

	MODULATOR TV MT-41 TERRA	MODULATOR TV MT-47	DIGITAL MODULATOR DVB- T EDITION-3iN1/MINI	MODULATOR DVB-T HDMOD-10/MICRO Spacetronik	MODULATOR DVB-T MOD- EK/DVB-T EKSELANS BY ITS	MODULATOR DVB-T MOD/SIG-420/DVB-T	DIGITAL MODULATOR DVB- T COFDM WS-8901U
							
	36.87 EUR 36.87 EUR	38.45 EUR 38.45 EUR	134.93 EUR 134.93 EUR	114.66 EUR 114.66 EUR	178.54 EUR 178.54 EUR	125.59 EUR 125.59 EUR	230.24 EUR 230.24 EUR
Video input frequency range	20 Hz ... 6 MHz	20 Hz ... 6 MHz	...	...	...	...	...
Video input level / impedance	1 V ± 1 dB / 75 Ω	1 V ± 1 dB / 75 Ω	...	...	...	...	...
Inputs	1 pcs Video composite (Cinch) 1 pcs RF (F) 2 pcs audio (Cinch)	1 pcs Video composite (Cinch) 1 pcs RF (F) 2 pcs audio (Cinch)	• HDMI 1.4a, Full HD - 1080p, • USB 2.0, • DC 2.1/5.5mm socket 5 V / 2 A, • Grounding connector	• HDMI Full HD - 1080p, • Mini USB-B - PC, • DC 2.1/5.5mm socket 5 V, • Grounding connector	1 pcs HDMI, Full HD 1080p , 1 pcs RF (F) , 1 pcs micro USB	1 pcs HDMI, Full HD 1080p , 1 pcs RF (F)	• HDMI, Full HD - 1080p, • CVBS - Cinch socket, • RF (F), • Audio Stereo (2x Cinch)
Audio input frequency range	20 Hz ... 15 kHz	20 Hz ... 15 kHz	...	...	...	...	...
Audio input level adjustment	1 ... -14 dB	1 ... -14 dB	...	...	...	...	...
Audio input level / impedance / deviation	775 mV RMS / 10 kΩ / 50 kHz	775 mV RMS / 10 kΩ / 50 kHz	...	...	...	...	...
Output level	...	...	90 dBμV	...	...	...	...
Level (typical) / RF output impedance	90 dBμV / 75 Ω	85 dBμV / 75 Ω	...	...	...	...	...
Encoding	...	...	MPEG-4	H.264	• Video : H.264 max. 1080p, 500 ... 15000 kb/s • Audio : MPEG-1, Layer II, AAC-LC, 128, 192, 256, 320, 384 kb/s	H.264	H.264
RF output PAL signal version	B/G/D/K/H/L/L/M/N/Australia	B/G/D/K/H/L/L/M/N/Australia	...	...	...	...	...
Supported HDMI resolutions	...	...	max. 1080p	720p @ 50 / 60 fps , 1080i @ 50 / 60 fps , 1080p @ 50 / 60 fps	480p, 576p, 720p, 1080p	720p @ 50 / 60 fps 1080i @ 50 / 60 fps 1080p @ 50 / 60 fps	480i 576i 1080p
Output signal level	...	...	...	70 ... 100 dBμV	...	...	...
Output	1 pcs RF (F)	1 pcs RF (F)	1 pcs RF (F)	1 pcs RF (F)	1 pcs RF (F)	1 pcs RF (F)	RF (F)
Carrier frequency error	± 50 kHz	± 50 kHz	...	...	...	...	...
Insertion loss WE-WY VHF/UHF	...	...	...	...	0 ... 15 dB	...	...
RF output level adjustment	0 ... -20 dB	0 ... -20 dB	-14 ... +6 dB	...	> 80 dBμV	70 ... 100 dBμV	70 ... 100 dBμV
Audio subcarrier frequency	4.5 ; 5.5 ; 6.0 ; 6.5 MHz	4.5 ; 5.5 ; 6.0 ; 6.5 MHz	...	...	...	...	...
Fine tuning range of video carrier frequency	± 2.25 MHz max. with 0.25 MHz step	± 2.25 MHz max. with 0.25 MHz step	...	...	...	...	...
HDCP compliance	...	...	...	✓	...	✓	...
SAT / Terr loop-through loss	2.5 dB / 1.5 dB	2.5 dB / 1.5 dB	...	...	...	...	...
SAT / Terr loop-through frequency range	47 MHz ... 2150 MHz	47 MHz ... 2150 MHz	...	...	...	...	...
RF output frequency (channels) range	470 MHz ... 862 MHz (K21-69)	170 MHz ... 230 MHz 470 MHz ... 862 MHz (K6-12, K21-69)	DVB-T : 5 ... 12 VHF, 21 ... 69 UHF	174 ... 230 MHz (VHF) 470 ... 862 MHz (UHF)	170 ... 230 MHz VHF (III) 470 ... 862 MHz UHF	50 ... 860 MHz	50 ... 860 MHz, (5 ... 12, 21 ... 69)
Video frequency response	± 1 dB	± 1 dB	...	...	...	...	...
A/V ratio	12 / 16 dB	12 / 16 dB	...	...	...	...	...
Amplitude modulation depth (typical)	81 %	81 %	...	...	...	...	...
SNR (weighted)	≥ 55 dB	≥ 55 dB	...	...	...	...	...
Operation temp	-10 °C ... 50 °C	-10 °C ... 50 °C	...	...	...	...	...
Modulation type	...	...	QPSK, 16-QAM, 64-QAM	64-QAM	• COFDM : QPSK, 16-QAM, 64-QAM • QAM : 16-QAM, 32-QAM, 64-QAM, 128-QAM, 256-QAM	64-QAM	QPSK, 16-QAM, 64-QAM
Power supply	230 V AC @ 50Hz	230 V AC @ 50Hz	5 V / 2 A (power adapter included)	5 V DC / 1 A (power adapter included)	5 V DC / 2 A (power adapter included)	12 V DC / 1.5 A (power adapter included)	100 ... 240 V AC
Power consumption	2.5 W	2.5 W	max. 8 W	...	...	...	...
Main features	• video carrier frequency adjustment • audio subcarrier modulation depth changing • audio subcarrier from video carrier frequency distance changing • deviation of audio carrier for input level adjustment	• video carrier frequency adjustment • audio subcarrier modulation depth changing • audio subcarrier from video carrier frequency distance changing • deviation of audio carrier for input level adjustment	• Possibility to connect any HDMI signal source and then modulate it to the DVB-T multiplex form • Full HD : 30 fps • Aspect ratios : 4:3, 16:9 • MER > 35 dB • Number of identifiers : 50 • Data backup - USB • Configuration through USB • Firmware upgrade via USB port • LED display • Control using the keys • Low power consumption	• Firmware upgrade via USB cable • Aspect ratios 5:4, 16:9 • MER ≥ 28 dB • LED display • LED indication • Grounding • USB A / mini USB B cable included	• Constellation : COFDM / QAM • MER - COFDM ≥ 33 dB, QAM > 36 dB • Active HDMI source indication • One-touch action buttons • Manual or computer programming	• Firmware upgrade via USB cable • Aspect ratios 5:4, 16:9 • MER ≥ 35 dB	• Possibility to connect any HDMI signal source and then modulate it to the DVB-T multiplex form • Support for HDCP • Aspect ratios : 4:3, 16:9 • MER > 31 dB
Weight	0.336 kg	0.336 kg	0.21 kg	0.2 kg	0.2 kg	0.44 kg	0.41 kg

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Dimensions	133 x 73 x 39 mm	133 x 73 x 39 mm	132 x 84 x 31 mm	127 x 80 x 18 mm	153 x 97 x 34 mm	150 x 115 x 32 mm	480 x 218 x 44 mm, RACK 19", 1U
Manufacturer / Brand	TERRA	...	EDISION	Spacetronek	EKSELANS BY ITS	...	...
Guarantee	2 years	2 years	2 years	2 years	2 years	2 years	2 years