AXIS XC1311 Explosion-Protected Horn Speaker

Class/Division 1- and Zone 1-certified network horn speaker

Certified worldwide for hazardous areas (Class I Div 1, Zone 1 IIC), this all-in-one network horn speaker enables live, scheduled, and event-triggered voice messages. For example, real-time severe weather alerts, or prerecorded reminders to wear personal protective equipment when an analytics-equipped camera detects it's missing. Messages come through loud and clear – even in noisy environments – thanks to the horn and built-in digital signal processing. PoE makes installation easy, with one cable for both power and connectivity. Furthermore, AXIS Audio Manager Edge comes preinstalled so you can remotely monitor system health, set and prioritize content, and configure zones and user permissions.

- > All-in-one standalone device
- > Connects to standard network
- > Worldwide hazardous area certifications
- > Easy to install, configure, and use
- > Flexible, scalable, and cost-effective

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System on chip (SoC)

Model	i.MX 8M Nano
Memory	1024 MB RAM, 1024 MB Flash

Audio hardware

Enclosure	One way enclosure with 2.5 inches broadband dynamic cone speaker
Max sound pressure level	>110 dB at 1 m distance
Frequency response	280 Hz - 12.5 kHz
Coverage pattern	70° horizontal by 100° vertical (at 2 kHz)
Audio input/output	Built-in speaker
Digital signal processing	Built-in and pre-configured
Amplifier description	Built-in 7 W Class D amplifier

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.

Audio software

Audio streaming	One-way
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

Network

Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS[a], HTTP/2, TLS[a], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf), IEEE 802.1X (EAP-TLS), IEEE 802.1AR

System integration

Application Programming Interface	Open API for software integration, including VAPIX®, metadata and AXIS Camera Application Platform (ACAP); specifications at *axis.com/developer-community*. ACAP includes Native SDK. 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.
Video management systems	Compatible with AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at *axis.com/vms*
Intelligent audio	Auto Speaker Test
Event conditions	Audio: audio clip playing, speaker test result Device status: IP address blocked/removed, live stream active, network lost, new IP address, system ready Edge storage: recording ongoing, storage disruption, storage health issues detected MQTT: subscribe Scheduled and recurring: schedule
Event actions	Audio: run automatic speaker test Audio clips: play, stop MQTT: publish Notification: HTTP, HTTPS, TCP and email SNMP trap messages: send message
Built-in installation aids	Test tone verification and identification
Functional monitoring	Auto Speaker Test, connection verification, built-in system logging

Approvals

Supply chain	TAA compliant
EMC	EN 55035, EN 55032 Class A, EN 61000-6-1, EN 61000-6-2 **USA:** FCC Part 15 Subpart B Class A
Safety	CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3
Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, IEC/EN 60529 IP66/IP67, NEMA 250 Type 4X
Network	NIST SP500-267
Explosion	CSA C22.2 No. 60079-0, CSA C22.2 No. 60079-1, CSA C22.2 No. 60079-31, IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-31, UL1203, UL 60079-0, UL 60079-1, UL 60079-31
Certifications	**ATEX** II 2 G Ex db IIC T5 Gb II 2 D Ex tb IIIC T91°C Db **Certificate:** UL: 24 ATEX 3177X **IECEx** Ex db IIC T5 Gb Ex tb IIIC T91°C Db **Certificate:** ULD 24.0006X **cULus** Class I Div 1 Groups A, B, C, D T5 Class I Zone 1 AEx db IIC T5 Gb Zone 21 AEx tb IIIC T91°C Db **Certificate:** E538733

Cybersecurity

Edge security	**Software:** Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection **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)[a], IEEE 802.1AR, HTTPS/HSTS[a], TLS v1.2/v1.3[a], 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

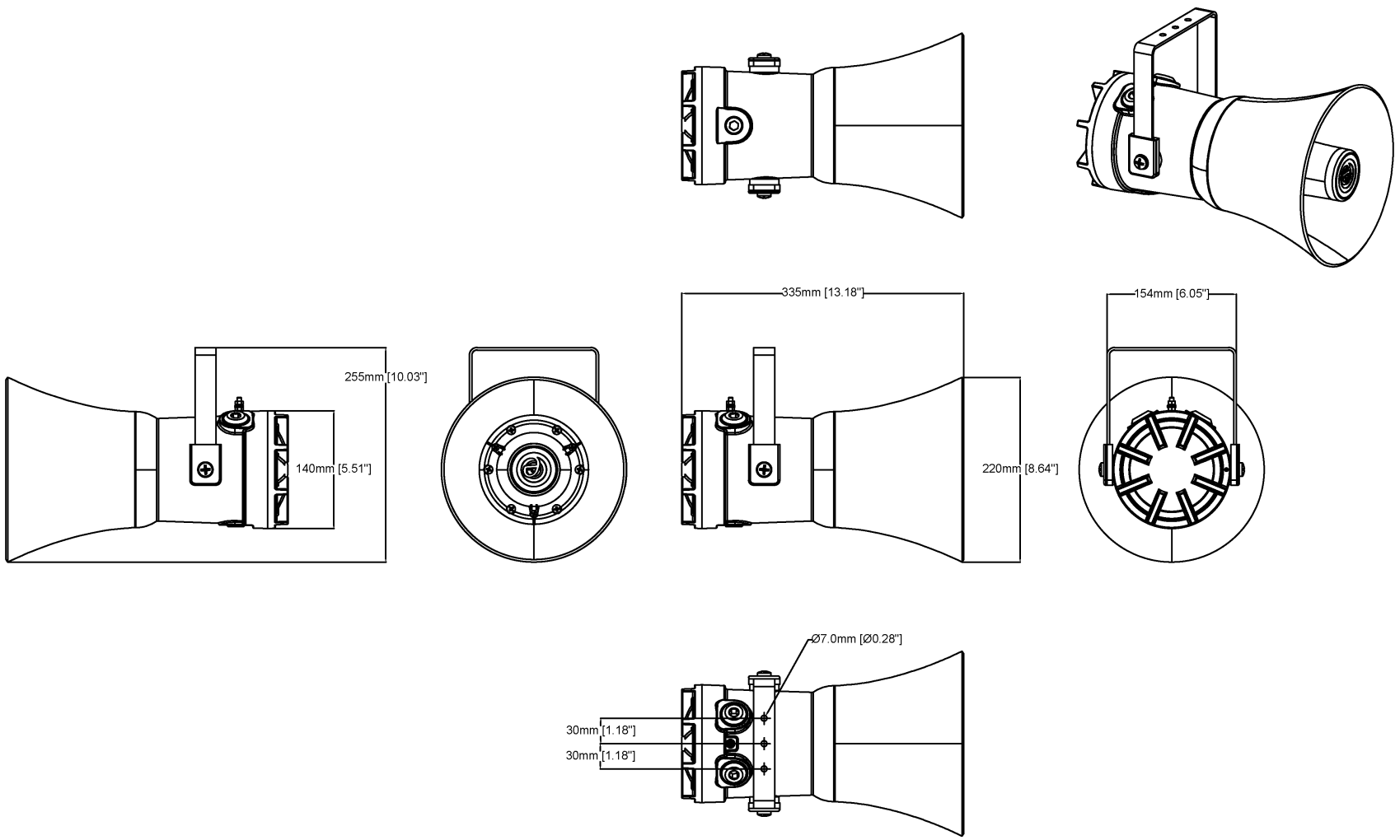
Casing	IP66-, IP67- and NEMA 4X-rated Impact-resistant aluminum Color: RAL 3000 M20 cable side entries (x2) ½" NPT cable side entry (x1)
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 7 W, max 12.95 W
Connectors	Network: RJ45 10BASE-T/100BASE-TX PoE
Reliability	Designed for 24/7 operation
Operating conditions	Temperature: -40 °C to 60 °C (-40 °F to 140 °F) Humidity: 10–100% RH (condensing)
Storage conditions	Temperature: -40 °C to 65 °C (-40 °F to 149 °F) Humidity: 5–95% RH (non-condensing)
Dimensions	For the overall product dimensions, see the dimension drawing in this datasheet.
Weight	4220 g (9.3 lb.)

Box content	Horn speaker, installation guide, terminal block connector, ring crimp terminal, owner authentication key
Optional accessories	Pole Mount ExCam XF, Pole Mount ExCam XPT For more accessories, go to *axis.com/products/axis-xc1311#accessories*
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see *axis.com/warranty*
Part numbers	Available at *axis.com/products/axis-xc1311#part-numbers*

Sustainability

Substance control	PVC free RoHS in accordance with EU RoHS Directive 2011/65/EU/ and EN 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see *echa.europa.eu*
Materials	Screened for conflict minerals in accordance with OECD guidelines To read more about sustainability at Axis, go to *axis.com/about-axis/sustainability*
Environmental responsibility	*axis.com/environmental-responsibility* Axis Communications is a signatory of the UN Global Compact, read more at *unglobalcompact.org*

a. *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).*



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Created by	MS	Scale	1:6

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Highlighted capabilities

Axis Edge Vault

Axis Edge Vault is the hardware-based cybersecurity platform that safeguards the Axis device. It forms the foundation that all secure operations depend on and offer features to protect the device's identity, safeguard its integrity and protect sensitive information from unauthorized access. For instance, **secure boot** ensures that a device can boot only with **signed OS**, which prevents physical supply chain tampering. With signed OS, the device is also able to validate new device software before accepting to install it. And the **secure keystore** is the critical building-block for protecting cryptographic information used for secure communication (IEEE 802.1X, HTTPS, Axis device ID, access control keys etc.) against malicious extraction in the event of a security breach. The secure keystore and secure connections are provided through a Common Criteria or FIPS 140 certified hardware-based cryptographic computing module.

To read more about Axis Edge Vault, go to *axis.com/solutions/edge-vault*.

AXIS Audio Manager Edge

AXIS Audio Manager Edge is a software management system that comes embedded in Axis network speakers. It lets you manage and control your local site audio system. AXIS Audio Manager Edge is suitable for small to medium sites with relatively straightforward needs.

IP66/IP67

IP ratings (ingress protection or international protection) are defined as a two-digit code where the first digit is the level of protection against the intrusion of solid foreign objects and the second digit is the level of protection against the intrusion of water.

IP66 – the product is dust-tight and powerful jets can't harm the product.

IP67 – the product is dust-tight and continuous submersion in water can't harm the product.

NEMA 4X

NEMA 4X is equivalent to IP56 and provides a degree of protection of the equipment, inside the enclosure, against the ingress of solid foreign objects, the ingress of splashing or hose-directed water, the forming of ice, and corrosion.

VAPIX

VAPIX is a registered trademark and our own open application programming interface (API). It enables the integration of our products into a wide range of solutions and platforms.

SIP

The Session Initiation Protocol (SIP) is a protocol that initiates, maintains, and terminates multimedia sessions between different parties. Usually, these sessions consist of audio, but sometimes they consist of video. The most common applications of SIP include internet telephony for voice and video calls and instant messaging over IP networks.

For more information, see *axis.com/glossary*