

# 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<sup>®</sup>, 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<sup>®</sup>, MQTT, SIP integration**
- > **ACAP and container support**
- > **Built-in cybersecurity features**



# AXIS D3110 Connectivity Hub

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|--|---|---|---|
| <b>System on chip (SoC)</b>              |   | <b>General</b>  |   |
| <b>Model</b>                             | i.MX GULL   | <b>Casing</b>   | Aluminum casing<br>Color: black NCS S 9000-N  |
| <b>Memory</b>                            | 512 MB RAM, 512 MB Flash  | <b>Mounting</b>   | T91A03 DIN Clip A<br>Mounting bracket   |
| <b>Audio</b>                             |   | <b>Sustainability</b>   | PVC free, BFR/CFR free  |
| <b>Audio streaming</b>                   | Two-way, full duplex  | <b>Power</b>  | Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3<br>Typical 4 W, max 12.95 W or<br>10–28 V DC, typical 5 W, max 13.5 W   |
| <b>Audio encoding</b>                    | 24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz   | <b>Connectors</b>   | 1 x Shielded RJ45 10BASE-T/100BASE-TX PoE<br>2 x 6-pin 2.5 mm terminal block for 8 x supervised configurable I/Os (12 V DC output, max load 50 mA)<br>2 x USB Type A<br>1 x RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block<br>1 x relay, terminal block<br>1 x DC input, terminal block<br>2 x 3.5 mm input<br>1 x 3.5 mm output  |
| <b>Audio input/output</b>                | Input: 2 x 5V Unbalanced microphone / 12V Balanced Phantom power Microphone Input / 12V digital audio input/ Line in<br>Output: Line out  | <b>Storage</b>  | Support for microSD/microSDHC/microSDXC card  |
| <b>Network</b>                           |   | <b>Operating conditions</b>   | - 40 °C to 65 °C (-40 °F to 149 °F)<br>Maximum temperature according to NEMA TS 2 (2.2.7): 74 °C (165 °F)<br>Humidity 10–85% RH (non-condensing)  |
| <b>Security</b>                          | IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>a</sup> network access control, user access log, centralized certificate management, Axis Edge Vault with Axis device ID  | <b>Storage conditions</b>   | -40 °C to 65 °C (-40 °F to 149 °F)<br>Humidity 5–95% RH (non-condensing)  |
| <b>Network protocols</b>                 | IPv4, IPv6 USGv6, HTTP, HTTPS <sup>a</sup> , HTTP/2, SSL/TLS <sup>a</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, Bonjour, UPnP <sup>®</sup> , 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, Syslog  | <b>Approvals</b>  | EMC<br>CISPR 35, EN 50121-4, EN 50130-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, IEC 62236-4, KC KN32 Class A, KC KN35, RCM AS/NZS CISPR 32 Class A, VCCI Class A<br>Safety<br>CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 62368-1, UL 2043<br>Environment<br>IEC 60068-2-1, IEC 60068-2-14, IEC 60068-2-2, IEC 60068-2-27, IEC 60068-2-6, NEMA TS 2 (2.2.7–2.2.9)<br>Network<br>NIST SP500-267 |
| <b>System integration</b>                |   | <b>Dimensions</b>   | Height: 42.2 mm (1.7 in)<br>Depth: 117.8 mm (4.6 in)<br>Width: 99 mm (3.9 in)   |
| <b>Application Programming Interface</b> | Open API for software integration, including VAPIX <sup>®</sup> and AXIS Camera Application Platform; specifications at <a href="http://axis.com">axis.com</a><br>One-click cloud connection<br>Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX.   | <b>Weight</b>   | 392 g (0.9 lb)  |
| <b>Event triggers</b>                    | External input, supervised external input, edge storage events, virtual inputs through API<br>Detectors: audio detection<br>Hardware: network, ring power overcurrent<br>Input Signal: virtual input, digital input, supervised input tampering, manual input<br>Storage: disruption, health issues detected, recording<br>System: system ready, new IP address, IP address removed, live stream active<br>Time: recurrence, use schedule<br>MQTT: stateful, stateless<br>Audio: audio clipp playing<br>Digital audio signal: invalid sample rate, contains axis metadata, missing, okay<br>SIP: call state | <b>Included accessories</b>   | Installation guide, connector kit, terminal block connector   |
| <b>Event actions</b>                     | Record audio: SD card and network share<br>Notification: email, HTTP, HTTPS, TCP and SNMP trap<br>External output activation, play audio clip, MQTT, make call, status LED  | <b>Optional accessories</b>   | DIN T91A03 Clip A<br>AXIS TD3901 Strain Relief<br>AXIS T8415 Wireless Installation Tool<br>AXIS Surveillance Cards<br>For more accessories, see <a href="http://axis.com">axis.com</a>  |
| <b>Filters</b>                           | Voice enhancer, Automatic Gain Control (AGC), graphic equalizer   | <b>Languages</b>  | English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese   |
| <b>Cybersecurity</b>                     |   | <b>Warranty</b>   | 5-year warranty, see <a href="http://axis.com/warranty">axis.com/warranty</a>   |
| <b>Edge security</b>                     | Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption<br>Hardware: Secure boot   | <p>a. <i>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).</i></p> <p>Environmental responsibility:<br/><a href="http://axis.com/environmental-responsibility">axis.com/environmental-responsibility</a></p> |   |
| <b>Network security</b>                  | IEEE 802.1X (EAP-TLS) <sup>a</sup> , HTTPS/HSTS <sup>a</sup> , TLS v1.2/v1.3 <sup>a</sup> , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering  |   |   |
| <b>Documentation</b>                     | AXIS OS Hardening Guide<br>Axis Vulnerability Management Policy<br>Axis Security Development Model<br>To download documents, go to <a href="http://axis.com/support/cybersecurity/resources">axis.com/support/cybersecurity/resources</a><br>To read more about Axis cybersecurity support, go to <a href="http://axis.com/cybersecurity">axis.com/cybersecurity</a>  |   |   |