

PROIP-ENC

ENCIPHER Professional Dual Channel IP Encoder



Features and Benefits:

- MPEG, 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
- 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
- Motion detection video analytics with optional (licensed) JPEG metadata
- Micro SD card for store and forward functionality or upgrade
- ONVIF profile S support
- Two stereo audio inputs

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.

Product Information:

Product Includes

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-RCKSYS	Encipher 19" rack mount accessory
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License Options

LIC-PROIP-ENC-SNAPSHOTS	Triggered JPEG stills with timestamps
AES128ENC	AES 128-bit encryption
AES256ENC	AES 256-bit and 128-bit encryption

Note: AES licenses are subject to export control

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Technical Specification:

Interfaces

DC power jack	2mm pin, 2A
Ethernet (PoE)	RJ45
USB 2.0	Type A host
HD-SDI x 2	BNC
Composite x 2	BNC
HDMI	HDMI type A
Analogue audio x 2	3.5mm stereo jacks
Camera control	6-way screw terminal connector
SD card	Micro SD

Video Formats

Digital inputs	1920x1080i 60/59.94/50Hz 1920x1080p 30/29.97/25/24/23.97Hz 960x1080p 60/59.94/50Hz (not HDMI) 1920x1080psf 30/29.97/25/24/23.97Hz 1280x720p 60/59.94/50/30/29.97/25Hz 720x576i 50Hz 720x480i 59.94Hz
Composite inputs	PAL, NTSC

Encoding

Video encoding	HD-SDI, composite or HDMI per channel
Video compression	H.264
Audio analogue sample rate	16/22.05/24/32/44.1/48kHz
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	AES128/256 (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

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Product Family Comparison

Product	Ethernet RJ45	USB	HD-SDI	Composite	HDMI	USB camera	PAL/NTSC	TVI	Analogue Audio	Data/PTZ	Dimensions
Encipher	Yes (PoE)	Type A (Host)	BNC x2	BNC x2	Type A	Yes	Yes	No	3.5mm jack x2	RS232/RS485	95x125x26mm
*Mini Encipher	Yes (PoE)	Type C (Host/Device)	HD-BNC (switchable)	HD-BNC (switchable)	Type C (mini)	Yes	Yes	Yes	3.5mm jack	GPIO low voltage	100x60x23mm
*Micro Encipher	No	Type C (Device)	MCX (switchable)	MCX (switchable)	No	No	Yes	Yes	No	GPIO low voltage	61x38x11mm

* See separate datasheet for full specifications

Export of encrypted products is subject to regulatory export controls.

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

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