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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





AXIS M7104 Video Encoder

System on chip (SoC)

Model
ARTPEC-7

Memory
1024 MB RAM, 512 MB Flash
Battery backed-up real-time clock

Video

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

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

Image 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

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
One IP address for four channels

Security
IP address filtering, HTTPS[1] encryption, IEEE 802.1X[1] network access control, user access log, centralized certificate management

Network protocols
IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS[1], TLS[1], QoS Layer 3 DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCP, ARP, SSH

System integration

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
ONVIF® Profile G, ONVIF® Profile M, ONVIF® Profile S and ONVIF® Profile T, specification at *onvif.org*

Video management systems
Compatible with AXIS Camera Station Edge, AXIS Camera Station Pro, AXIS Camera Station 5, and video management software from Axis' partners available at *axis.com/vms*.

Event triggers
Analytics, video loss, edge storage events
MQTT subscribe

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
PTZ preset
Status LED

1. *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).*

Data streaming
Event data

Analytics

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*

Cybersecurity

Edge security
Software: Signed OS, brute force delay protection, digest authentication and OAuth 2.0 RFC6749 Client Credential Flow/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)[2], IEEE 802.1AE (MACsec PSK/EAP-TLS), IEEE 802.1AR, HTTPS/HSTS[2], TLS v1.2/v1.3[2], 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
Stand alone, metal casing, wall mount

Sustainability
PVC free

Power
8–28 V DC, max 4.7 W 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

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*

Operating conditions
0 °C to 50 °C (32 °F to 122 °F)
Humidity 10–85% RH (non-condensing)

Storage conditions
-40 °C to 65 °C (-40 °F to 149 °F)
Humidity 5–95% RH (non condensing)

Approvals
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
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
Network
NIST SP500-267

Dimensions
187 x 37 mm (7.4 x 1.5 in)

Weight
650 g (1.4 lb)

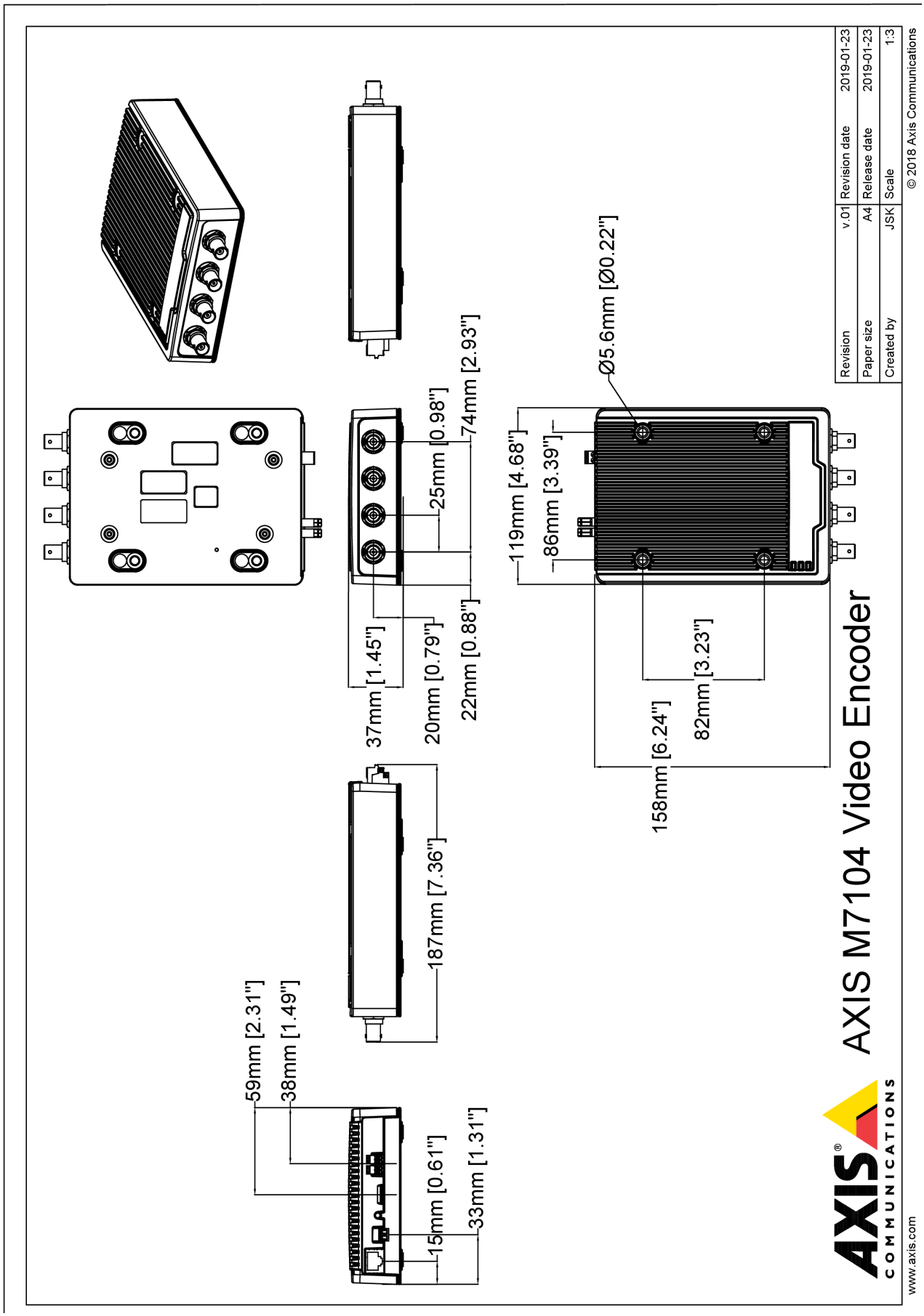
Included accessories
Installation guide, Windows® decoder 1-user license, DC input plug, 2 pcs 2-pin RS485/RS422 plugs

Optional accessories
For more accessories, see *axis.com*

2. *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).*

Languages
English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese

Warranty
Axis 3-year warranty, see *axis.com/warranty*



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