

AXIS P8221 Network I/O Audio Module

Enhances video surveillance systems with additional I/O and superb audio quality.



- > Eight configurable digital I/O ports
- > Superb audio quality
- > Speaker output
- > Balanced microphone support
- > Power over Ethernet
- > Control over legacy equipment

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 either 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.

AXIS P8221 provides two-way audio in half or full duplex. Audio can be encoded in high quality AAC at up to 128 kbit/s bit rate with 32 kHz sampling.

AXIS P8221 has a built-in pre-amplifier and phantom power which eliminates the need for an external power solution when using balanced microphones, and can provide savings in installation costs. The input for the balanced microphone has an adjustable gain to allow for improved adaptation of microphones with different output levels.

AXIS P8221 has support for Power over Ethernet allowing easy, cost-efficient and reliable installation.

With the built-in serial server support, AXIS P8221 enables legacy devices and temperature sensors to be connected to the system using RS-232, RS-422 and RS-485.



Technical specifications – AXIS P8221 Network I/O Audio Module

Digital I/O

I/O linterface 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

I/O functionality Input trigger, output toggle/pulse

Audio

Audio streaming Two-way, full and half duplex

Audio 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

Audio 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 Microphone/Line in
48 V phantom powered balanced microphone

Audio output Line out
Speaker 0,5 W RMS at 4 Ω

Audio 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 encryption,
IEEE 802.1X network access control, digest authentication,
user access log

Supported protocols IPv4/v6, HTTP, HTTPS, QoS layer 3 DiffServ, FTP, SMTP, Bonjour,
UPnP, SNMPv1/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® from Axis
Communications available 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 Windows XP, Vista, 2000, Server 2003
DirectX 9c or higher, Internet Explorer required for audio support
For other operating systems and browsers see
www.axis.com/techsup

Alarm triggers Audio detection, external inputs, on boot

Alarm events Notification via email, HTTP and TCP
External output port
Play audio clip

General

Casing Metal casing. Standalone or wall mount

Processor and memory ARTPEC-3, 64 MB RAM, 128 MB Flash

Power 8-34 V DC, max. 8.2 W or
20-24 V AC, max 13.7 VA or
Power over Ethernet IEEE 802.3af Class 3

Connectors RJ-45 10BASE-T/100BASE-TX PoE
Terminal blocks: power (8-34 V DC/ 20-24 V AC), I/O, balanced
microphone, speaker out, RS-232/RS-485/ RS-422 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 Class B, EN 61000-3-2, EN 61000-3-3, EN 55024, EN
61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B,
ICES-003 Class B, VCCI Class B, C-tick AS/NZS CISPR 22, EN
60950-1
Power supply PS-T: EN 60950-1, CSA, C/US

Dimensions (HxWxD) 32 x 99 x 118 mm (1.3" x 3.9" x 4.6")

Weight 335 g (0.7 lb.)

Included accessories Power supply, mounting and connector kits, Installation Guide,
CD with installation and management tools, software and User's
Manual, 1 Windows decoder user license

More information is available at www.axis.com

