

Following the legendary line of FM transmitters ESVA, of which were built over 12,000 pieces, Continuing the tradition, introduce the new ESVB line, the best in our long 40 years of history of manufacturing Radio FM products.

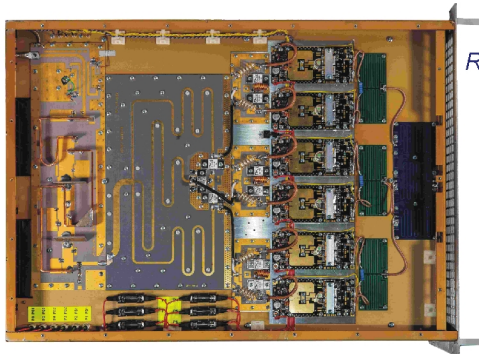
In addition to the well-known quality and reliability, this new line has those features and functions considered indispensable in today's high class equipments, such as top energy efficiency, telemetry LAN, IP connection and N+1 configuration.

KEY FEATURES

- Excellent audio performance
- Compact size in relation to the RF power
- Low power consumption
- Last generation of RF power devices
- Frontplane control and metering via HD Oled Display
- Parameters setting by only one rotary knob
- Quick and easy to use and immediate learning menu
- IP Connectivity for anywhere access
- Quick and easy routine maintenance
- High quality Stereocoder
- RDS Coder
- Telemetry via IP



slide-in power supply
for easy maintenance



RF Power



Rear side

GENERAL

Power Output:.....from 0 to 5000W continuously adjustable from front panel.
Frequency Range:.....87.5+108.00 MHz, [66+74 MHz (OIRT), 76+90 MHz (JPN)]
Type of Modulation:.....Direct frequency modulation of carrier, F3E stereo and mono.
RF Output Impedance:.....50 ohm.
RF Output Connector:7/8"
RF Output setting:.....10W step
VSWR:.....1.5:1 Max with automatic fold-back VSWR prot. at all phase angles
Frequency Stability:Internal TCXO ± 2 ppm from -5 to +50°C (better on request)
Modulation Capability:.....over ± 200 KHz
Audio Inputs:.....L&R analog balanced, Unbalanced composite, SCA, RDS
Operator interface setting:.....Encoder Push-Rotary Selector
LCD Display:.....Oled hi-definition graphic type
Frequency Control:Synthesizer processor controlled.
Programming step:.....10 KHz increments
Interface control:.....N°2 RS485 ports RJ45 back panel
PC Interface: USB:connector Type B female front panel
Telemetry:.....RJ45 LAN connection with WEB-Server
Monitor RF:.....-10 dBm, BNC-F connector
Off Lock RF Muting:< -80 dBc.
RF Harmonics:Exceeds ETSI/CCIR/FCC requirements (< -75dBc)
RF Spurious:Exceeds ETSI/CCIR/FCC requirements (< -90dBc)
Preemphasis:.....Flat/50/75 μ s selectable from front panel.
Asynchronous AM S/N Ratio:.....-65 dB below ref. 100% AM modulation @ 400 Hz.
Synchronous AM S/N Ratio:-60 dB below ref. 100% AM mod. 400 Hz with FM 100%
AC Power Factor:.....0.95 typical at 220VAC
Operating temperature:-10°C to +50°C (32°F to 122°F)
Max Operating Altitude:> 3500 mt.
Relative Humidity Range:0 to 95% non condensing.

MONAURAL FEATURES

Operational Modes:Mono (L+R)
Input Impedance:600 ohm or 10 Kohms balanced.
Input Level:-6 to +12 dBm in 0.5dB step (Other range on request)
Input Connector:.....XLR female - balanced.
Audio Frequency Response:..... ± 0.15 dB, 30 Hz to 15 KHz.
Preemphasis setting:.....0, 50 μ S, 75 μ S
Audio Filter Attenuation:.....< -55 dB @ 19 KHz, < -50 dB 20 KHz to 100 KHz
TH Distortion + Noise:.....< 0.05% @ 400 Hz
FM S/N Ratio:.....better than -80 dB RMS ref. ± 75 KHz 50 μ s deemphasis.

MULTIPLEX FEATURES

Composite Input Impedance:.....600 ohm or 10 Kohms balanced.
Composite Input Level:.....-12 to +6 dBm in 0.5dB step (Other range on request)
Input Connector:.....BNC female.
AES/EBU Input Connector:.....BNC female
Composite Response:..... ± 0.2 dB, 30 Hz to 100 KHz.
THDistortion + Noise:.....0.05% @ 400 Hz
Intermodulation Distortion:.....0.05%, 1 KHz/1.3 KHz, 1:1 ratio
FM S/N Ratio:.....better than -80 dB RMS ref. ± 75 KHz 50 μ s de-emph. decoded.

STEREO CODER FEATURES

Audio Input Impedance:.....600 ohm balanced, 15 Kohm unbalanced.
Audio Input Level:.....-6 to +6 dBm in 0.5dB step (Other range on request)
Input Connector:.....XLR female.
Audio Frequency Response:..... ± 0.15 dB, 30 Hz to 15 KHz.
Preemphasis setting:.....0, 50 μ S, 75 μ S
THDistortion + Noise:.....0.05% @ 400 Hz
Intermodulation Distortion:.....0.05%, 1 KHz/1.3 KHz, 1:1 ratio
FM S/N Ratio:.....-80 dB RMS at ± 75 KHz 50 μ s de-emphasis.
Pilot Frequency:19 KHz ± 1 Hz
38 KHz Suppression:.....-60 dB (typ. -70 dB)
Audio Filter Attenuation:.....< -55 dB @ 19 KHz, < -50 dB 20 KHz to 100 KHz
Stereo Separation:.....30+100 Hz = -50 dB, 100Hz+15 KHz = -60 dB
Crosstalk attenuation:.....Main to Sub -50 dB 30 Hz to 15 KHz below 100% Mod.

SCA-RDS 1&2 SPEC.

Input Level:.....-6 to +6 dBm in 0.5dB step (Other range on request)
Impedance:.....10k ohms unbalanced
Connector:.....BNC female
Amplitude Response:.....+/- 0.1dB; 53Hz to 100kHz

MECHANICAL/PHYSICAL

Height:221 mm (5HE)
Width:19" (48.3 cm) EIA Rack Mount
Depth:23" (605 cm) with connectors
Weight:.....36 kg 78 lbs unpacked

Models: **-S** (Stereocoder built-in) **-RDS** (RDS Coder built-in) **-LAN** (Ethernet connection)