

# ISDBT-TB DIGITAL TV TRANSMITTERS

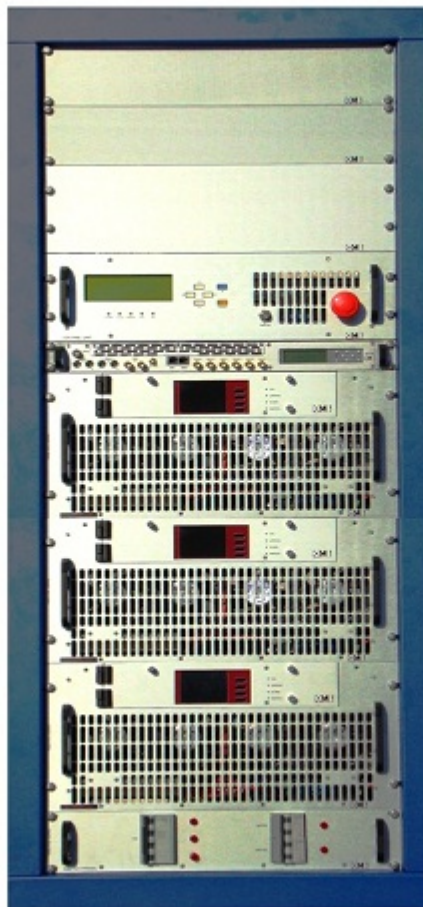
## MOT 2500 ISDBT-TB

The **MOT 2500 ISDBT/TB C** 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 four **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.



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

DTP3 TX3000



| <b>TECHNICAL SPECIFICATIONS</b>                 |  |
|---|--|
| <b>SIGNAL PROCESSING</b>                        |  |
| <b>MODES</b>                                    | 1, 2 and 3 modes   |
| <b>GUARD INTERVAL</b>                           | 1/4 1/8 1/16 1/32  |
| <b>CODE RATES</b>                               | 1/2 2/3 3/4 5/6 7/8  |
| <b>CONSTELLATION</b>                            | QPSK, 16-QAM, 64-QAM, DQPSK  |
| <b>HIERARCHICAL MODE (OPTIONAL)</b>             | Up to 3 layers   |
| <b>NETWORK MODE</b>                             | MFN and SFN (IIP packets)  |
| <b>BANDWIDTH</b>                                | 6MHz   |
| <b>INPUTS</b>                                   |  |
|   | 2 ASI inputs BNC Female 75Ω  |
| <b>CLOCK REFERENCE</b>                          | Connector: BNC Female (50Ω / >1KΩ adjustable)<br>Frequency: 10MHz<br>Level: 100mV – 3Vpp                               |
| <b>TIME REFERENCE</b>                           | Connector: BNC Female (50Ω / >1KΩ adjustable)<br>Frequency: 1 PPS<br>Level: TTL  |
| <b>RF OUTPUT (ISDBT/TB MODULATOR)</b>           |  |
| <b>FREQUENCY</b>                                | 50MHz ~ 1GHz adjustable (1Hz steps)  |
| <b>FREQUENCY STABILITY</b>                      | Internal Ref. 0.3ppm   |
| <b>SPECTRUM POLARITY</b>                        | Inverted / Non-Inverted (selectable)   |
| <b>GROUP DELAY RESPONSE</b>                     | Center Frequency ±2.8MHz: ±10ns  |
| <b>AMPLITUDE FLATNESS</b>                       | Center Frequency ±2.8MHz: ±0.2dB   |
| <b>SSB PHASE NOISE</b>                          | 10Hz: <60dBc/Hz<br>100Hz: <86dBc/Hz<br>1kHz: <100dBc/Hz<br>10kHz: <105dBc/Hz<br>100kHz: <110dBc/Hz<br>1MHz: <120dBc/Hz |
| <b>AMPLIFICATION STAGE(S)</b>                   |  |
| <b>FREQUENCY RANGE</b>                          | IV & V UHF Band: 470 ~ 870MHz  |
| <b>AMPLIFICACIÓN TYPE</b>                       | Driver: A Class<br>Final Amplifier: AB Class   |
| <b>OUTPUT CONNECTOR</b>                         | EIA 7/8"   |
| <b>OUTPUT IMPEDANCE</b>                         | 50Ω  |
| <b>MONITOR OUTPUT CONNECTOR</b>                 | BNC Female   |
| <b>MONITOR OUTPUT IMPEDANCE</b>                 | 50Ω  |
| <b>SPURIOUS (WITH OUTPUT FILTER)</b>            | < -60dBc   |
| <b>HARMONICS (WITH OUTPUT FILTER)</b>           | < -60dBc   |
| <b>SHOULDER LEVEL</b>                           | <-36dBc  |
| <b>MER</b>                                      | > 36dB   |
| <b>OUTPUT POWER</b>                             | 2500Wrms   |
| <b>CONTROL AND VISUALIZATION INTERFACES</b>     |  |
| <b>OUTPUT POWER CONTROL</b>                     | Automatic or Manual (selectable)   |
| <b>PARAMETERS VISUALIZACIÓN</b>                 | On LCD Display (output power, reflected power, amplifier voltage and current, temperature...)                          |
| <b>RS 232 INTERFACE</b>                         | Connector: 9-pin SUB-D Female  |
| <b>HW INTERFACE</b>                             | Connector: 9-pin SUB-D Female  |
| <b>ETHERNET</b>                                 | RJ46   |
| <b>POWER SUPPLY</b>                             |  |
| <b>VOLTAGE</b>                                  | 90 ~ 264V <sub>AC</sub>  |
| <b>FREQUENCY</b>                                | 47 ~ 63Hz  |
| <b>TOTAL CONSUMPTION</b>                        | 10kVA  |
| <b>MECHANICAL SPECIFICATIONS (WITHOUT RACK)</b> |  |
| <b>COOLING</b>                                  | Forced Air   |
| <b>DIMENSIONS</b>                               | 31RU 19" (1780x590x900mm)  |
| <b>WEIGHT</b>                                   | 200Kg  |

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