

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 RS232



● 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
- 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.
- Number of channels to memorize: 255
- Operates in all modes: Telegraphy, Voice, Data and NAVTEX.
- SWR tolerance ≤ 3:1.
- Works with there-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 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 Ω
- 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: ± 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 Ω .
- 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 ± 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 90Kg

POWER SUPPLY SPECIFICATIONS

- Single phased: 220Vac $\pm 10\%$
- Three phased: optional
- Consumed power in transmission: -220VA --- 5000Wts

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