zenitel

DATASHEET

2310102134

P7304 Four Channel Video Encoder

Encoder



- Support for HD analog cameras up to 4K
- PTZ control
- 2-way audio and configurable I/O
- Zipstream with support for H.264/H.265
- Signed firmware and secure boot

ONVIF Conformant H.264

Description

The P7304 Four Channel Video Encoder is a full-featured, 4-channel video encoder that adds the benefits of IP surveillance to any analog camera system. It supports standard and HD analog cameras up to 4K resolution, and analog PTZ cameras. The enhanced security features such as signed firmware and secure boot protect the integrity and authenticity of the encoder's firmware.

P7304 Four Channel Video Encoder

The encoder has Zipstream with support for H.264/H.265 video compression which significantly reduces bandwidth and storage requirements. It features two-way audio, I/O ports, and a memory card slot for edge storage. It also comes with intelligent analytics such as motion detection, audio detection, and tampering alarm.

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Specifications

SYSTEM ON CHIP (SOC)	
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)
	Also high definition TVI, high definition CVI and high definition analog HD (1280x720 and 1920x1080)
	One channel 4K (3840x2160)
Frame rate	25/30 fps in all resolutions up to 1080p
	Up to 30 fps in quad view in full resolution 1080p
	One channel 4K up to 15 fps
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

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Image settings	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
	Compatible with Coaxitron® by Pelco

AUDIO

Audio encoding	24bit LPCM, AAC-LC 8/16/32/48 kHz, G.711 PCM 8 kHz, G.726 ADPCM 8 kHz, Opus 8/16/48 kHz
	Configurable bit rate
Audio input/output	Two analog or digital external microphone input or line input, line output.

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NETWORK

IP address	One IP address for four channels
Security	IP address filtering, HTTPSa encryption, IEEE 802.1Xa network access control, user access log, centralized certificate management
Network protocols	IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTP/2, HTTPSa, TLSa, QoS Layer 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, DHCPv4/v6, ARP, SSH, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf)

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SYSTEM INTEGRATION

Application Programming Interface	Open API for software integration, including VAPIX® and AXIS Camera Application Platform; 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
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
Data streaming	Event data

ANALYTICS

Applications	Included
	AXIS Motion Guard, AXIS Fence Guard, AXIS Loitering Guard, AXIS Video Motion Detection Support for AXIS Camera Application Platform enabling installation of third-party applications

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CYBERSECURITY

Edge security	Software: Signed firmware, brute force delay protection, digest authentication, password protection, AES-XTS-Plain64 256bit SD card encryption
	Hardware: Secure boot
Network security	IEEE 802.1X (EAP-TLS)a, IEEE 802.1AR, HTTPS/HSTSa, TLS v1.2/v1.3a, Network Time Security (NTS), X.509 Certificate PKI, IP address filtering

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GENERAL

Casing	Stand alone, metal casing, wall mount
Sustainability	PVC free
Power	8-28 V DC, max 8.2 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
	6-pin 2.5 mm I/O terminal block with four configurable inputs and outputs
	2 pcs 3.5 mm mic/line in, 1 pcs 3.5 mm line out
	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
Operating conditions	0 °C to 50 °C, Humidity 10-85% RH (non-condensing)
Storage conditions	-40 °C to 65 °C, Humidity 5-95% RH (non condensing)
Dimensions	187 x 37 mm
Weight	650 g
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Traditional Chinese

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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

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