

Chameleon HD/SD Encoder GNHWENC



Product information



The CHAMELEON ENCODER adds the feature of MPEG encoding to the CHAMELEON product line. With the same form factor as the CHAMELEON modules, the CHAMELEON ENCODER can be used in any CHAMELEON base unit. The CHAMELEON ENCODER allows you to add services available in audio/video format or in SDI/HD-SDI format to your digital network.

Features:

- Encoding of 1 HD-SDI or 2 SD-SDI / analogue video signals
- 2 x analogue/digital video input
- 2 x analogue stereo audio input
- Gigabit Ethernet input/output for MPTS and SPTS signals
- Output: MPEG over UDP/IP MPTS/SPTS
- Control and management via web UI

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SD-SDI input

Number of ports	2x BNC ports
Input video	SDI, audio embedded
Input audio	Stereo / Mono / Dual Sound
Input impedance	75 Ω
Compliance	SMPTE 259M-C-270C, SMPTE 272M
Connectors BNC	2x SDI Video

HD-SDI input

Number of ports	1x BNC port
Input video	HD-SDI, audio embedded
Input audio	Stereo / Mono / Dual Sound
Input impedance	75 Ω
Compliance	HD-SDI SMPTE 292M, SMPTE 299M
Connector BNC	1x SDI Video

Analogue video input

Number of ports	2x BNC ports
Input format	Composite FBAS-signal
Input impedance	75 Ω
Input level	1 V _{ss} (± 0,4 V)
Input frequency range	20 Hz...5 MHz
Frequency response	≤ ± 2 dB (20 Hz...4 MHz)
Connectors BNC	2x SDI Video

Analogue audio input

Number of ports	3x 3.5 mm jack ports
Input format	Left, Right asymmetrical
Input impedance	600 Ω/15 kΩ (switchable)
Input level	-4 dBm / (500 mV _{eff})
Input level range	-18 dB...+18 dB
Input frequency range	40 Hz...15 kHz

IP TS output

Output bitrate	max. 40 Mbit
Connector	RJ45 GigE & SGMII GigE
Output protocol	UDP/RTP Multicast/Unicast
IP TS output format	CBR/VBR (MPTS or SPTS)
IP TS output capacity	max. 2 TS

ASI TS output

Output bitrate	max. 40 Mbit
Number of ports	1x F connector port
Packet Size	188 byte (optional 204 byte)

MPEG encoder – Audio / Video

Video system	MPEG4 HD/SD, H.264 AVC, High Profile, Level 4.0
Picture size	1080i50, 720p50 (MPEG4 HD), 576i50 (MPEG-4 SD)
Aspect ratio	4:3, 16:9
WSS	Automatic detection for analogue video in
Bit rate	1...16 Mbit/s (up to 24 Mbit/s in peaks)
Audio system	MPEG-1 L1/L2 (ISO 11173-3)
Number of audio channels	2 per video input
Sampling frequency	48 kHz (optional 32 or 44.1 kHz)
Bit rate	max. 384 kbit/s (MPEG1 L1/L2)
Audio system	MPEG-1 L1/L2 (ISO 11173-3)
Audio modes	stereo, joint stereo, dual, mono
Teletext	extraction from analogue video signal

Control and Management

Graphical User Interface	
Control connectors	RJ45 (GigE) SGMII (backplane for GN50)

Connectors and Interfaces

Signalling	2 LED (green/yellow/red)
SDI/Video input	BNC-connector, 75 Ω
Analogue audio input	3.5 mm jack socket
ASI out connector	F female, 75 Ω
GigE/Control/Power (backplane)	CompactPCI Typ C (SGMII)

GigE streaming (front) & Control connectors	2x RJ45 (GigE)
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Miscellaneous

Power supply	12 VDC nom. (9...14 VDC)
Power consumption	typ. <15 W, max. 18 W
Dimensions	230 x 105 x 40 mm (excl. connectors)
Weight	Approx. 640 g
Controller Embedded	web server, SNMP
Operation temperature	5°C...45°C

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