

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

| ∕lodel | ARTPEC-7 |
|---|--|
| Memory | 1024 MB RAM, 512 MB Flash |
| , | Battery backed-up real-time clock |
| rideo | |
| /ideo compression | H.264 (MPEG-4 Part 10/AVC) Baseline, Main and High profiles H.265 (MPEG-H Part 2/HEVC) Main profile Motion JPEG |
| Resolution | 176x144/176x120 (PAL/NTSC) to 720x576/720x480 (PAL/NTSC) |
| rame 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/ABR/MBR H.264/H.265 Quad view |
| lmage 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 |
| 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 | |
| IP address Security | Four IP address, one per four channels IP address filtering, HTTPS ^a encryption, IEEE 802.1x (EAP-TLS) ^a , |
| • | network access control, user access log, multi-level user |
| Network protocols | IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPS ^a , TLS ^a , QoS Layer 3 DiffServ, FTP, SFTP, CTFS/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, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf) |
| System integra | tion |
| Application Programming Interface | Open API for software integration, including VAPIX® and AXIS Camera Application Platform; specifications at axis.com One-click cloud connection ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S, and ONVIF® Profile T, specification at onvif.org |
| Event conditions | Device status: IP address removed, network lost, new IP address, storage failure, system ready Edge storage: recording ongoing, storage disruption I/O: manual trigger, virtual input MQTT subscribe PTZ: PTZ malfunctioning, PTZ movement, PTZ preset position reached, PTZ ready Scheduled and recurring: scheduled event Video: average bitrate degradation, live stream open, tampering Video encoder: video connected |
| Event actions | Guard tours, upload of images or video clips, notification, overlay text, preset positions, recordings, SNMP trap messages, status LED, video clips MQTT publish |
| Data streaming | Event data |
| Analytics | |
| 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 |
| Approvals | |
| | |
| MC | 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) Australia/New Zealand: RCM AS/NZS CISPR 32 Class A Japan: VCCI Class A Korea: KC KN32 Class A, KC KN35 |
|---|---|
| Safety | IEC/EN/UL 62368-1 |
| Environment | 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 |
| Cybersecurity | ETSI EN 303 645 |
| Cybersecurity | |
| Edge security | Software: Signed firmware, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 OpenID Authorization Code Flow for centralized ADFS account management, password protection, AES-XTS-Plain64 256bit SD card encryption Hardware: Secure boot |
| Network security | IEEE 802.1X (EAP-TLS, PEAP-MSCHAPv2) ^a , IEEE 802.1AE (MACsec PSK/EAP-TLS), HTTPS/HSTS ^a , TLS v1.2/v1.3 ^a , Network Time Security (NTS), X.509 Certificate PKI, host-based firewall |
| Documentation | 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 |
| General | |
| Casing | Metal casing 1U stand alone, rackmount or wallmount Color: white NCS S 1002-B |
| | |
| Sustainability | PVC free |
| Sustainability Power | max 26 W |
| | |
| Power | max 26 W 16 pcs analog video BNC inputs 1 pc 1000 BASE-TX Ethernet (RJ45) 4 pcs terminal block for RS485/RS422 serial communication (full duplex) |
| Power Connectors | max 26 W 16 pcs analog video BNC inputs 1 pc 1000 BASE-TX Ethernet (RJ45) 4 pcs terminal block for RS485/RS422 serial communication (full duplex) 1 pc DC input terminal block Support for microSD/microSDHC/microSDXC card and encryption Recording to network-attached storage (NAS) |
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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).

