

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	Up to 25W total (unit & peripherals)
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

DTC – Solent
Fusion 2, 1100 Parkway
Solent Business Park
Whiteley, Hampshire
PO15 7AB, UK

DTC – Tampa (Head Office)
3845 Gateway Centre Boulevard
Suite 360
Pinellas Park, FL
33782, USA

DTC – Randers
Haraldsvej 64B
DK-8960
Randers SØ
Denmark

DTC – Singapore
21 Media Circle
Infinite Studios #06-04
Singapore
138562

DTC – Brazil
Alameda Araguaia 2
190 – Ed. CEA II – suite 1109
Alphaville - Barueri
São Paulo, Brazil
06455-000
T: +55 11 2321 5055

T: +44 (0) 1489 566 750

T: +1 727 471 6900

T: +45 8791 8100

T: +65 6643 4700

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Planet Communications Asia PLC.

157 Soi Ramindra 34, Ramindra Rd., Tarang, Bangkhen, Bangkok 10230
Tel: +66 2 792 2400 | Fax: +66 2 792 2499, +66 2 943 5771 | E-mail: sales@planetcomm.com

domotactical.com



PlanetComm: