AXIS Q7424-R Mk II Video Encoder

Full-featured video surveillance for tough environments

> Rugged design

> Extended temperature range

> SFP slot for fiber connection

> Edge storage

> AXIS Camera Application Platform

> Power over Ethernet

AXIS Q7424-R Mk II Video Encoder is a rugged one-to-four-channel standalone solution that enables flexible migration of analog cameras into an IP-based video surveillance system in challenging conditions. The video encoder is ideal for demanding applications such as traffic monitoring, city surveillance and airports.

AXIS Q7424-R Mk II is designed specifically to withstand tough environments including vibrations, shocks and extreme temperatures. The video encoder operates in temperatures from -40 °C to 75 °C (-40 °F to 167 °F).

The video encoder offers H.264 and Motion JPEG streams at full frame rate in all resolutions up to D1 (720x480 NTSC or 720x576 PAL). H.264 greatly optimizes bandwidth and storage use without compromising image quality, while Motion JPEG is supported for increased flexibility.

AXIS Q7424-R Mk II offers powerful event management capabilities with intelligent video features such as tampering alarm, motion detection and audio detection, in addition to AXIS Camera Application platform applications.

AXIS Q7424-R Mk II features an SFP slot for fiber connection, which gives installers flexibility to connect the video encoders cost-effectively to the network over long distances. In addition, AXIS Q7424-R Mk II has support for Power over Ethernet, which simplifies installation since only one cable is required for power.

All four video channels provide pan, tilt and zoom support, enabling control of analog PTZ and PTZ dome cameras. The video encoder also includes a built-in memory card slot for edge storage.

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Technical Specifications - AXIS Q7424-R Mk II Video Encoder

Video

Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline and Main Profile Motion JPEG
Resolutions	176x120 to 720x576 176x120 to 1536x1152 for quad view
Frame rate	**H.264:** 25/30 (50/60 Hz) fps 15 fps in quad view in full resolution **Motion JPEG:** 25/30 (50/60 Hz) fps 15 fps in quad view in full resolution
Video streaming	Multi-stream H.264 and Motion JPEG: One H.264 and one JPEG stream on each channel (8 streams in total) in full frame rate Individually configured streams in max. resolution at 25/30 fps; more streams if identical or limited in frame rate/resolution Controllable frame rate and bandwidth; VBR/CBR H.264
Image settings	Compression, Color, Brightness, Contrast, Aspect ratio correction, Mirroring of images, Text and image overlay, Privacy mask, Enhanced deinterlace filter, Video termination, Anti-aliasing, Temporal noise filtering Rotation: 90°, 180°, 270°
Pan/Tilt/Zoom	Wide range of analog PTZ cameras supported (drivers available for download at www.axis.com) 100 presets/camera, Guard tour, PTZ control queue Supports Windows compatible joysticks

Audio

Audio streaming	Two-way
Audio compression	AAC-LC 8/16 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz Configurable bit rate
Audio input/output	One external microphone or line input and one line output

Network

IP address	One IP address for four channels
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], QoS Layer 3 DiffServ, FTP, CIFS/SMB, 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® and AXIS Camera Application Platform; specifications at www.axis.com AXIS Video Hosting System (AVHS) with One-Click Camera Connection ONVIF Profile S; specification at www.onvif.org
Intelligent video	Video motion detection, Active tampering alarm, Audio detection, AXIS Camera Application Platform (on one channel)
Event triggers	Intelligent video, External inputs, Video loss

Event actions	File upload: FTP, HTTP and email Notification: email, HTTP and TCP Video and audio recording to edge storage Pre- and post-alarm video buffering PTZ preset, External output activation
Data streaming	Event data

General

Casing	Standalone, aluminum casing
Memory	512 MB RAM, 128 MB Flash
Power	8–28 V DC, max. 10 W, 20–24 V AC, max. 15.6 VA Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3
Connectors	4 x Analog composite video BNC inputs Terminal block for mono microphone or line input, 6 Vpp max. Terminal block for mono audio output, 2 Vpp max. at 1 kohm 10BASE-T/100BASE-TX PoE Terminal block for four configurable external inputs/outputs Terminal block for RS485/RS422 (full duplex) AC/DC input terminal block 100/1000 Mbps SFP slot
Edge storage	SD/SDHC/SDXC slot supporting memory card up to 64 GB (card not included), Support for recording to dedicated network-attached storage (NAS)
Operating conditions	-40 °C to 75 °C (-40 °F to 167 °F) Humidity 10–95% RH (non-condensing)
Approvals	EN 55022 Class B, EN 50121-4, 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, KCC KN22 Class B, KN24, IEC/EN/UL 60950-1, EN 50155 (Vibration and Shock Category 1 Class B, Temperature Class TX), NEMA TS 2 (vibration, shock, temperature, humidity), IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-30, IEC 60068-2-64, IEC 60068-2-78, CEN/TS 45545-2
Weight	0.8 kg (1.7 lb)
Included accessories	Installation Guide, Installation and Management Software CD, Windows decoder user license
Optional accessories	AXIS T8310 Video Surveillance Control Board
Video management software	AXIS Camera Station and video management software from Axis' Application Development Partners (not included). For more information, see www.axis.com/products/video/software
Warranty	Axis 3-year warranty and AXIS Extended Warranty option, see www.axis.com/warranty

a. This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/), and cryptographic software written by Eric Young (eay@cryptsoft.com).

More information is available at www.axis.com

Dimensions

1. Video inputs
2. I/O
3. Audio
4. SFP
5. RS485/RS422
6. Power
7. Network (PoE)

135 mm (5.3 in)
167 mm (6.6 in)
157 mm (6.2 in)
45 mm (1.8 in)

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