

VERY HIGH EFFICIENCY MINIMUM ECONOMIC SPACE

LAST TECHNOLOGY IN FM TRANSMITTERS



MAIN FEATURES

- Highest efficiency
- Nominal RF power 2000W, 3000W
- Very low signal noise typ. -80 dB
- High stereo performance typ. 60 dB
- Extremely low distortion 0,01%
- Completely broadband
- 6th LD-MOS generation VSWR 65:1
- Large LCD color display with touch panel
- AC mains 90-260 VAC extend range with PFC
- CCIR & FCC compliant
- WEB SERVER

OPCIONES

- AES/EBU
- RDS/RBDS coder
- SNMP Remote Control
- OIRT and JPN versions
- Audio IP
- Digital Device

AES/EBU
SPDIF

HIGHEST
EFFICIENCY

LCD COLOR
TOUCH
PANEL

VSWR
65.1

LOW S/N
85 dB

STEREO
60 dB

LOW
DISTORSION

WEB SERVER
SNMP

RDS/RBDS
CODER

OIRT/JPN
VERSION

TECHNICAL SPECIFICATIONS

GENERAL

Power Output: 2000W, 3000W adjustable from front panel
RF Output Impedance: 50 ohm.
RF Output Connector: 7/8" (1500-2000-3000W)
Monitor RF: BNC connector.
VSWR: 1,5:1 WITH AUTOMATIC FOLDBACK
Frequency Range: 87.5 ÷ 108.00 MHz, on request 66 ÷ 74 MHz (OIRT)
76 ÷ 90 MHz (JPN) Programmable in 1 Hz steps Programmable in 10 kHz steps.
Frequency Stability: ±1 ppm from -5 to 45°C.
External Reference: 10 MHz BNC connector back panel.
Type of Modulation: analog synthesis.
Off Lock Attenuation: ≥ -80 dBc.
Modulation Capability: ±150 KHz.
Limiter built in
Power Good Detector: adjustable from 20÷90% of the power.
Audio Presence Detector: adjustable time from front panel.
External AGC: Automatic, with fine ADJ from front panel.
Modulation Mode: Mono, Stereo, Multiplex, SCA, RDS, Aux.
Preemphasis: Flat/50/75µs selectable from front panel.
Asynchronous AM S/N Ratio: -70 dB.
Synchronous AM S/N Ratio: -65 dB .
RF Harmonics: Exceeds EBU/CCIR/FCC requirements.
RF Spurious: Exceeds EBU/CCIR/FCC requirements.

MONAURAL OPERATION

Audio Input Impedance: 600 ohm - ≥10 Kohm balanced.
Audio Input Level: -6 to +12 dBm
Input Connector: XLR female.
Audio Frequency Response: ±0.1 dB, 20 Hz to 15 KHz.
Total Harmonic Distortion + Noise: 0.01% @ 400 Hz.
Intermodulation Distortion: 0.01%, 1 KHz/1.3 KHz, 1:1 ratio.
Transient Intermodulation Distortion: 0.01% 2.96KHz square wave and 14 KHz sine wave.
Distortion: 0.01% 2.96KHz square wave and 14 KHz sine wave.
FM S/N Ratio: -85 dB rms detector, -80 dB below ±75 KHz deviation.

STEREO OPERATION

Audio Input Impedance: 600 ohm - ≥10 Kohm balanced.
Audio Input Level: -6 to +12 dBm
Input Connector: XLR female.
Audio Frequency Response: ±0.1 dB, 30 Hz to 15 KHz.
Total Harmonic Distortion + Noise: 0.01% @ 400 Hz.
Intermodulation Distortion: 0.01%, 1 KHz/1.3 KHz, 1:1 ratio.
Transient Intermodulation Distortion: 0,01% 2.96KHz square wave and 14 KHz sine wave.
FM S/N Ratio: -85 dB rms detector, -80 dB below ±75 KHz deviation.
Stereo Separation: 20 Hz ÷ 15 KHz ≥ -60dB
Crosstalk attenuation Main to Sub -70 dB 30 Hz to 15 KHz
38 KHz Suppression: ≥ -85 dB.
Pilot Frequency: 19 KHz ± 1 Hz
Output Pilot: 1Vpp BNC Female.

MULTIPLEX OPERATION

Composite Input Impedance: 2 Kohm unbalanced.
Composite Input Level: -6 to +12 dBm
Input Connector: BNC female.
Composite Amplitude Response: ±0.1 dB, 30 Hz to 100 KHz.
Total Harmonic Distortion + Noise: 0.01% @ 400 Hz.
Intermodulation Distortion: 0.01%, 1 KHz/1.3 KHz, 1:1 ratio.
Transient Intermodulation Distortion: 0.01% 2.96KHz square wave and 14 KHz sine wave.
FM S/N Ratio: -85 dB rms detector, -80 dB below ±75 KHz deviation

AES/EBU OPERATION (optional Analog)

Input Connector: XLR female, optical TOS-LINK.
Data Format: S/PDF, AES/EBU, IEC958, EIAJCP340/1201.
Input Impedance: 100 ohm
Sampling Frequency: from 32 to 96 KHz.

SCA, RDS, AUX OPERATION

Input Impedance: ≥ 2 Kohm.
Input Level: -6 to +12 dBm.
Frequency Response: ±0.1 dB, 50 KHz to 100 KHz.
Input Connector: BNC female.

AUXILIARY CONNECTIONS

RS485: DB9 connector back panel.
Telemetry Interface: connector DB25 back panel.
LAN: RJ45 connector back panel
MPX OUT: connector BNC back panel.

OPTIONS

RDS/RBDS Programmable Coder via PC.
OIRT or JPN version.
SNMP
Audio Over IP
AES/EBU -SPDIF

ELECTRICAL

AC Input Power: 90÷260 VAC 1phase, 180÷400 VAC 50/60 HZ 3phase
AC Apparent Power Consumption: 2200VA @ 1500W, 3200VA @ 2200W, 4600VA @ 3200W
Cos Φ > 0.98.
Cooling: Forced air.

ENVIRONMENTAL

Operating temperature: -5°C to +50°C.
Max Operating Altitude: 2000 mt.
Relative Humidity Range: 0 to 90%.

PHYSICAL DIMENSION

Mounting: Standard 19" chassis 3 U rack.
Size: W x 570 mm. D x 450 mm. H x 132 mm.
Weight: ~ 22 Kg

Software update

Core micro : Via Web