



TXSM10000A

FM Solid State Stereo Transmitter

TXSM10000A Main features:

- Digital sound quality
- High S/N ratio at 90dB
- High stereo separation equal to 60dB
- Managed completely by microprocessor
- Switching-mode power supply
- MOSFET amplifications
- High performances with low energy consumption
- Touch-screen display
- Display of alarms for maximum power, SWR, temperature, unbalancing, power supply voltage
- Complete working redundancy
- All the working parameters are shown on the display

The **TXSM10000A** is composed by:

- 1 **MIRA250S** FM Transmitter
EKA 10000S FM Amplifier
- 2 Power Control
- 3 Amplifier Control
- 4 n. 4 **EKA 2500S** Amplifier Module

TECHNICAL SPECIFICATIONS

RF SECTION

Rated output power	10kW (± 0.6 dB)
RF Output connector	1+5/8"
RF Output impedance	50
Frequency range	87.5 - 108MHz
Frequency programmability	Step 10/50/100kHz from panel
Frequency stability	Better than 2.5ppm (option 0.05ppm)
Spurious and harmonic suppression	Meets or exceeds all FCC and CCIR requirements
Modulation capability	Meets or exceeds all FCC and CCIR requirements
Asynchronous AM S/N ratio	60dB or other
Synchronous AM S/N ratio	50dB or other

SOUND SECTION

● **MPX Operation**

Audio input	2Vpp, XLR connector, 600 /10k (internal jumper)
Frequency amplitude response	± 0.1 dB, 30Hz - 100kHz
Harmonic distortion	< 0.1%, 30Hz - 100kHz
S/N Ratio with CCIR unweighed	83dB
S/N Ratio with CCIR weighed	80dB
S/N Ratio with RMS Detector	90dB

● **MONO Operation**

Audio input	2Vpp, XLR connector, 600 /10k (internal jumper)
Frequency amplitude	± 0.2 dB, 30Hz - 15kHz
Harmonic distortion	< 0.05%, 30Hz - 15kHz
Pre-emphasis	Flat, 50 s, 75 s
S/N Ratio with CCIR unweighed	82dB
S/N Ratio with CCIR weighed	78dB

● **Internal Coder**

Audio input	2Vpp, XLR connector, 600 /10k (internal jumper)
Frequency amplitude	± 0.2 dB, 30Hz - 15kHz
Harmonic distortion	< 0.05%, 30Hz - 15kHz
Pre-emphasis	Flat, 50 s, 75 s
Stereo separation	> 50dB (typ. 60dB)
S/N Ratio with CCIR unweighed	76dB
S/N Ratio with CCIR weighed	72dB

● **SCA Operation**

Audio input	2Vpp, BNC connector, 10k
Frequency amplitude response	± 0.1 dB, 49Hz - 100kHz

● **Auxiliary**

Serial interface	RS232, RS485
------------------	--------------

GENERAL

AC Power requirement	400Vac, 3Ph+N (other voltage on request)
Power consumption	26000VA
Dimensions	Racks 19"-39U
Ambient temperature	-5° to +45°C

ELTRONIKA
SRL

S.S. 96 Km 113 Z.I.
70027 PALO DEL COLLE (BA) ITALY
Tel. 080/626755 • Fax 080/629262

E-mail: eltronika@eltronika.it • Web site: <http://www.eltronika.it>