

WISI GNHWENC2H

Chameleon HD/SD encoder with HDMI



ELPAS



Description

The CHAMELEON ENCODER is a professional and high density HD/SD audio & video encoding device which adds the feature of MPEG-4 and MPEG-2 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 HDMI format to your digital network. The 4 encoded service will be provided by the IP output interface.

Scope of delivery

- 1x GNHWENC2H module
- 1x Quick Guide

At a glance:

- HD/SD MPEG-4 (AVC, H.264) and HD/SD MPEG-2 video encoding
- Up to 4 HDMI inputs per module
- Professional multiplexer integrated
- SPTS and MPTS streaming (CBR or VBR)
- Supports PSI/SI processing
- Integrated into the CHAMELEON Systemmanagement
- Control and management via web-UI

Technical data	
HDMI-Input	
HDMI number of ports	4 pcs. (HDMI)
Input format HDMI	1080i50/60/59.94, 720p50/60/59.94, 576p50, 480p60/59.94, 576i50, 480i60/59.94
Compliance	HDMI 1.4a (no scaling)
HDCP Support	No
Video Encoding	
Encoding capacity	4x HD/SD MPEG-2/MPEG-4
Video system	MPEG-2 HD/SD and MPEG-4 HD/SD (H.264/AVC)
Picture size	1080i50/60/59.94, 720p50/60/59.94, 576p50, 480p60/59.94, 576i50, 480i60/59.94
Bit rate	MPEG-2 10-19Mbps, MPEG-4 6-13Mbps @ 1080i50/60/59.94, 720p50/60/59.94; MPEG-2 4-12Mbps, MPEG-4 2-6Mbps @ 576p50, 480p60/59.94; MPEG-2 2-8Mbps, MPEG-4 1-4Mbps @ 576i50, 480i60/59.94
Chroma sample	4:2:0
Aspect ratio	16:9 for HD; 4:3 for SD
Subtitle DVB Support	No
Subtitle OP47 Support	No
Picture size conversion	Downscaling yes, Upscaling no
Frame rate conversion	No
Test pattern	No
Audio Encoding	
Audio-system	ISO 11173-3 (MPEG-1 L2), MPEG-2 AAC (LC)
Number of audio channels	1 per video input @ 4x HD/SD MPEG-2/MPEG-4; 2 per video input @ 2x HD/SD MPEG-2/MPEG-4
Sampling frequency	44.1, 48 kHz
Bit rate	64...288 Kbps (max. MPEG1 L2/AAC)
Audio modes	Stereo
Sampling rate conversion	No
Streaming-In-/Output	
IP-Inputs	0 or 32 pcs. (32 with GNSTR software option)
IP-Outputs	4 or 32 pcs. (32 with GNSTR software option)
IP-Compliance	ISO/IEC 13818
IP-Input bitrate	Max. 425 Mbit/s per IPTS, Max. 850 Mbit/s total
IP-Output bitrate	Max. 425 Mbit/s per IPTS, Max. 850 Mbit/s total
IP-Input protocol	UDP/RTP/RTP+FEC Unicast and Multicast, IGMP v2 and v3
IP-Output protocol	UDP/RTP/RTP+FEC Unicast and Multicast, IGMP v2 and v3
IP-TS-Input format	SPTS CBR/VBR, MPTS CBR
IP-TS-Output format	SPTS CBR/VBR, MPTS CBR

Technical data	
IP-FEC inputs	0 or 32 pcs. (with GNFECC software option)
IP-FEC Outputs	4 or 32 pcs. (with GNFECC software option)
IP-FEC compliance	SMPTE 2022-1, SMPTE 2022-2
IP-Packet format	MPEG over UDP/IP and RTP/IP
IP-Packet size	188 Byte
IP-PCR restamping	Yes
Processing	
Service remultiplexing	Yes (GNSYMUX is included)
PID filtering and remapping	Yes
PCR correction and de-jitter	Yes
Advanced PSI/SI regeneration	Yes
NIT generation	No
Compliance	ETSI EN 300 468
Processing bitrate	Max. 1200 Mbps total
Number of PIDs	Max. 2000 PIDs total
Connectors	
RJ45	2 pcs. (1x Management, 1x Streaming)
F-socket RF- output	1 pcs. (not in operation, only for mounting in GN40 base unit)
HDMI input	4 pcs. (for type A connector)
GigE/Control/Power supply (Backplane)	CompactPCI Type C (SGMIII)
General data	
Power consumption	max. ≤18 W
Operating temperature range	-5°C...+45°C, 23°F...113°F, (ETSI EN 300 019-1-3 Class 3.1)
Max. humidity, non condensing	95 %
Electro Magnetic Compatibility (EMC)	DIN EN 55022:2008-05
Safety compliance	-
HDMI status LED	green, red
Operation Mode	-
Hardware revision	1000
Software version	3.0
Packaging data	
Sales unit	1 pcs.
Dimensions (WxHxD) sales unit	230 x 105 x 40 mm (without connectors)
Packaging volume sales unit	1 dm ³
Gross weight sales unit	0,9 kg
Shipping unit	1 pcs.
Dimensions (WxHxD) shipping unit	290 x 165 x 50 mm
Packaging volume shipping package	2,4 dm ³
Gross weight shipping unit	1,05 kg
EAN	4010056747015
Article number	74701
Customs tariff number	85437090