<br>Environment<br>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 |
| <b>Music streaming</b>                   | Music playback through AXIS Audio Player. Offline streaming from SD card, online streaming support with failover function.  | <b>Dimensions</b>  | 140 x 75 x 29 mm (5 1/2 x 2 15/16 x 1 1/8 in)   |
| <b>Voice announcement</b>                | Pre-recorded voice announcements through AXIS Audio Player. Voice announcement through built-in SIP support for connection to any IP telephone/VoIP system and VAPIX support.   | <b>Weight</b>  | 257 g (0.57 lb)   |
| <b>Application Programming Interface</b> | Open API for software integration, including VAPIX <sup>®</sup> , AXIS Video Hosting System (AVHS) with One-click Connection, AXIS Camera Application Platform (ACAP)<br>Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.<br>Tested with various SIP clients such as Cisco, Bria and Grandstream.<br>Tested with various PBX suppliers such as Cisco and Asterisk. | <b>Included accessories</b>  | Installation Guide, AVHS authentication key, AXIS Camera Station license key, I/O connector, speaker connector, velcro, cable ties  |
| <b>Audio synchronization</b>             | 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.  | <b>Optional accessories</b>  | AXIS Device Microphone A<br>For more accessories, see <a href="http://www.axis.com">www.axis.com</a>  |
| <b>Intelligent audio</b>                 | Speaker impedance detection and over current protection   | <b>Management software</b>   | AXIS Audio Manager C7050, AXIS Camera Station, video management software from Axis' Application Development Partners available on <a href="http://www.axis.com/support/downloads">www.axis.com/support/downloads</a>  |
| <b>Event triggers</b>                    | Call, virtual inputs, external input, AXIS Camera Application Platform (ACAP)   | <b>Languages</b>   | English   |
| <b>Event actions</b>                     | Play audio clip, send SNMP trap, status LED<br>File upload via HTTP, network share and email<br>Notification via email, HTTP, HTTPS and TCP<br>External output activation   | <b>Warranty</b>  | Axis 3-year warranty and AXIS Extended Warranty option, see <a href="http://www.axis.com/warranty">www.axis.com/warranty</a>  |
| <b>Built-in installation aids</b>        | Test verification and identification  | <p>a. <i>This product supports two-way audio, audio in and audio out. The product does not support two-way communication for conversations.</i></p> <p>b. <i>This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<a href="http://www.openssl.org">www.openssl.org</a>), and cryptographic software written by Eric Young (<a href="mailto:eyay@cryptsoft.com">eyay@cryptsoft.com</a>).</i></p> <p>c. <i>Audio synchronization with IPv4 only.</i></p> |   |
| <b>General</b>                           |   | <p>Environmental responsibility:<br/><a href="http://axis.com/environmental-responsibility">axis.com/environmental-responsibility</a></p>  |   |