

# AXIS C1610-VE Network Sound Projector

Sleek, robust speaker for clear speech

This network sound projector features a clean and minimalistic design suited to both outdoor and indoor environments. Digital signal processing (DSP) ensures clear sound, and embedded audio management software lets users remotely coordinate security, safety, and operational messages alongside background music. Built-in memory supports prerecorded messages, and live speak lets personnel address events in real time. Built on open standards, this speaker supports integration with network video, access control, analytics, and VoIP (supporting SIP). This standalone unit connects directly to your standard network for a flexible, scalable, cost-effective audio solution. Furthermore, its IK10 vandal-resistant rating allows for placement almost anywhere.

- > [Sleek, vandal-resistant design](#)
- > [All-in-one, outdoor-ready speaker system](#)
- > [Connects to standard network](#)
- > [Simple installation with PoE](#)
- > [Remote health testing](#)



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<b>Audio hardware</b>		<b>Event triggers</b>	Virtual inputs, External input Call: DTMF, State changes, AXIS Camera Application Platform (ACAP)
<b>Enclosure</b>	One-way enclosure with 4-inch broadband dynamic cone speaker	<b>Event actions</b>	File upload: HTTP, network share and email Notification: email, HTTP and TCP Play audio clip Perform Auto Speaker Test Send SNMP trap Status LED
<b>Max sound pressure level</b>	106 dB	<b>Built-in installation aids</b>	Test tone verification and identification
<b>Frequency response</b>	200 Hz - 16 kHz	<b>Functional monitoring</b>	Auto Speaker Test, Connection verification, Built-in system logging
<b>Coverage pattern</b>	130° (at 2 kHz)	<b>Approvals</b>	
<b>Audio input/output</b>	Built-in microphone (can be disabled mechanically)	<b>EMC</b>	EN 55032 Class B, EN 50121-4, IEC 62236-4, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B, ICES-3(B)/NMB-3(B), VCCI Class B, RCM AS/NZS CISPR 32 Class B, KC KN32 Class B, KC KN35
<b>Built-in microphone specification</b>	50 Hz - 15 kHz	<b>Safety</b>	IEC/EN/UL 62368-1, IEC/EN/UL 60950-22
<b>Digital signal processing</b>	Built-in and pre-configured	<b>Environment</b>	IEC 62262 IK11, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-78, IEC/EN 60529 IP66, NEMA 250 Type 4X, MIL-STD-810G 509.5, ISO 21207 (Method B), ISO 4892-2
<b>Amplifier description</b>	Built-in 7 W Class D amplifier	<b>Cybersecurity</b>	ETSI EN 303 645
<b>Audio management</b>		<b>Cybersecurity</b>	
<b>AXIS Audio Manager Edge</b>	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>Edge security</b>	<b>Software:</b> Digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection
<b>AXIS Audio Manager Pro</b>	For larger and more advanced systems. Sold separately. See separate datasheet for specifications.	<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
<b>AXIS Audio Manager Center</b>	AXIS Audio Manager Center is a cloud service for remote access and management of multi-site systems.	<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://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a> To read more about Axis cybersecurity support, go to <a href="https://axis.com/cybersecurity">axis.com/cybersecurity</a>
<b>Audio software</b>		<b>General</b>	
<b>Audio streaming</b>	One-way/two-way with optional half-duplex echo cancellation. Mono.	<b>Casing</b>	Impact-resistant aluminum, IP66-, IK10-, NEMA 4X-, and MIL-STD-810G 509.5-rated.
<b>Audio encoding</b>	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>Power</b>	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 (max. 12.95 W)
<b>System on chip (SoC)</b>		<b>Connectors</b>	RJ45 10BASE-T/100BASE-TX PoE I/O: 4-pin 2.5 mm terminal block for 2x supervised configurable I/Os
<b>Model</b>	i.MX6 SX	<b>Reliability</b>	Designed for 24/7 operation.
<b>Memory</b>	512 MB RAM, 512 MB Flash	<b>Operating conditions</b>	-40°C to 55 °C (-40 °F to 131 °F) Humidity 10-100% RH (condensing)
<b>Network</b>		<b>Storage conditions</b>	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (condensing)
<b>Security</b>	Password protection, IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1X <sup>a</sup> network access control, Digest authentication, User access log	<b>Dimensions</b>	Ø203 X 105 mm (Ø8.0 x 4.1 in)
<b>Network protocols</b>	IPv4/IPv6, HTTP, HTTPS <sup>a</sup> , SIP, SSL/TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>TM</sup> , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, TCP, UDP, IGMPv1/v2/v3, ICMP, DHCP, ARP, SOCKS, SSH	<b>Weight</b>	4.1 kg (9.0 lb)
<b>System integration</b>		<b>Included accessories</b>	Installation Guide, AVHS Authentication Key, AXIS Connector Guard A, Cable shoe
<b>Application Programming Interface</b>	Open API for software integration, including VAPIX <sup>®</sup> , One-click cloud connection, AXIS Camera Application Platform (ACAP).	<b>Optional accessories</b>	AXIS T91B47 Pole Mount, AXIS T91F67 Pole Mount, Cable Gland M20x1.5, RJ45, Cable Gland A M20, AXIS Power over Ethernet Midspans, T94R01B Corner Bracket, T94P01B Corner Bracket, T94S01P Conduit Back Box For more accessories, see <a href="https://axis.com">axis.com</a>
<b>VoIP</b>	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>Video management software</b>	AXIS Camera Station, Video management software from Axis' Application Development Partners available on <a href="https://axis.com/techsup/software">axis.com/techsup/software</a>
<b>Intelligent audio</b>	Auto Speaker Test	<b>Languages</b>	English, German, French, Spanish, Italian

**Warranty** 5-year warranty, see [axis.com/warranty](https://www.axis.com/warranty)

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)).*