

## **AXIS M7116 Video Encoder**

Cost-effective, 16-channel video encoder with Zipstream

AXIS M7116 is a cost-effective, 16 channel video encoder that adds the benefits of IP surveillance to analog camera systems. It supports standard resolution analog cameras as well as PTZ control over RS-485. This rack-mounted encoder features memory card slots for edge storage as well as support for intelligent analytics such as motion detection and active tampering alarm. Including Zipstream with H.264/H.265, it significantly reduces bandwidth and storage requirements without compromising image quality. Furthermore, it offers enhanced security features such as signed firmware and secure boot.

- > 30 fps on all 16 channels
- > PTZ control
- > Zipstream with support for H.264/H.265
- > Signed firmware and secure boot
- > Support for intelligent analytics





## **AXIS M7116 Video Encoder**

System on chip	o (SoC)		Australia/New Zealand: RCM AS/NZS CISPR 32 Class A
Model	ARTPEC-7		Japan: VCCI Class A Korea: KC KN32 Class A, KC KN35
Memory	1024 MB RAM, 512 MB Flash Battery backed-up real-time clock	Safety	IEC/EN/UL 62368-1
Video	battery backed up real time clock	Environment	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78
Video compression	H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High profiles H.265 (MPEG-H Part 2/HEVC) Main profile	Network	NIST SP500-267
compression	Motion JPEG	Cybersecurity	ETSI EN 303 645, BSI IT Security Label
Resolution	176x144/176x120 (PAL/NTSC) to 720x576/720x480 (PAL/NTSC)	Cybersecurity	213. 2.1 333 3.15 25. 11 Security Edge.
Frame rate	25/30 fps in all resolutions Up to 30 fps in quad view in full resolution	Edge security	Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization
Video streaming	Multiple, individually configurable streams in H.264, H.265 and Motion JPEG Axis Zipstream technology in H.264 and H.265		Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Secure boot
	Controllable frame rate and bandwidth VBR/ABR/MBR H.264/H.265 Quad view	Network security	IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) <sup>e</sup> , IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS <sup>f</sup> , TLS v1.2/v1.39, Network Time Security (NTS), X.509 Certificate PKI,
Image settings	Rotation: 0-, 90-, 180-, 270-, de-interlace filter, compression, color, brightness, contrast, aspect ratio correction, mirroring of images, text and image overlay, polygon privacy mask, video termination, sharpness, noise reduction	Documentation	host-based firewall  AXIS OS Hardening Guide Axis Vulnerability Management Policy Axis Security Development Model AXIS OS Software Bill of Material (SBOM) To download documents, go to axis.com/support/cybersecurity/resources To read more about Axis cybersecurity support, go to axis.com/cybersecurity
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		
Network		General	unis.com/cyocraccumcy
IP address	Four IP address, one per four channels	Casing	Metal casing 1U stand alone, rackmount or wallmount
Security	IP address filtering, HTTPS <sup>a</sup> encryption, IEEE 802.1x (EAP-TLS) <sup>b</sup> , network access control, user access log, multi-level user	Contain ability	Color: white NCS S 1002-B  PVC free
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS <sup>c</sup> , TLS <sup>d</sup> , QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP <sup>®</sup> , SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)	Sustainability Power	max 26 W
		Connectors	16 pcs analog video BNC inputs 1 pc 1000 BASE-TX Ethernet (RJ45) 4 pcs terminal block for RS485/RS422 serial communication (full duplex)
System integration			1 pc DC input terminal block
Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com One-click cloud connection	Storage	Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) For SD card and NAS recommendations see <i>axis.com</i>
	ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at <i>onvif.org</i>	Operating conditions	0 °C to 50 °C (32 °F to 122 °F) Humidity 10–85% RH (non-condensing)
Video management	Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software	Storage conditions	-40 °C to 65 °C (-40 °F to 149 °F) Humidity 5-95% RH (non-condensing)
systems	from Axis' partners available at axis.com/vms.	Dimensions	44 x 145 x 440 mm (1.7 x 5.7 x 17.3 in)
Event conditions	Device status: IP address removed, network lost, new IP address, storage failure, system ready	Weight	2050 g (4.5 lb)
	Edge storage: recording ongoing, storage disruption I/O: manual trigger, virtual input MQTT subscribe	Included accessories	Installation guide, Windows® decoder 1-user license, DC input plug, 8 pcs 2-pin RS485/RS422 plugs, mains power supply, mounting and connector kit
	PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready Scheduled and recurring: scheduled event	Optional accessories	For accessories, see axis.com
Event actions	Video: average bitrate degradation, live stream open, tampering Video encoder: video connected  Guard tours, upload of images or video clips, notification, overlay	Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai,
EVENT ACTIONS	text, preset positions, recordings, SNMP trap messages, status LED, video clips MQTT publish	Warranty	Vietnamese 5-year warranty, see axis.com/warranty
Data streaming	Event data	a. This product inclu	udes software developed by the OpenSSL Project for use in the
Analytics		UpenSSL 1001kit. (eay@cryptsoft.c	(openssl.org), and cryptographic software written by Eric Young
Applications	Included AXIS Video Motion Detection, active tampering alarm Support for AXIS Camera Application Platform enabling installation of third-party applications, see axis.com/acap	<ul> <li>This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssLorg), and cryptographic software written by Eric Young (eay@cryptsoft.com).</li> <li>This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (openssLorg), and cryptographic software written by Eric Young (eay@cryptsoft.com).</li> </ul>	
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Approvals **EMC** 

EN 55032 Class A, EN 61000-3-2, EN 61000-3-3, EN 55035,

EN 61000-6-1, EN 61000-6-2 USA: FCC Part 15 Subpart B Class A Canada: ICES-3(A)/NMB-3(A)

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