

AXIS P8221 Network I/O Audio Module

Enhances video surveillance systems with additional I/O

AXIS P8221 Network I/O Audio Module provides additional I/O and audio capabilities to network video surveillance systems that do not have such support or require additional support. AXIS P8221 complements Axis network video products and integrates easily into existing network video installations using VAPIX[®]. AXIS P8221 has eight digital I/O ports that can be configured as inputs or outputs. Input ports can be connected to sensors such as door switches, smoke detectors or IR detectors. Output ports can be connected to control devices or relays, for instance to open/ close doors or to turn on/off lights, and control them remotely.

- > **Eight configurable digital I/O ports**
- > **Speaker output**
- > **Balanced microphone support**
- > **Power over Ethernet**



AXIS P8221 Network I/O Audio Module

I/O interface		On boot
Digital I/O	8 configurable I/O ports Input ports: min -40 V DC, max 40 V DC Output ports: Open-drain, max load 100 mA, max voltage 40 V DC	Event actions Notification: email, HTTP, TCP External output port Play audio clip
I/O functionality	Input trigger Output toggle/pulse	
Audio		
Audio streaming	Two-way, full and half duplex	
Audio compression	Encoding: AAC-LC 8, 16 or 32 kHz 8–128 kbit/s G.711 PCM 8 kHz 64 kbit/s G.726 ADPCM 8 kHz 32 or 24 kbit/s Decoding: G.711 PCM 8 kHz 64 kbit/s G.711 PCM 16 kHz 128 kbit/s G.726 ADPCM 8 kHz 32 or 24 kbit/s	
Audio input/output	Input: Microphone/Line in, 48 V phantom powered balanced microphone Output: Line out, Speaker 0,5 W RMS at 4 Ω	
Functionality	Audio streaming, play uploaded (WAV, AU) and record (AU) clips AU (G.711 μ-law 8-bit 8/16 kHz Mono), WAV (PCM 16-bit 8/16/32 kHz Mono) Audio detection trigger	
Network		
Security	Password protection, IP address filtering, HTTPS ^a encryption, IEEE 802.1X ^a network access control, digest authentication, user access log	
Supported protocols	IPv4/v6, HTTP, HTTPS ^a , SSL/TLS ^a , QoS Layer 3 DiffServ, FTP, SFTP, SMTP, Bonjour, UPnP TM , SNMP v1/v2c/v3 (MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS	
System integration		
Application Programming Interface	Open API for software integration, including VAPIX [®] ; specifications at www.axis.com	
Web browser	Configuration and management, I/O monitor/control, Two-way audio, Synchronize audio with external video source, Record (video and/or audio) to file (ASF)	
System requirements	AXIS Media Control (AMC) is required to access live video and audio in Live view	
Event triggers	Audio detection External inputs	
General		
Casing	Metal casing, standalone or wall mount	
Memory	64 MB RAM, 128 MB Flash	
Power	8–34 V DC, max 8.2 W 20–24 V AC, max 13.7 VA Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3	
Connectors	RJ45 10BASE-T/100BASE-TX PoE Terminal blocks: power (8–34 V DC/ 20–24 V AC), I/O, Balanced microphone, Speaker out, RS232/RS485/RS422 serial port 3.5 mm mic/line in, 3.5 mm line out	
Operating conditions	0 °C to 50 °C (32 °F to 122 °F) Humidity 20–80% RH (non-condensing)	
Approvals	EN 55022, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, FCC Part 15 Subpart B Class B, ICES-003 Class B, VCCI Class B, RCM AS/NZS CISPR 22 Class BEN 60950-1	
Dimensions	98,9 x 118 x 31,4 mm (3.9 x 4.6 x 1.3 in)	
Weight	335 g (0.7 lb)	
Included accessories	Power supply, Mounting and connector kits, Installation guide, Windows decoder user license	
Optional accessories	For more accessories, see www.axis.com	
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese	
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty	
<p>a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (www.openssl.org), and cryptographic software written by Eric Young (ey@cryptsoft.com).</p>		
Environmental responsibility:		
www.axis.com/environmental-responsibility		