

## 2.5KW MF/HF TRANSMITTER MODEL TX2500A

Completely solid state. As it is made with modular technique, it is easier to repair.

Broadband technology in the coverage from 2 to 30 MHz with instantaneous change of the working frequency and a resolution of 1 Hz.

Appropriate for military, civil, aeronautical and maritime communication use, either on boat or coast station.

Exciter design completely DIGITAL.

### SDR Technology VoIP

**MF / HF**  
**2 to 30 Mhz**  
**2500 W**  
**Ethernet or RS232C**



## ● MAIN CHARACTERISTICS

- Frequency range 2 to 30 MHz
- Output power 2500W
- Telephony and data communication
- Memorizes up to 255 channels
- Remote control via Ethernet or RS-232-C
- Voice over Ip (VoIP) or input line 600 Ω

## ● TECHNICAL CHARACTERISTICS

### GENERAL SPECIFICATIONS

- Rated Power: 2500W ± 1dB
- Completely design in solid state.
- Possibility of operating in reduced powers.
- Remote control through Ethernet or bus RS-232-C.
- Number of channels to memorize: 255
- Operates in all modes: Telegraphy, Voice, Data and NAVTEX.
- SWR tolerance ≤ 3:1.
- Works with three-phase or single-phase current.
- Made of aluminium able to work in seacoast areas with extreme temperatures and humidity.
- Mechanical design of small size.
- Voice over Ip (VoIP) or input line 600 Ω.
- Compatible with external gateway
- Compatible with ED137B external gateway

- Wattmeter (incident/reflected/SWR) Incorporated.
- Power amplifiers: solid state.
- Radiated harmonics: -60dB.
- Out-of-band spurious :-60dB.
- Intermodulation (2 tones): -36dB at pep.  
Output impedance: 50  $\Omega$
- Output connector RF: 7/8 (female).
- Broadband designed without frequency tuning
- Working regime: continuous.
- Transmission modes J3E, J2A, J2B, H3E, A1A, F1B and ISB.
- Frequency response: 300-3000 Hz.
- Ripple band:  $\pm 0.2$ dB.
- Out-of-band attenuation: -60dB.
- Carrier attenuation: J3E -60dB.  
H3E -6dB.  
TUNE -10dB.
- Not desired side band attenuation: -60dB.
- ON/OFF relation (A1A, J2A): -60dB.
- Microphone inputs: asymmetric.
- Micro PTT input: connected to ground.
- Line input: symmetric/Asymmetric.
- Line input impedance: 600  $\Omega$ .
- Adjustable input level OdBm (nominal).
- Audio response: 250/4000 Hz.
- Line compression -20dBm to +10dBm.

## ELECTRICAL SPECIFICATIONS

Working frequency: 2 - 30 MHz.  
 Frequency resolution: 1 Hz.  
 Frequency stability: 0.5ppm.  
                                   Optional 0.01ppm.  
                                   Optional 0.001ppm.  
 Output power: 2500W  $\pm 1$ dB.  
 Power regulation: -3dB, -6dB, -10dB.  
 Compressor response time: 1ms.  
 Compressor fall time: 230ms.  
 PTT input line Connected to ground.

Data PTT through line Connected to ground.  
 Line compressor in data OdBm. to +6dBm.  
 Audio input level OdBm.  
 Keyer input Connected to ground.  
 Keying modes J2A, A1A.

## ENVIRONMENTAL SPECIFICATIONS

- Operation temperature: 0 to 50°C.
- Storage temperature: -30 to 80°C.
- Humidity: 90 %

## MECHANICAL SPECIFICATIONS

Mechanical composition:  
 -Digital exciter model EX100A (1).  
 -Linear amplifier model LA2500A (1).  
 -Power supply model PS2500A (1).

External dimensions:   Height 700mm.  
                                   Width 600mm.  
                                   Depth 800mm.  
 Fabrication Anticorrosive aluminium.  
 Total weight 180Kg

## POWER SUPPLY SPECIFICATIONS

- Single phased: 220Vac  $\pm 10\%$
- Three phased: optional
- Consumed power in transmission:  
                                   -220VA --- 7500Wts  
                                   -380VA --- 7000Wts

The product specifications and features are subject to change without prior notice