

ISDBT/TB DIGITAL TV TRANSMITTERS

MOT 50 ISDBT/TB

OMB 50W ISDBT/TB modulator provides a flexible and cost-effective solution to meet the most demanding requirements of today's digital Terrestrial Television Broadcasting.

The OMB ISDBT/TB modulator is designed in order to modulate an MPEG-2 /H.264 Transport Stream onto an ISDBT/TB compliant OFDM spectrum in accordance with the rules for channel coding and modulation specified in the ISDBT/TB standards. The unit includes two ASI inputs (automatic or manually user selected) and its RF output is generated by a high performance RF converter which covers an entire frequency range from 50MHz to 1GHz in steps of just 1Hz. The output level is adjustable from 0 to 50W. The user can set the polarity of the spectrum to Inverted or Non-inverted as requested.



(I+D)

3MOT S1500 YAV 3DIR SGP 2-R COM LIM3 MMS 412 MIX ONE100

DTP3 TX3000



TECHNICAL SPECIFICATIONS	
SIGNAL PROCESSING	
MODES	1, 2 and 3 modes
GUARD INTERVAL	1/4 1/8 1/16 1/32
CODE RATES	1/2 2/3 3/4 5/6 7/8
CONSTELLATION	QPSK, 16-QAM, 64-QAM, DQPSK
HIERARCHICAL MODE (OPTIONAL)	Up to 3 layers
NETWORK MODE	MFN and SFN (IIP packets)
BANDWIDTH	6MHz
INPUTS	
	2 ASI inputs BNC Female 75Ω
CLOCK REFERENCE	Connector: BNC Female (50Ω / >1KΩ adjustable) Frequency: 10MHz Level: 100mV – 3Vpp
TIME REFERENCE	Connector: BNC Female (50Ω / >1KΩ adjustable) Frequency: 1 PPS Level: TTL
RF OUTPUT (ISDBT/TB MODULATOR)	
FREQUENCY	50MHz ~ 1GHz adjustable (1Hz steps)
FREQUENCY STABILITY	Internal Ref. 0.3ppm
SPECTRUM POLARITY	Inverted / Non-Inverted (selectable)
GROUP DELAY RESPONSE	Center Frequency ±2.8MHz: ±10ns
AMPLITUDE FLATNESS	Center Frequency ±2.8MHz: ±0.2dB
SSB PHASE NOISE	10Hz: <60dBc/Hz 100Hz: <86dBc/Hz 1kHz: <100dBc/Hz 10kHz: <105dBc/Hz 100kHz: <110dBc/Hz 1MHz: <120dBc/Hz
AMPLIFICATION STAGE(S)	
FREQUENCY RANGE	IV & V UHF Band: 470 ~ 870MHz
AMPLIFICACIÓN TYPE	Driver: A Class Final Amplifier: AB Class
OUTPUT CONNECTOR	N Female
OUTPUT IMPEDANCE	50Ω
MONITOR OUTPUT CONNECTOR	BNC Female
MONITOR OUTPUT IMPEDANCE	50Ω
SPURIOUS (WITH OUTPUT FILTER)	< -60dBc
HARMONICS (WITH OUTPUT FILTER)	< -60dBc
SHOULDER LEVEL	<-36dBc
MER	> 36dB
OUTPUT POWER	50Wrms
CONTROL AND VISUALIZATION INTERFACES	
OUTPUT POWER CONTROL	Automatic or Manual (selectable)
PARAMETERS VISUALIZACIÓN	On LCD Display (output power, reflected power, amplifier voltage and current, temperature...)
RS 232 INTERFACE	Connector: 9-pin SUB-D Female
HW INTERFACE	Connector: 9-pin SUB-D Female
ETHERNET	RJ46
POWER SUPPLY	
VOLTAGE	90 ~ 264V _{AC}
FREQUENCY	47 ~ 63Hz
TOTAL CONSUMPTION	0.56KVA average
MECHANICAL SPECIFICATIONS (WITHOUT RACK)	
COOLING	Forced Air
DIMENSIONS	483x44x495mm (1 RU of 19" standard rack)
WEIGHT	6Kg

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