



GNHWUW2



Packaging data

Sales unit	1 pcs.
Packaging volume shipping package	2.4 dm ³
Gross Weight shipping unit	0.46 kg
EAN	4010056724115
Article number	72411
Customs tariff number	85437090

Technical data

Input DVB-S/S2	925...2175 MHz
Input frequency range	44...84 dB μ V
Input level range	1...45 MS/s (max. 100 Mbit/s)
Symbol rate	Yes, selectable
Spectral inversion	DVB-S (EN 300 421)
DVB-S-Compliance	DVB-S2 (EN 302 307)
DVB-S2-Compliance	43...1002 MHz
Input DVB-C/T/T2	39...79 dB μ V (-70...-30 dBm)
Input frequency range DVB-C/T/T2	39...79 dB μ V (-70...-30 dBm)
Input level range DVB-T	49...79 dB μ V (-60...-30 dBm)
Input level range DVB-T2	6/7/8 MHz
Input level range DVB-C	1.7/5/6/7/8 MHz
band width DVB_T	8 MHz
band width DVB_T2	1...7,2 Mbaud
band width DVB_C	DVB-T (EN 300 744)
Symbol rate DVB-C	DVB-T2 (ETSI EN 302 755)
DVB-T-Compliance	DVB-C (EN 300 429, Appendix A)
DVB-T2-Compliance	200 Mbps (typ.)
DVB-C-Compliance	200 Mbps (typ.)
ASI input / output	Yes
Input max. payload bit rate	188 byte
Output max. payload bit rate	max. 110 Mbit/s pro IPTS, max. 200 Mbit/s total
PCR restamping	
Paket size	
IPTV In-/ Output	
Input bitrate IP-interface	
Output bitrate IP interface	UDP/RTP Multicast/Unicast
Output protocol	CBR/VBR, max. 20 SPTS/MPTS
IPTV TS Input format	CBR/VBR, max. 20 SPTS/MPTS
IPTV TS Output format	
DVB-C Modulation	4 pcs.
Number of output channel	16-, 32-, 64-, 128-, 256-QAM
QAM-Modulationsart	2.4...13.6 MS/s
Symbol rate	44 dB (typ. for 256-QAM)
MER	40...860 MHz
Output frequency range	105 dB μ V (51...858 MHz, 1 channel)
Output level 1	102 dB μ V (51...858 MHz, 2 channel)
Output level 2	99/96 dB μ V (51...858 MHz, 3 channels/4 channels)
Output level 3	>60 dBc
Spurious suppression	
SDI / HD-SDI output	SDI, Audio embedded
Video-Format	Mono, Stereo, Joint Stereo
Audio format	SMPTE 259M, SMPTE 272M
SDI-SD conformity	
MPEG Decoder - Audio / Video	MPEG2 MP@ML, MPEG2 MP@HL, bis zu MPEG4 H.264 AVC, HiP, level 4
Video decoder	Letterbox, Pan/Scan, 14:9, WSS
Aspect ratio	Subtitle Teletext or DVB teletext
Teletext	
VSB - AM modulation	2 pcs.
Number of output channel	PAL B/G, D/K, I, SECAM D/K, B/G, L
Video standard	B/G general, D/K GOST20532-75, M FCC, not any
Group delay pre-correction	
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.



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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	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 / Simulcrypt 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.
SGMII socket	2 pcs. (Data- and management interface for GN 50)
General data	
Operating voltage DC	12 V DC
Power consumption	16 W (typ.)
LNB supply voltage	V Auto, Off, 13/18 V DC
LNB electrical power supply	0.8 A
DiSEqC	Control for up to 4 satellites
Dimensions (width x height x depth)	230x105x40 mm (without connectors)
Operating temperature range	-20...+50 °C

Title

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Short description

Chameleon Module

Description

Chameleon Module