

# 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 30Mbps, allowing the user to configure the system according to the application requirements.



### Features and Benefits:

- Dual high profile HD H.264 independent video encoders; total encoder throughput of up to 1080p30 (1080i60) (NEW)
- Streaming suitable for approved 4G LTE USB dongles (NEW)
- FCON capable (NEW)
- NTP server for accurate synchronisation to UTC time (NEW)
- Generic UDP TCP pipe for serial data over IP (NEW)
- Sub 200 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 and single HDMI video inputs
- Low delay modes
- Configurable On Screen Display (OSD) with timestamp
- Encryption – ABS as standard, AES as a licensable feature subject to export control
- 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:

SA3870	PROIP-ENC
SA3926	USB support stick
AP008898	Cat6 Ethernet cable
AP009003	6-way terminal block

#### 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
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

#### Encryption

Included	ABS
Optional	AES 128, AES 256

#### Encoding

Video encoding	Either HD-SDI, composite or HDMI per channel
Video compression	SD H.264, HD H.264
Audio analogue sample rate	32kHz & 48kHz
Audio digital sample rate	48kHz only
Audio encoder	MPEG layer I/II - Analogue stereo pair or differential mono
Audio coding modes	2 channels stereo or mono MPEG audio layer 1 64-448kbps MPEG audio layer 2 32-384kbps

#### Streaming

Number of streams	Up to 2
Format	MPEG transport stream
Video	Elementary stream (RTSP only)
Protocols	UDP/RTSP (RTP) unicast & multicast
Bitrate	Total 30Mbps max

#### Recording

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

Remote control	Web interface, Device Controller
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

#### Ethernet

Supported modes	10/100/1000 BASE-TX
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#### 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	Single SD encoding - 6.0W typical Dual SD encoding - 9.0W typical HD encoding - 9.0W 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	-10°C to +50°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](mailto:solent.enquiries@domotactical.com)

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