

WISI GNHWUW2

Chameleon Module



Technical data

Input DVB-S/S2

Input frequency range	925...2175 MHz
Input level range	44...84 dB μ V
Symbol rate	1...45 MS/s (max. 100 Mbit/s)
Spectral inversion	Yes, selectable
DVB-S-Compliance	DVB-S (EN 300 421)
DVB-S2-Compliance	DVB-S2 (EN 302 307)

Input DVB-C/T/T2

Input frequency range DVB-C/T/T2	43...1002 MHz
Input level range DVB-T	39...79 dB μ V (-70...-30 dBm)
Input level range DVB-T2	39...79 dB μ V (-70...-30 dBm)
Input level range DVB-C	49...79 dB μ V (-60...-30 dBm)
band width DVB_T	6/7/8 MHz
band width DVB_T2	1.7/5/6/7/8 MHz
band width DVB_C	8 MHz
Symbol rate DVB-C	1...7,2 Mbaud
DVB-T-Compliance	DVB-T (EN 300 744)
DVB-T2-Compliance	DVB-T2 (ETSI EN 302 755)
DVB-C-Compliance	DVB-C (EN 300 429, Appendix A)

Input ISDB-T

Input frequency range ISDB-T	47...862 MHz
Input level range ISDB-T	38...90 dB μ V
Bandwidth ISDB-T	6/7/8 MHz
ISDB-T-Compliance	ISDB-T (ARIB STD-B3)

ASI input / output

Input max. payload bit rate	200 Mbps (typ.)
Output max. payload bit rate	200 Mbps (typ.)
PCR restamping	Yes
Paket size	188 byte

IPTV In-/ Output

Technical data

Input bitrate IP-interface	max. 110 Mbit/s pro IPTS, max. 200 Mbit/s total
Output bitrate IP interface	max. 110 Mbps per IPTS, max. 400 Mbps total
Output protocol	UDP/RTP Multicast/Unicast
IPTV TS Input format	CBR/VBR, max. 20 SPTS/MPTS
IPTV TS Output format	CBR/VBR, max. 20 SPTS/MPTS

DVB-C Modulation

Number of output channel	4 pcs.
QAM-Modulationsart	16-, 32-, 64-, 128-, 256-QAM
Symbol rate	2.4...13.6 Mbaud
MER	44 dB (typ. for 256-QAM)
Output frequency range	40...860 MHz
Output level 1	105 dB μ V (51...858 MHz, 1 channel)
Output level 2	102 dB μ V (51...858 MHz, 2 channel)
Output level 3	99/96 dB μ V (51...858 MHz, 3 channels/4 channels)
Spurious suppression	>60 dB

SDI / HD-SDI output

Video-Format	SDI, Audio embedded
Audio format	Mono, Stereo, Joint Stereo
SDI-SD conformity	SMPTE 259M, SMPTE 272M

MPEG Decoder – Audio / Video

Video decoder	MPEG2 MP@ML, MPEG2 MP@HL, bis zu MPEG4 H.264 AVC, HiP, level 4
Aspect ratio	Letterbox, Pan/Scan, 14:9, WSS
Teletext	Subtitle Teletext or DVB teletext

VSB - AM modulation

Technical data

Number of output channel	2 pcs.
Video standard	PAL B/G, D/K, I, SECAM D/K, B/G, L
Group delay pre-correction	B/G general, D/K GOST20532-75, M FCC, not any
Audio format	
Video modulation	VSB AM (negative or positive)
Video bandwidth	4,2/5,0/6,0 MHz
audiomodulation	audio FM or AM
Output frequency range	48...855 MHz
Output level	dB μ V max. 111 dB μ V (1 channel); max. 108 dB μ V (2 channels)
Video S/N weighted	>65 dB
C/N, broadband	>70 dB (65 dB typical at adjacent channel)
NICAM standard	NICAM 728 (EN 300 163)
Spurious suppression	>60 dBc

FM- modulation radio

Number of output channel	8 pcs.
audio decoding	MPEG-1 Layer I/II
Audio format	Mono, Stereo, Joint Stereo
Modulation type	FM (Referenz ITU-R BS.450-3)
FM-modulation depth limit	Yes
RDS generator, dynamic / static	Yes (Reference EN50067)
Output frequency range	85...108 MHz (100 kHz step size)
Output level	92 dB μ V (max.)
Audio-S/N	dB >60 dB (mono); >55 dB (stereo)
C/N, broadband	65 dB (typ.)
Spurious suppression	dB typ. 60 dBc (FM band 87.5...108 MHz); >50 dBc (outside FM band)

CI and decryption

Number of CI slots	2 pcs. (accessible from rear)
Bit rate	55/62/72 Mbps
Multichannel decryption	Yes
Service level decryption	Yes
PID level decryption	Yes
Compliance	EN 50221

DVB SCA-Scrambler / Si-mulcrypt Interface

DVB-Compliance	DVB-Symulcrypt (ETSI TS 103 197)
Interface	IP
Number of encrypted PIDs	64 PIDs per output
Scramble outputs	DVB-C, J.83AnnexB/C, DVB-T, DTMB, ASI

Connectors

BNC-socket	2 pcs. (ASI in/out, SDI out)
RJ45	2 pcs. (IPTV in/out, control)
Common Interface	2 pcs.
F-socket HF- output	2 pcs.

Technical data

SGMII socket	2 pcs. (Data- and management interface for GN 50)
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General data

Operating voltage DC	12 V DC
Power consumption	16 W (typ.)

Packaging data

Sales unit	1 pcs.
Dimensions (WxHxD) sales unit	290 x 165 x 50 mm
Packaging volume sales unit	dm ³
Gross weight sales unit	0.860 kg
Shipping unit	pcs.
Dimensions (WxHxD) shipping unit	mm
Packaging volume shipping package	2.4 dm ³
Gross weight shipping unit	0.46 kg
EAN	4010056724115
Article number	72411
Customs tariff number	85437090