

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)		Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Secure boot
Model	i.MX GULL	
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) ^a network access control, user access log, centralized certificate management, Axis Edge Vault with Axis device ID	
Network protocols	IPv4, IPv6 USGv6, HTTP, HTTPS ^a , HTTP/2, SSL/TLS ^a , 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	
Cybersecurity		
Edge security	Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization	
Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^a , HTTPS/HSTS ^a , TLS v1.2/v1.3 ^a , 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	
General		
Casing	Aluminum casing Color: black NCS S 9000-N	
Mounting	T91A03 DIN Clip A Mounting bracket	
Sustainability	PVC free, BFR/CFR free	
Power	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3 Typical 4 W, max 12.95 W or 10-28 V DC, 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 V DC output, max load 50 mA) 2 x USB Type A 1 x RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block 1 x relay, terminal block 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	

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 (ey@cryptsoft.com).