

PROIP-ENC

ENCIPHER Professional Dual Channel IP Encoder

Overview:

The DTC professional dual channel HD IP encoder is a feature-rich device that is ideal for live video streaming and surveillance applications. The unit combines broadcast quality H.264 dual-HD video encoders, composite video, low delay, Power over Ethernet and camera control all in a highly compact form factor. ENCIPHER offers software selectable audio source, embedded or analogue audio, for each encoder channel.

The encoder can operate in a variety of transmission bandwidths, from 100kbps to 50Mbps, allowing the user to configure the system according to the application requirements.



Features and Benefits:

Advanced Audio Coding (AAC) and G711 codec for any audio

G.726 codec for analogue audio

Dual high profile HD H.264 independent video encoders

Streaming suitable for approved 4G LTE USB dongles

FCON capable

NTP server for accurate synchronisation to UTC time

Generic UDP TCP pipe for serial data over IP

From 100 kbps IP streaming suitable for external 3G, 4G LTE modems

Adaptive bitrate

Power over Ethernet

Up to two simultaneous IP streams – RTSP, UDP, unicast and multicast

Two HD-SDI, two composite, single HDMI and USB webcam video inputs

Low delay modes

Configurable On-Screen Display (OSD) with timestamp

Encryption – ABS as standard, AES optional license

Built in video analytics; motion detection

Micro SD card for store and forward functionality or upgrade

ONVIF profile S support

Two stereo audio inputs

Product Information:

Product Includes

PROIP-ENC	ENCIPHER – Professional Dual Channel HD IP Encoder
AP009003	6-way terminal block
AP009004	Power supply, 12V/2A, 4 x intl AC plugs
AP009072	Cat6 network cable, shielded - 1m
SA3926	USB support stick

Accessory Options (sold separately)

PROIP-ENC-RCK	Professional IP Encoder 19" Rack Mount Accessory
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Related Documents

100218	Professional Dual Channel HD IP Encoder User Guide
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Technical Specification:

Interfaces

HD-SDI x 2	BNC
Composite x 2	BNC
HDMI	HDMI type A
Analogue audio x 2	3.5mm stereo jacks
DC power	2.1mm diameter pin
USB 2.0	Type A host DTC recommended 3G/4G/LTE dongles: Huawei E3372s-153, Huawei E3372h-153 Verizon MiFi USB620L (USA)
Ethernet (PoE)	RJ45
SD card	Micro SD
Camera control	Six way screw terminal connector

Video Formats

Digital inputs	1920x1080i 60/59.94/50Hz 1920x1080p 30/29.97/25/24/23.97Hz 1920x1080psf 30/29.97/25/24/23.97Hz 1280x720p 60/59.94/50Hz 720x576i 50Hz 720x480i 59.94Hz
Composite inputs	PAL, NTSC

Encoding

Video encoding	Either HD-SDI, composite or HDMI per channel
Video compression	H.264
Audio analogue sample rate	8kHz (G.726 only), 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz & 48kHz
Audio digital sample rate	48kHz only
Audio encoder	MPEG Layer I (32-448kbps) MPEG Layer II (32-384kbps) MPEG Layer III (32-320kbps) AAC (32-256kbps) G711 (64kbps only) G.726 (32kbps analogue audio only)

Ethernet

Supported modes	10/100/1000 BASE-TX
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Streaming

Number of streams	Up to two
Format	MPEG transport stream
Video	Elementary stream (RTSP only)
Protocols	UDP/RTSP (RTP) unicast & multicast
Bitrate	50Mbps per channel

Recording

Media	Micro SD card (up to 128GB, class 10)
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Control

Remote control	Web interface
Camera control	Switchable DC output (max 1A) 1 x RS-485 multi-drop for control of up to 32 cameras or 2 x RS-232

Encryption

Included	ABS
Licensed	AES 128, AES 256 (subject to export control)

Power

DC input	9 to 16V reverse polarity protected
Power over Ethernet	PoE module requests 25.5W for unit and the peripherals to use
Power consumption	SD encoding - 4.0W typical HD encoding - 6.0W typical
SDI power injection	5V at 0.5A on each input, switchable in software

Physical & Environment

Dimensions (incl connectors)	L 95mm, W 125mm, H 26mm
Weight	260g
Temperature range	-20°C to +60°C
Sealing	None

Export of encrypted products is subject to United Kingdom regulatory export controls.

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email solent.enquiries@domotactical.com

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