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

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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[a] encryption, IEEE 802.1x (EAP-TLS)[b] network access control, user access log, centralized certificate management, Axis Edge Vault with Axis device ID
Network protocols	IPv4, IPv6 USGv6, HTTP, HTTPS[c], HTTP/2, SSL/TLS[d], 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
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)[e], HTTPS/HSTS[f], TLS v1.2/v1.3[g], 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 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*
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*

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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