

## VERY HIGH EFFICIENCY MINIMUM ECONOMIC SPACE

## LAST TECHNOLOGY IN FM TRANSMITTERS



### MAIN FEATURES

- HIGHEST EFFICIENCY
- NOMINAL RF POWER 6000W
- 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

### OPTION

- AES/EBU
- RDS/RBDS coder
- SNMP remote control
- OIRT and JPN version
- 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

## GENERAL

**Power Output:** 6000W adjustable from front panel  
**RF Output Impedance:** 50 ohm.  
**RF Output Connector:** 7/8"  
**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  
**Frequency Stability:** ±1 ppm from -5 to 45°C.  
**External Reference:** 10 MHz BNC connector back panel.  
**Type of Modulation:** analog  
**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, 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.  
**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:** 110 ohm  
**Input Level:** -20 to +0 dBfs  
**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:** 180÷400VAC 50/60 HZ 3phase  
**Power Consumption:** 8800VA @ 6000W  
**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 4 U rack.  
**Size:** W x 570 mm. D x 450 mm. H x 176 mm.  
**Weight:** ~ 28 Kg

## Software update

Core micro : Via Web