AXIS D3110 Connectivity Hub
Secure sensor and audio integration

AXIS D3110 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 increases scene awareness through high-quality audio. AXIS Camera Application Platform (version 4) supported by the device makes it possible to run customized applications, including in containerized environments. Integration is secure and seamless through VAPIX®, MQTT, or SIP. Built-in cybersecurity functionality prevents unauthorized access and safeguards the system.

> **Eight supervised configurable I/Os**
> **Two audio-in ports, one audio-out port**
> **VAPIX®, MQTT, SIP integration**
> **ACAP and container support**
> **Built-in cybersecurity features**

AXIS D3110 Connectivity Hub

System on chip (SoC)

Model
i.MX 6ULL

Memory
512 MB RAM, 512 MB Flash

Audio

Audio streaming
Two-way, full duplex

Audio encoding
24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz

Audio input/output
Input: 2 x 5V Unbalanced microphone / 12V Balanced Phantom power Microphone Input / 12V digital audio input/ Line in
Output: Line out

Network

Security
IP address filtering, HTTPS[1] encryption,
IEEE 802.1x (EAP-TLS)[1] network access control, user access log, centralized certificate management, Axis Edge Vault with Axis device ID

Network protocols
IPv4, IPv6 USGv6, HTTP, HTTPS[1], HTTP/2, SSL/TLS[1], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, SIP, LLDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS)

System integration

Application Programming Interface
Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at *axis.com*
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 triggers
External input, supervised external input, edge storage events, virtual inputs through API
Detectors: audio detection
Hardware: network, ring power overcurrent
Input Signal: virtual input, digital input, supervised input tampering, manual input
Storage: disruption, health issues detected, recording
System: system ready, new IP address, IP address removed, live stream active
Time: recurrence, use schedule
MQTT: stateful, stateless
Audio: audio clipp playing
Digital audio signal: invalid sample rate, contains axis metadata, missing, okay
SIP: call state

Event actions
Record audio: SD card and network share
Notification: email, HTTP, HTTPS, TCP and SNMP trap
External output activation, play audio clip, MQTT, make call, status LED

Filters
Voice enhancer, Automatic Gain Control (AGC), graphic equalizer

Approvals

EMC
CISPR 35, 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
Japan: VCCI Class A
Korea: KC KN32 Class A, KC KN35
USA: FCC Part 15 Subpart B Class A

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1. *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).*

Safety

CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1, UL 2043, UN ECE R118

Environment

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 60721-3-5 Class 5M3, IEC/EN 61373 Category 1 Class B, NEMA TS 2 (2.2.7-2.2.9)

Network

NIST SP500-267

Cybersecurity

ETSI EN 303 645, BSI IT Security Label

Cybersecurity

Edge security

Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption
Hardware: Secure boot

Network security

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

Aluminum casing
Color: black NCS S 9000-N

Mounting

T91A03 DIN Clip A
Mounting bracket

Power

Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3
Typical 4 W, max 12.95 W or
10–28 VDC, typical 5 W, max 13.5 W

Connectors

1 x Shielded RJ45 10BASE-T/100BASE-TX PoE
2 x 6-pin 2.5 mm terminal block for 8 x supervised configurable I/Os (12 VDC output, max load 50 mA)
2 x USB Type A, supported USB class:
HID, Audio, Audio/Video Device
1 x RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block
1 x form C relay, NO/NC, max 1 A, max 30 VDC
1 x DC input, terminal block
2 x 3.5 mm input
1 x 3.5 mm output

Storage

Support for microSD/microSDHC/microSDXC card

Operating conditions

- 40 °C to 65 °C (-40 °F to 149 °F)
Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)
Humidity 10–85% RH (non-condensing)

Storage conditions

-40 °C to 65 °C (-40 °F to 149 °F)
Humidity 5-95% RH (non-condensing)

Dimensions

Height: 42.2 mm (1.7 in)
Depth: 117.8 mm (4.6 in)
Width: 99 mm (3.9 in)

Weight

392 g (0.9 lb)

Included accessories

Installation guide, connector kit, terminal block connector

Optional accessories

DIN T91A03 Clip A
AXIS TD3901 Strain Relief
AXIS T8415 Wireless Installation Tool
AXIS Surveillance Cards
For more accessories, see *axis.com*

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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*

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*

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