

## POWERING YOUR STATION

Reliable | Efficient | Modern | Affordable



### UNIQUE PRODUCT FEATURES

- FRONTAL HD LED TOUCH SCREEN DISPLAY FOR CONTROL AND VISUAL MONITORING
- DIGITAL AND ANALOG AUDIO INPUTS
- HIGH PERFORMANCE DIGITAL STEREO ENCODER
- BUILT-IN DYNAMIC RDS ENCODER
- FM LIMITER INSIDE TO COMPLY WITH REGULATIONS
- INTERNAL GSM BOARD FOR SMS MONITORING AND CONTROL (OPTION)
- INTERNAL IP BOARD FOR REMOTE CONTROL AND ACTIVE MONITORING
- DIGITAL AUDIO OVER IP CODEC INSIDE (OPTION)
- SHOUTCAST COMPATIBLE
- OPUS CODEC COMPATIBLE
- HIGHEST TOTAL ELECTRICAL EFFICIENCY IN CLASS
- EASY & LOW MAINTENANCE
- EXTREMELY LOW DISTORTION – 0.01%
- SMART SNMP COMMUNICATIONS AGENT (OPTION)
- EXTERNAL I/O SIGNALS TO INTERFACE TO ANALOG MONITORING SYSTEMS
- ANDROID & IPHONE APPS FOR MONITORING AND CONTROL
- BROADBAND OPERATION AND EASY FREQUENCY CHANGE
- EXTENDED VOLTAGE OPERATION - 90-260 VDC WITH EXTENDED RANGE AND PFC
- 6TH GENERATION LD-MOS – VSWR 65:1
- ASSEMBLED AND TESTED IN USA

**COMPACT  
MEDIUM POWER  
FM | 6,000W**



AES/EBU  
SPDIF CODER



HIGHEST  
EFFICIENCY



LCD COLOR  
TOUCH PANEL



VSWR  
65:1



LOW S/N  
85 dB



STEREO  
60 dB



LOW  
DISTORSION



WEB SERVER  
SNMP



AUDIO IP



OIRT / JPN  
VERSION

## Contact Us

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# TECHNICAL SPECIFICATIONS

## ? General

- Power Output: 6000W adjustable from front panel.
- RF Output Impedance: 50 ohm.
- RF Output Connector: 7/8".
- Monitor RF: BNC connector.
- VSWR: 65:1
- 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 back 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.

## ? Mono Operation

- Input Impedance: 600 ohm - 10 Kohm balanced.
- Input Level: -12 to +12 dBm.
- Input Connector: XLR female.
- 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 dev.

## ? Stereo Operation

- Input Impedance: 600 ohm - 10 Kohm balanced.
- Input Level: -12 to +12 dBm.
- Input Connector: XLR female.
- 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 dev.
- Stereo Separation: 20 Hz ÷ 15 KHz ≥ -70dB
- 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: 1 Vpp., BNC female

## ? Multiplex Operation

- Composite Input Impedance: 2 Kohm unbalanced.
- Composite Input Level: -12 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 dev.

## ? AES/EBU Operation

- Input Connector: XLR female, optical TOS-LINK.
- Input Impedance: 110 ohm
- Input Level: -20 to +0 dBfs.
- Data Format: S/PDF, AES/EBU, IEC958, EIAJCP340/1201.
- 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

- CAN BUS/RS485: DB9 connector back panel.
- Telemetry Interface: connector DB25 back panel.
- LAN: RJ45 connector back panel
- MPX OUT: connector BNC back panel.

## ? Options

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

## ? 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



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Features and specifications subject to change without notice.