

AXIS M7104 Video Encoder

Cost-effective, 4-channel video encoder with Zipstream

AXIS M7104 is a cost-effective, 4-channel video encoder that adds the benefits of IP surveillance to an analog camera system. It supports standard-resolution analog cameras as well as PTZ control over RS-485/422. The encoder features a memory card slot for edge storage and support for intelligent analytics such as motion detection and active tampering alarm. Enhanced security features such as signed firmware and secure boot ensure the integrity and authenticity of the encoder's firmware. Plus, Zipstream with support for H.264/H.265 video compression significantly reduces bandwidth and storage requirements.

- > Full frame rate in all resolutions
- > Zipstream with support for H.264/H.265
- > Signed firmware and secure boot
- > Extended capacity for analytics
- > PoE and PTZ support





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System on chip	o (SoC)		Code Flow for centralized ADFS account management, password	
Model	ARTPEC-7		protection, AES-XTS-Plain64 256bit SD card encryption	
Memory	1024 MB RAM, 512 MB Flash Battery backed-up real-time clock	Network security	Hardware: Secure boot IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^a , IEEE 802.1AR,	
Video			HTTPS/HSTS ^a , TLS v1.2/v1.3 ^a , Network Time Security (NTS), X.509 Certificate PKI, IP address filtering	
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles H.265 (MPEG-H Part 2/HEVC) Main Profile Motion JPEG	Documentation	· · · · · · · · · · · · · · · · · · ·	
Resolution	176x144/176x120 (PAL/NTSC) to 720x576/720x480 (PAL/NTSC)			
Frame rate	25/30 fps in all resolutions Up to 30 fps in quad view in full resolution			
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265 Controllable frame rate and bandwidth VBR/MBR H.264/H.265 Quad view	Goneral		
		Casing	Stand alone, metal casing, wall mount	
		Sustainability	PVC free	
		Power	8-28 V DC, max 4.7 W	
lmage settings	Compression, color, brightness, contrast, rotation: 0°, 90°, 180°, 270°, aspect ratio correction, mirroring of images, text and image overlay, privacy mask, enhanced deinterlace filter, video termination, anti-aliasing, sharpness, noise reduction, local enhancement		Power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3	
		Connectors	Four analog composite video BNC input RJ45 10BASE-T/100BASE-T/1000 BASE-T PoE RS485/RS422, 2 pcs, 2 pos, full duplex, terminal block	
Pan/Tilt/Zoom	Wide range of analog PTZ cameras supported, drivers included in the firmware Up to 100 preset positions/camera, Guard tour, PTZ control queue Supports Windows compatible joysticks	Storage	Support for microSD/microSDHC/microSDXC card Support for SD card encryption (AES-XTS-Plain64 256bit) Support for recording to network-attached storage (NAS) For SD card and NAS recommendations see axis.com	
Network		Operating	0 °C to 50 °C (32 °F to 122 °F)	
IP address	One IP address for four channels	conditions	Humidity 10-85% RH (non-condensing)	
Security	IP address filtering, HTTPS ^a encryption, IEEE 802.1X ^a network access control, user access log, centralized certificate	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non condensing) EMC EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, RCM AS/NZS CISPR 32 Class A, KC KN32 Class A, KC KN35 Safety IEC/EN/UL 62368-1	
Network	management IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS ^a , TLS ^a , QoS Layer	Approvals		
protocols	3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SSH	!		
System integration			Environment	
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com AXIS Video Hosting System (AVHS) with One-Click Camera Connection One-click cloud connection		IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-7, IEC 60068-2-78 Network NIST SP500-267	
		Dimensions	187 x 37 mm (7.4 x 1.5 in)	
	ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and ONVIF® Profile T, specification at <i>onvif.org</i>	Weight	650 g (1.4 lb)	
Event triggers	Analytics, video loss, edge storage events MQTT subscribe	Included accessories	Installation guide, Windows® decoder 1-user license, DC input plug, 2 pcs 2-pin RS485/RS422 plugs	
Event actions	File upload: FTP, SFTP, HTTP, HTTPS network share and email Notification: email, HTTP, HTTPS and TCP External output activation MQTT publish Pre- and post-alarm video buffering	Optional accessories	For more accessories, see axis.com	
		Video management software	AXIS Companion, AXIS Camera Station, Video management software from Axis Application Development Partners available at axis.com/vms	
Data stranger	PTZ preset Status LED	Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai,	
Data streaming	Event data		Vietnamese	
Analytics	lashidad	Warranty	Axis 3-year warranty, see axis.com/warranty	
Applications	Included AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard AXIS Video Motion Detection, active tampering alarm Supported Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	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 (eay@cryptsoft.com).		



Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization

Cybersecurity

Edge security