

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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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
Amplifier description	Built-in 7 W Class D amplifier
Digital signal processing	Built-in and pre-configured

Audio management

AXIS Audio Manager Edge	Built in: <ul style="list-style-type: none"> – Zone management allowing you to divide up to 200 speakers into 20 zones. – Content management for music and live/pre-recorded announcements. – Scheduling to decide when and where to play content. – Content prioritization to ensure urgent messages interrupt the schedule. – Health monitoring for remote discovery of system errors. – User management to control who has access to what features. For more details, see the datasheet on axis.com/products/axis-audio-manager-edge/support
AXIS Audio Manager Pro	For larger and more advanced systems. Sold separately. For specifications, see the datasheet on axis.com/products/axis-audio-manager-pro/support
AXIS Audio Manager Center	AXIS Audio Manager Center is a cloud service for remote access and management of multi-site systems. For specifications, see the datasheet on axis.com/products/axis-audio-manager-center/support

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

System integration

Application Programming Interface	Open API for software integration, including VAPIX®, One-click cloud connection, AXIS Camera Application Platform (ACAP).
Video management systems	Compatible with AXIS Companion, AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms
Mass notification	Singlewire InformaCast®, Intrado Revolution, Lynx, Alertus
Unified communication	Verified compatibility: SIP clients: 2N, Yealink, Cisco, Linphone, Grandstream PBX/SIP servers: Cisco Call Manager, Cisco BroadWorks, Avaya, Asterix, Grandstream Cloud service providers: Webex, Zoom
SIP	Supported SIP features: Secondary SIP server, IPv6, SRTP, SIPS, SIP TLS, DTMF (RFC2976 and RFC2833), NAT (ICE, STUN, TURN) RFC 3261: INVITE, CANCEL, BYE, REGISTER, OPTIONS, INFO DTMF (RFC 4733/RFC 2833)
Event conditions	Audio: audio clip playing, audio detection, speaker test result Call: state, state change 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 I/O: digital input, manual trigger, virtual input MQTT: subscribe Scheduled and recurring: schedule
Event actions	Audio: run automatic speaker test Audio clips: play, stop

I/O: toggle I/O once, toggle I/O while the rule is active
 LEDs: flash status LED, flash status LED while the rule is active
 Light and siren: run light profile, run light profile while the rule is active, stop activities
 MQTT: publish
 Notification: HTTP, HTTPS, TCP and email
 Recordings: record audio, record audio while the rule is active
 Security: erase configuration
 SNMP traps: send, send while the rule is active

Built-in installation aids	Test tone verification and identification
Functional monitoring	Auto Speaker Test (verification via built-in microphone)

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
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Network

Network protocols	IPv4/v6 ^a , 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
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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), IEEE 802.1AR, HTTPS/HSTS, TLS v1.2/v1.3, Network Time Security (NTS), X.509 Certificate PKI, host-based firewall

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
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System on chip (SoC)

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

General

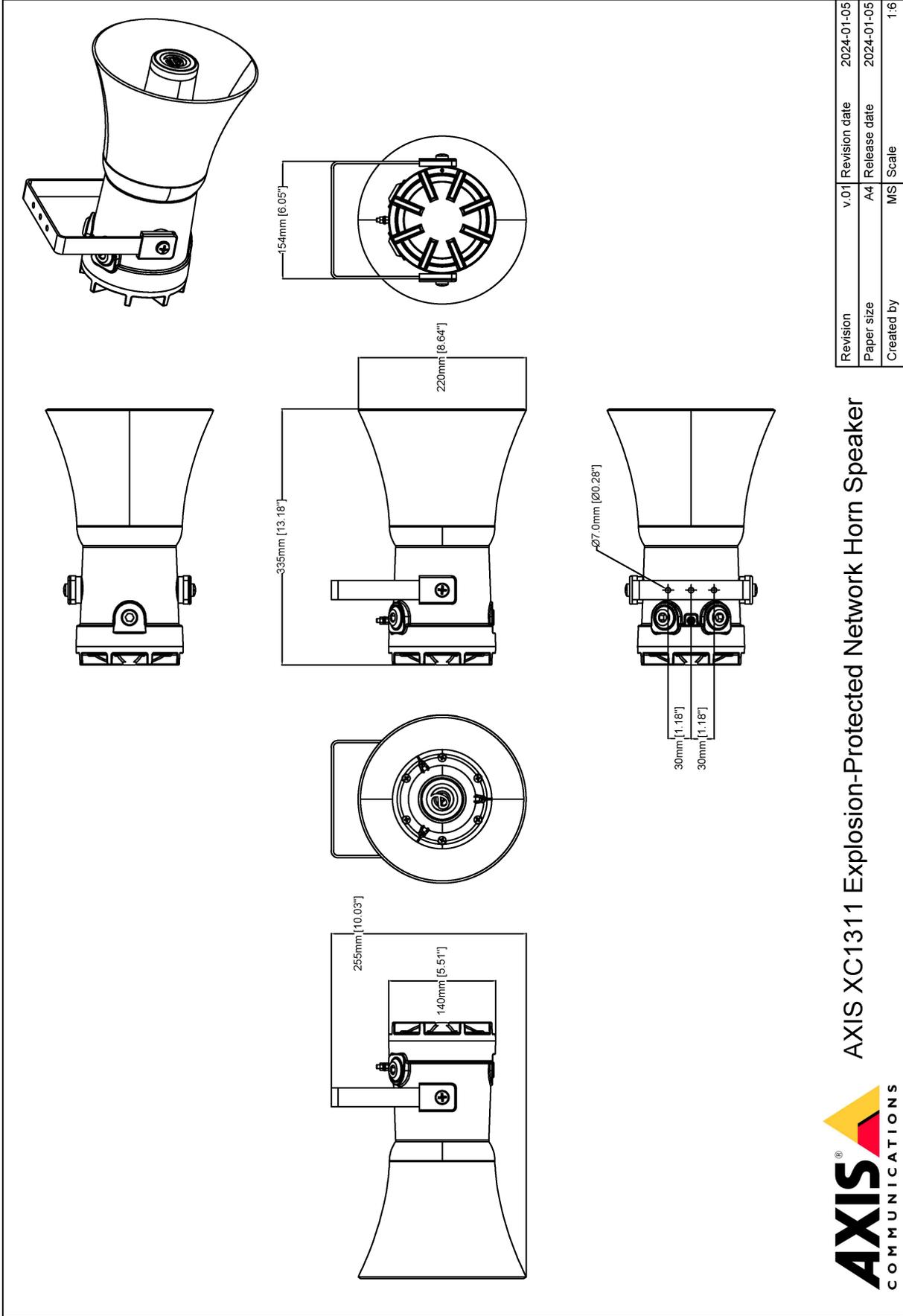
Casing	IP66-, IP67- and NEMA 4X-rated Impact-resistant aluminum
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	Color: RAL 3000 M20 cable side entries (x2) 1/2" NPT cable side entry (x1)
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 7 W, max 12.95 W
Connectors	Network: 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 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. Audio synchronization with IPv4 only.

Dimension drawing



Revision	v.01	Revision date	2024-01-05
Paper size	A4	Release date	2024-01-05
Created by	MS	Scale	1:6

AXIS COMMUNICATIONS
 www.axis.com

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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](https://www.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](https://www.axis.com/glossary)