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

AXIS XC1311 Explosion-Protected Horn Speaker

Audio hardware

Enclosure
Re-entrant horn loudspeaker with compression driver

Max sound pressure level
>110 dB at 1 m distance

Frequency response
400 Hz - 5.5 kHz

Coverage pattern
54°

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:
– 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®; specifications at *axis.com/developer-community*.
One-click cloud connection

Video management systems
Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' 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

Cybersecurity
ETSI EN 303 645, BSI IT Security Label, FIPS-140

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

Network

Network protocols
IPv4/v6[1], HTTP, HTTPS[2], SSL/TLS[2], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP[TM], SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, NTCIP, SIP

Cybersecurity

Edge security
Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 Client Credential Flow/OpenID Authorization Code Flow for centralized ADFS account management, password protection, Axis Cryptographic Module (FIPS 140-2 level 1)
Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), Axis device ID, secure keystore, secure boot

---

1. *Audio synchronization with IPv4 only.*
2. *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).*

Network security

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)[3], IEEE 802.1AR, HTTPS/HSTS[3], TLS v1.2/v1.3[3], 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*

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
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 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
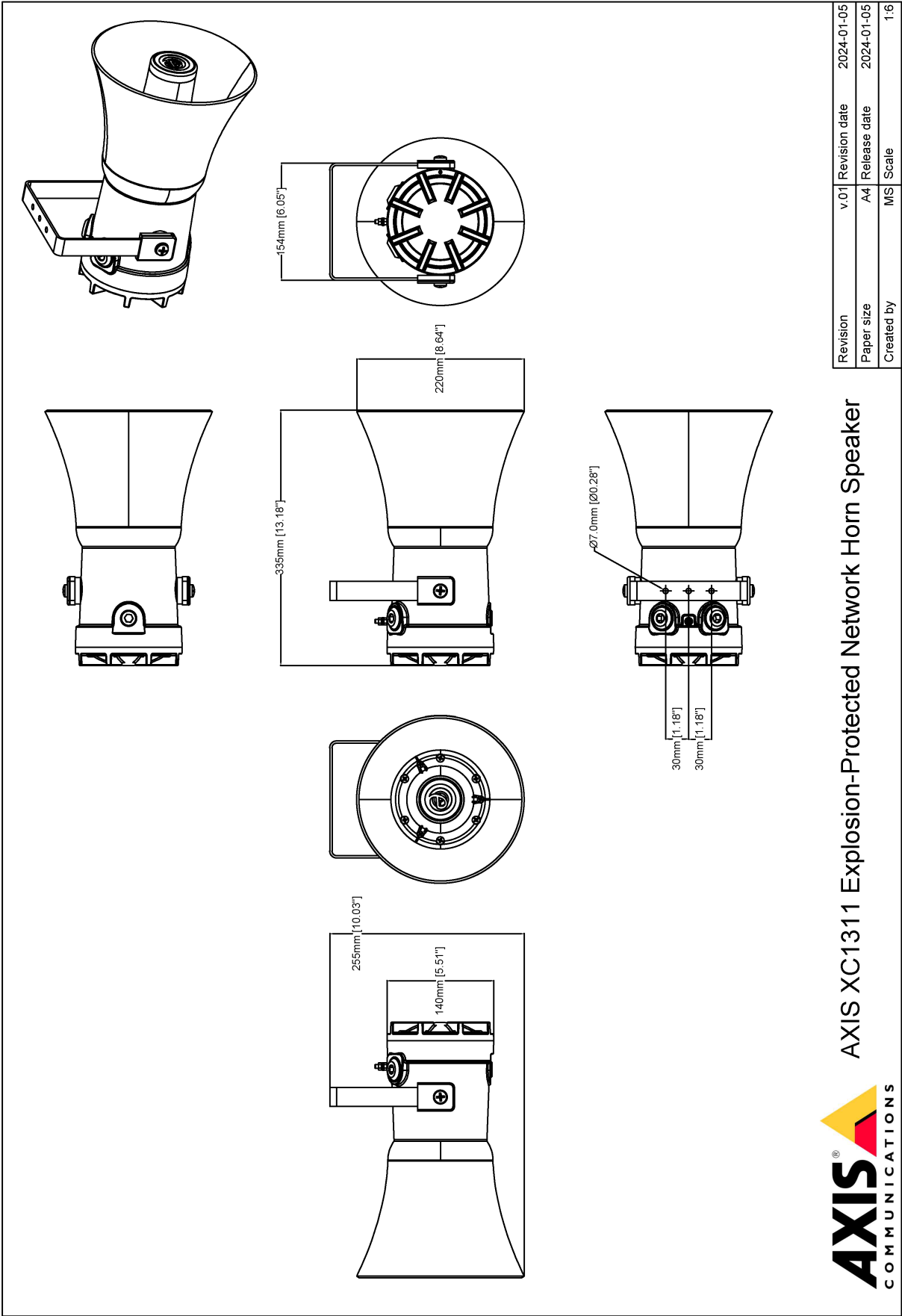To read more about sustainability at Axis, go to *axis.com/about-axis/sustainability*

Environmental responsibility
axis.com/environmental-responsibility
Axis Communications is a signatory of the UN Global Compact, read more at *unglobalcompact.org*

---

3. *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).*

Dimension drawing

154mm [6.05"]

220mm [8.64"]

335mm [13.18"]

⌀7.0mm [Ø0.28"]

30mm [1.18"]

30mm [1.18"]

255mm [10.03"]

140mm [5.51"]

AXIS XC1311 Explosion-Protected Network Horn Speaker

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

© 2024 Axis Communications

AXIS
COMMUNICATIONS

www.axis.com

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*

AXIS®
COMMUNICATIONS