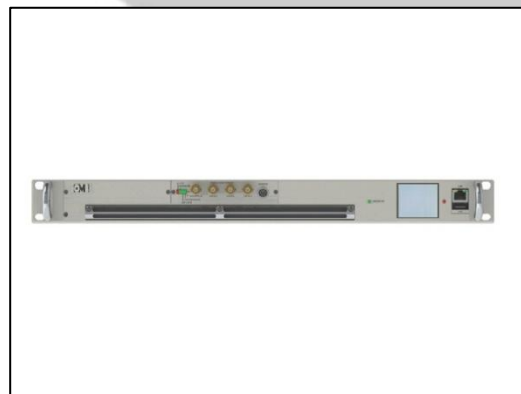


80W rms COMPACT DIGITAL TV MODULATOR MOT 80 MULTICAST COMPACT

The 80W rms compact digital TV modulator **MOT 80 MULTICAST COMPACT** can be used as an analog and digital transmitter. This device has an analog output power of 150W ps and can be configured with different input interfaces. Furthermore, it is suitable for DVB-T/H, DVB-T2, ISDB-T/TB and ATSC standards, and includes adaptive pre-correction and a high precision GPS receiver for SFN networks (optional).



MAIN ADVANTAGES

- High efficiency wideband amplifiers technology.
- Embedded Re-Multiplexer/Layer Combiner/TS to BTS (188 to 204 byte) converter for ISDB-TB.
- Adaptive pre-correction.
- On-board high stability GPS receiver with battery.
- Flexible input interfaces.
- SNMP, web interface and touch screen display.

GENERAL CHARACTERISTICS

DIGITAL OUTPUT POWER	80W rms >36dB
ANALOG OUTPUT POWER	150W ps
FREQUENCY AGILITY	Bands III-IV-V
FREQUENCY RESOLUTION	1Hz
PRECORRECTION	Adaptive
RF CONNECTION	N(F), 50 Ohm
POWER SUPPLY	Single phase 100-240V, 50/60Hz
AVERAGE CONSUMPTION	290W (for 80W output)
DIMENSIONS	Standard rack unit of 19"
CONTROL	TFT touchscreen, web GUI, SNMP y GPIO
OPERATING TEMPERATURE	-5 to 40°C
MAXIMUM RELATIVE HUMIDITY	90% without condensation

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MODULATOR

DVB-T/-H/-T2	
STANDARD	EN300744, EN302304, EN302755, TS101191, TS102773 (T2-MI), TS102034
INPUTS	4xASI BNC(F), 75 Ohm o 2xASI BNC(F), 75 Ohm & 2xRJ45 TS oIP 10/100/1000 Switch seamless between ASI inputs. Hierarchical and not hierarchical (DVB-T)
FFT	1K (DVB-T2), 2K, 4K, 8K, 8K ext. (DVB-T2), 16K & 16K ext. (DVB-T2), 32K & 32K ext. (DVB-T2)
CODE RATE	All modalities available according to the standard Block Short or Normal (DVB-T2) DVB-T: Reed-Solomon (204, 188) DVB-T2: BCH, LDPC
GUARD INTERVAL	1/32, 1/16, 1/8, 1/4, 19/256 (DVB-T2), 19/128 (DVB-T2), 1/128 (DVB-T2)
CONSTELLATION	QPSK, 16QAM, 64QAM, 256QAM (DVB-T2). Rotated and non rotated (DVB-T2)
MISO PROCESSING	Supported
ISDB-TB	
STANDARD	ABNT NBR 15601, ABNT NBR 15603
INPUTS	4xASI TS/BTS BNC (F), 75 Ohm o 2xASI TS/BTS BNC (F), 75 Ohm & 2xRJ45 TS/BTS oIP 10/100/1000
FFT	Mode 1 (2K), Mode 2 (4K), Mode 3 (8K)
CODE RATE	1/2, 2/3, 3/4, 5/6, 7/8
GUARD INTERVAL	1/4, 1/8, 1/16, 1/32
HIERARCHICAL MODULATION	Up to three layers
CONSTELLATION	QPSK, 16QAM, 64QAM
TIME INTERLEAVER	Fully supported
PARTIAL RECEPTION	Supported
ATSC	
STANDARD	A/53, A/110
INPUTS	4 x ASI / SMPTE-310M BNC (f), 75 Ohm or 2 x ASI / SMPTE-310M, 75 Ohm and 2 x RJ45 oIP 10/100/1000
MODULATION	8-VSB
INPUT BIT RATE	19.39 Mbit/s
BANDWIDTH	6 MHz
MAX PROCESSING DELAY	Up to 1 second (programmable)
ANALOG	
STANDARD	B, G, D, K, M, N, I
INPUTS	Video BNC(F), 75 Ohm, 2*audio Tini-QG "Mini XLR", 6 Pin (M), 600 Ohm
COLOUR SYSTEM	PAL, NTSC

GPS (OPTIONAL)

INPUT CONNECTOR	N(F), 50 Ohm
INPUT MONITOR/OUTPUT 10MHz	BNC(F), 75 Ohm
INPUT MONITOR/OUTPUT PPS	BNC(F), 75 Ohm
PHASE NOISE	-140dBc/Hz @ 10kHz -150dBc/Hz @ 100kHz
STABILITY	1e-12 / 24 H with disciplined OCXO
HOLD-OVER STABILITY	5µs after 5 hours (optional 1µs after 24 hours)

NOTE: These transmitters have to be operated with suitable filters at the RF output, so as to meet the standards and limits for the suppression of out of band emissions.

** The images and/or technical specifications are subject to change without previous notice.*

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