Product information

WISI GF3284H

FALCON HD/SD Encoder 8 x HDMI in 4 x DVB-C/T & 8 x SPTS



Description

The compact headend GF3284H from the FALCON product family is used for signal processing of up to 8 HDMI HD/SD input signals into 4 output channels selectable as DVB-C or DVB-T.
Additionally, the two transport streams are simultaneously made available as MPTS IP streams.
Furthermore, the 8 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.
An intuitive programming concept ensures quick and easy installation and setup of the device.
In the DVB-C modulation mode, IP services from an external IP source can be remultiplexed and added to the output signals.

At a glance:

- HD/SD MPEG-4 (AVC, H.264) and HEVC/H.265 video encoding
- Up to 8 HDMI inputs
- Integrated professional multiplexer
- SPTS and MPTS Streaming (CBR oder VBR)
- UDP/RTP Streams
- Supports PID Remapping and PSI/SI processing
- Optionally 4 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	8
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	4
Streaming-In / Out	
IP-Inputs	max. 128 MPTS/SPTS (nur für DVB-C Mode)
IP-Outputs	8 SPTS / 4 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	8 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. 25 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	6.5 kg
EAN	4010056771492
Article number	77149
Customs tariff number	85176200