

# **AXIS D3110 Mk II Connectivity Hub**

# Secure sensor and audio integration

AXIS D3110 Mk II gives sensor and audio capabilities to network video systems that don't have them or need additional ones — a perfect fit in an Axis end-to-end solution. It connects to a broad range of non-visual sensors to trigger alarms and events in the system. Connected to a microphone, a speaker, or both, AXIS D3110 Mk II increases scene awareness through high-quality audio. It supports ACAP (AXIS Camera Application Platform) and seamless integration through VAPIX®, MQTT, or SIP. Furthermore, Axis Edge Vault, a hardware-based cybersecurity platform, safeguards the device and protects sensitive information from unauthorized access.

- > Eight supervised configurable I/Os
- > Two audio-in ports, one audio-out port
- > VAPIX®, MQTT, SIP integration
- > AXIS Audio Analytics preinstalled
- > Built-in cybersecurity with Axis Edge Vault









# **AXIS D3110 Mk II Connectivity Hub**

# System on chip (SoC)

#### Model

NXP i.MX 8M Nano

#### Memory

1024 MB RAM, 1024 MB Flash

# Audio

# **Audio features**

Automatic gain control 10-band graphic equalizer for audio input Voice enhancer

# Audio streaming

Two-way, full duplex Simplex – speaker only Simplex – microphone only

# Audio input

Input 1: External microphone input or line input (balanced or unbalanced), digital audio input with optional 12 V ring power

Input 2: External microphone input or line input (balanced or unbalanced)

Microphone power 5 V on tip, phantom power 12 V on tip/ring, ring power 12 V for digital input on ring

#### Audio output

Line output

#### Audio encoding

AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Axis  $\mu$ -law 16 kHz, Opus 8/16/48 kHz

# **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 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

# I/O interface

### Configurable I/Os

2 x 6 pin connectors, each with ground, 12 V at max 50 mA and 4 supervised configurable I/Os

#### Relave

1 x SPDT relay, terminal block, max 1 A, max 30 V DC

#### RS485

RS485 or RS422 half/full duplex, max 460.8 kbps

# **Network**

### **Network protocols**

IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS<sup>1</sup>, HTTP/2, TLS<sup>1</sup>, 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)

<sup>1.</sup> 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).

# System integration

# **Application Programming Interface**

Open API for software integration, including VAPIX® and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community. 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.

#### **Event conditions**

Audio: audio clip playing

Audio analytics: audio level above threshold, glass break

detected, scream detected, shout detected

Call: state, state change

Device status: above/below/within operating

temperature, IP address blocked/removed, live stream active, network lost, new IP address, ring power

overcurrent protection, system ready

Digital audio: digital signal contains Axis metadata, digital signal has invalid sample rate, digital signal

missing, digital signal okay

Edge storage: recording ongoing, storage disruption,

storage health issues detected

I/O: digital input is active, digital output is active,

manual trigger, virtual input is active MQTT: MQTT client connected, stateless Scheduled and recurring: schedule

# **Event actions**

Audio clips: play audio clip, play audio clip while the rule is active, stop playing audio clip

ruic is active, stop playing audio clip

Calls: answer call, end SIP call, make SIP call 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

MQTT: send MQTT publish message Notification: HTTP, HTTPS, TCP and email

Recordings: record audio, record audio while the rule is

active

Security: erase configuration

SNMP trap messages: send, send while the rule is active

# **Analytics**

### **AXIS Audio Analytics**

**Features:** adaptive audio detection, audio classification **Audio classes:** scream, shout, glass break, speech

# **Approvals**

# **Product markings**

CSA, UL/cUL, CE, KC, VCCI, RCM

# Supply chain

TAA compliant

# **EMC**

EN 55035, EN 55032 Class A, EN 50121-4, EN 50130-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1,

EN 61000-6-2, IEC 62236-4

Australia/New Zealand: RCM AS/NZS CISPR 32 Class A

Canada: ICES(A)/NMB(A)
Japan: VCCI Class A

Korea: KS C 9835, KS C 9832 Class A USA: FCC Part 15 Subpart B Class A

# Safety

CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1

#### **Environment**

UL 2043 (plenum rating), IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-64, IEC/EN 60529 IP30

#### Network

NIST SP500-267

### Cybersecurity

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

# Cybersecurity

# **Edge security**

Software: Signed OS, 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+, FIPS 140-3 Level 3), system-on-chip security (TEE), Axis device ID, secure keystore, secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)

# **Network security**

IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2)<sup>2</sup>, IEEE 802.1AR, HTTPS/HSTS<sup>2</sup>, TLS v1.2/v1.3<sup>2</sup>, 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

IP30-rated aluminum casing Color: black NCS S 9000-N

# Mounting

AXIS T91A03 DIN Clip A Mounting bracket

#### **Power**

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3, typical 3 W, max 9.53 W or

10-28 V DC, typical 3 W, max 9.0 W

#### **Connectors**

Audio: 2 x 3.5 mm input, 1 x 3.5 mm output Data transfer: 1x USB 2.0 Type A, max load 500 mA, supported USB class: HID, Audio, Audio/Video Devices I/O: 2 x 6 pin terminal block for 4 supervised configurable I/Os

I/O: 1 x relay, terminal block

Network: 1 x Shielded RJ45 10BASE-T/100BASE-TX PoE

Power: DC input, terminal block

Serial communication: RS485/RS422, 2 pcs, 2 pos, full

duplex, terminal block

### Storage

Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit)

Recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com

# **Operating conditions**

Temperature: - 40 °C to 70 °C (-40 °F to 158 °F)

Start-up temperature: -20 °C (-4 °F) Humidity: 10–85% RH (non-condensing)

# Storage conditions

Temperature: -40 °C to 70 °C (-40 °F to 158 °F)

Humidity: 5-95% RH (non-condensing)

### **Dimensions**

For the overall product dimensions, see the dimension drawing in this datasheet.

# Weight

445 g (0.98 lb)

#### **Box content**

Installation guide, connectivity hub, connector kit

# **Optional accessories**

AXIS T91A03 DIN Clip A, AXIS TD3901 Strain Relief AXIS T8351 Mk II Microphone 3.5 mm, AXIS C8310 Volume Controller

**AXIS Surveillance Cards** 

For more accessories, go to axis.com/products/axis-d3110-mkii#compatible-products

### 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-d3110-mkii#part-numbers

# Sustainability

#### Substance control

PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard JS709

RoHS in accordance with EU RoHS Directive 2011/65/ EU and 2015/863, and standard EN IEC 63000:2018 REACH in accordance with (EC) No 1907/2006. For SCIP UUID, see *echa.europa.eu* 

<sup>2.</sup> 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).

# 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

WWW.cxxis.com T10212149/EN/M5.2/202507



