TX 1 | 1000W **TX 05** | 500W **VL 05** 1 500W

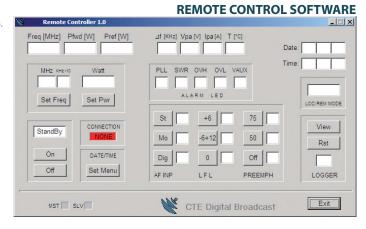
THE TX 1 AND TX 05 ARE REALLY INNOVATIVE FM TRANSMITTERS WITH 1000W AND 500W OUTPUT POWER RESPECTIVELY. THANKS TO THE NEW SOLUTIONS THAT OUR ENGINEERS HAVE IMPLEMENTED IN THE CIRCUITRY AND TO THE COMPACT DESIGN, FOR THESE TRANSMITTERS WE HAVE ESTIMATED A 20% LONGER MTBF WITH RESPECT TO THE AVERAGE SIMILAR MODELS AVAILABLE IN THE MARKET.

THE TX 1 AND TX 05 ARE EQUIPPED WITH A MICROPROCESSOR BOARD THAT ALLOWS THE PROGRAMMING FROM THE LOCAL DISPLAY OR EVEN REMOTELY, THROUGH A STANDARD RS232 OR SNMP. THANKS TO THE ULTIMATE ELECTRONIC COMPONENTS THAT HAVE BEEN LARGELY IMPLEMENTED IN THE DESIGN, ALSO THE RF SPECTRUM SPECIFICATIONS HAVE BEEN SIGNIFICANTLY IMPROVED.



THE EQUIPMENT COMPLIES WITH THE RTTE EUROPEAN REQUIREMENTS. SOLID STATE AMPLIFIER WITH MOSFET TECHNOLOGY.

- OUTPUT POWER ADJUSTABLE FROM 100W TO 1000W
- USER FRIENDLY FOR MONITORING AND CONTROL
- **DOUBLE STAGE POWER SUPPLY**
- V FAST AND MULTIPLE PROTECTIONS
- COMPACT AND MODULAR DESIGN FOR QUICK AND EASY MAINTENANCE
- FLEXIBLE TELEMETRY SYSTEM AND REMOTE CONTROL
- N+1 HARDWARE AND SOFTWARE CONTROL FACILITY



's CODE	MODEL	DESCRIPTION
0005310008	TX05	500 W Stereo, Mono, MPX Transmitter
0005310036	TX05	500 W Stereo, Mono, MPX Transmitter with option A&B
0005310009	TX1	1 KW Stereo, Mono, MPX Transmitter
0005310035	TX1	1 KW Stereo, Mono, MPX Transmitter with option A&B
0000130266	VL05	500 W Power Amplifier 87.5-108 MHz
0000130308	VL05	500 W Power Amplifier 87.5-108 MHz with option A
0000130267	VL1	1 KW Power Amplifier 87.5-108 MHz
0000130307	VL1	1 KW Power Amplifier 87.5-108 MHz with option A
Option and accessories		
0000170073	TC35	Kit GSM TC35 remote control FM equipment

» TECHNICAL DATA »

SEREQUENCY

87,5 ÷ 108 MHz Internal Setting mode 10 KHz steps

External Setting mode 10 KHz steps by remote control RS232-RS485

Generation PLL synthesizer Control Microprocessor Output frequency stability \pm 300 Hz / 3 months Reference TCXO 12,8 MHz ± 75 KHz Nominal deviation

Stability of Frequency Deviation ± 2,5 % over 6 months

Impedance RF Connector 50 Ohm

⅓ RF OUTPUT SPECIFICATIONS

Harmonics suppression < - 75 dBc < - 90 dBc **Spurious Emission** Off Lock Attenuation > 60 dBc

S/N RATIO (weighted) > 73 dB (referred to ± 75 KHz)

THD 0,10% **VSWR**

Less then 1.5:1 Probe BNC connector RF - 40 dB

BNC connector LF

MONO MPX SPECIFICATIONS

600 Ohm bal. or 10 KOhm unbal., Mono/MPX Impedance

XI R female Connector

From - 6 to + 12 dBm Mono Level

MPX Level

Audio Filter Response > 30 dB (from 19 KHz to 100 KHz) < 0,2% From 40 Hz to 15 KHz

Suppression of 19 KHz $> 46 \, dB$

RDS and **SCA** Impedance 10 KOhm unbal., BNC Connector (with 30 Hz

to 100 KHz Filter)

STEREO SPECIFICATIONS

600 Ohm bal. or 10 KOhm unbal, Left, and Right Impedance XLR female Connector

Left, Right Level From -6 to +12 dBm

> 50 dB (@ 19 KHz) Crosstalk

THD on Encoded channels < 0,3 % From 0,4 Hz to 15 KHz > 50 dB

Suppression of 38 KHz Spurious suppression

According to ETSI 300-384 outside band

Sub Carrier Generation Internal Cristal 19 KHz ± 1 Hz **Pilot Frequency**

⅓ DESIGN DATA

Solid state direct FM frequency

Pre -emphasis Flat or 75 or 50 µs

Audio frequency response \pm 0,2 dB (from 40 Hz to 15 KHz) (stereo) ± 0,3 dB (from 40 Hz to 100 KHz) (MPX)

Unbalance rejection

Modulation Type: Direct VCO frequency modulation F3E/F8E

Capability: Meets or exceeds all CE 99/ 05

R&TTE requirements

Digital Input AES/EBU

⅓ REMOTE CONTROL

LAN WEB Broser by TCCP/IP SNMP Protocoll (RJ45)

Software Remote Controller by GSM Modem RS232

RS485 Internal BUS connection for syste

connectivyity(DB9 in&out)

Parallel A I/O DB15

S STANDAROS COMPLIANCE

Radio spectrum ETSI 300-384; ETS 302-018 **EMC** ETSI 300-447; ETS 301-489 EN 60950 - EN 60215 Safety

STEMPERATURE

Operating range 0° to 45° C - 40° to 60° C Storage range Maximum relative Humidity 90% non condensing Max Operating Altitude 2500 mt. a.s.l.

⅓ SPECIFICATIONS	TX1/UL1	TX 05 / VL 05
RF output power rms	From 100 to 1000 W	From 50 to 500 W
Output Connector	7/16 Type Female	7/16 Type Female
Dimensions (W x H X D) mm	482 x 132 x 700 (550 x 270 x 800 Package)	482 x 132 x 700 (550 x 270 x 800 Package)
Weight	18 Kg (20 Kg. Package)	17 Kg (19 Kg. Package)
Power consumption	Approx. < 1800 VA	Approx. < 900 VA
Nr. of power supplies	230 Vac±15%, single phase;	230 Vac±15%, single phase;
Number of fans	2 blowers 24 V dc	2 blowers 24 V dc