Product information

WISI GF3242H

FALCON HD/SD Encoder 4 x HDMI in 2 x DVB-C/T & 4 x SPTS



Description

The compact headend GF3242H from the FALCON product family is used for signal processing of up to 4 HDMI HD/SD input signals into 2 output channels selectable as DVB-C or DVB-T.
Additionally, the two transport streams are simultaneously made available as MPTS IP streams.
Furthermore, the 4 input signals can be output as individual SPTS streams, which overall enables flexible and versatile use of the device.
Insertion of Logos, Captions or QR-Codes does significant extend the application of the product.
The video data is compressed optionally as MPEG-4 AVC/H.264 or HEVC/H.265 data, ensuring very efficient service utilization per channel.
In the DVB-C modulation mode, IP services from an external IP source can be remultiplexed and added to the output signals.
An intuitive programming concept ensures quick and easy installation and setup of the device.

At a glance:

- HD/SD MPEG-4 (AVC, H.264) and HEVC/H.265 video encoding
- Up to 4 HDMI inputs
- Integrated professional multiplexer
- SPTS and MPTS Streaming (CBR oder VBR)
- UDP/RTP Streams
- Supports PID Remapping and PSI/SI processing
- Optionally 2 DVB-C or DVB-T output channels
- Insertion of Logos, Captions or QR-Codes
- Multiplexing of external IP Services (only in DVB-C Mode)
- Control and management via web-UI

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Technical data	
HDMI Input	
Number of ports	4
Input format Video	1920x1080/60P, 1920x1080/60I 1920x1080/50P, 1920x1080/50I 1280x720/60P, 1280x720/50P 720x 576/50I,720x480/60I
Input format Audio	PCM MPEG
Compliance	HDMI 1.2
Video Coding	
Video-Encoding	MPEG-4 AVC/H.264 HEVC/H.265
Resolution	1920x1080/30P , 1920x1080/25P 1280x720/30P, 1280x720/25P 720x576/25P, 720x480/30P
Bitrate	1...13 MBit/s per video channel
Audio Coding	
Audio-Encoding	MPEG-1 L2 MPEG-2 LC-AAC, HE-AAC
Sampling rate	32 kHz / 44.1 kHz / 48 kHz
Bitrate	48...384 kbps 48...128 kbps (HE-AAC)
Audio mode	Stereo, AC-3 pass through
QAM modulation	
Standard	EN300429
Constallation (J.83A)	16-, 32-, 64-, 128-, 256-QAM
Constallation (J.83B)	64-, 256-QAM
Symbolrate	5.00...7.00 Mbaud
MER	> 40 dB
COFDM modulation	
Standard	EN300744
FFT Mode	2k
Constallation	QPSK, 16-QAM, 64-QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
FEC	1/2, 2/3, 3/4, 5/6, 7/8
MER	> 40 dB
Output	
Impedance	75 Ω
Frequency range	50...960 MHz / 1kHz Schritte
Level	-22...0 dBm (86...108 dBµV)
Number of channels	2
Streaming-In / Out	
IP-Inputs	max. 64 MPTS/SPTS (nur für DVB-C Mode)
IP-Outputs	4 SPTS / 2 MPTS
IP-Input bitrate	Max. 850 Mbit/s gesamt
IP-Output bitrate	Max. 850 Mbit/s gesamt
IP-Input protocol	UDP/RTP
IP-Output protocol	UDP/RTP Unicast/Multicast
IP-TS-Input format	SPTS CBR/VBR, MPTS CBR
IP-TS-Output format	SPTS CBR/VBR, MPTS CBR
IP-Packet format	MPEG over UDP/IP and RTP/IP
IP-Packet size	188 Byte

Technical data	
Processing	
Service remultiplexing	Yes
PID-filtering and remapping	Yes
PCR correction	Yes
Advanced PSI/SI processing	Yes
NIT-generation	Yes
Compliance	ETSI EN 300 468
Number of PIDs	Max. 180 per channel
Connectors	
Inputs	4 x HDMI Type A
Outputs	1 x F-female
Test-Output	1 x F-female
IP In / Out	1 x RJ45
Management	1 x RJ45
General Data	
Supply voltage	100...260 VAC (50/60 Hz)
Power consumption	max. 20 W
Operating temperature	0...45 °C
Dimensions	482.6 x 328.5 x 44 mm
Weight	4 kg

Packaging data	
Sales unit	1 pcs.
Dimensions (WxHxD) sales unit	550 x 460 x 150 mm
Packaging volume sales unit	38 dm^3
Gross weight sales unit	6 kg
EAN	4010056771485
Article number	77148
Customs tariff number	85176200