

ISDBT-TB DIGITAL TV TRANSMITTERS

MOT 1400 ISDBT-TB

The **MOT 1400 ISDBT/TB** transmitter provides a cost-effective solution to meet the most demanding requirements of today's digital Terrestrial Television Broadcasting. It is made up of the **ISDBT/TB modulator** and two **S 700 ISDBT/TB** amplifiers. An intermediate external driver is included in order to improve the efficiency of the final amplifying stage. Using the complete alarm and digitalized information systems of this transmitter, the user can control and visualize the most relevant parameters of the transmission: modulation (according to the ISDBT/TB standard) and amplification quality. Digital telemetry output is included, and critical or non-critical mask filter can be supplied.



(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	EIA 7/8"
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	1400Wrms
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	5265VA average
MECHANICAL SPECIFICATIONS (WITHOUT RACK)	
COOLING	Forced Air
DIMENSIONS	19RU 19" (1240x590x900mm)
WEIGHT	120Kg

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