



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
LOW POWER
FM | 30W -1,000W
MODELS**



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: 50W (typ. 60W), 100W (typ. 110W), 500W (typ. 550W), 1000W (typ. 1100W), adjustable from front panel.
- RF Output Impedance: 50 ohm.
- RF Output Connector: "N"(50-100W), "7/16"(500-1000W) type.
- 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 back panel.
- Modulation Mode: Mono, Stereo, Multiplex, SCA, RDS, Aux.
- Preemphasis: Flat/50/75µs selectable from front panel.
- Asynchronous AM S/N Ratio: -60 dB.
- Synchronous AM S/N Ratio: -60 dB .
- RF Harmonics: Exceeds EBU/CCIR/FCC requirements.
- RF Spurious: Exceeds EBU/CCIR/FCC requirements.

? Mono Operation

- Audio Input Impedance: 600 ohm - 10 Kohm balanced.
- Audio Input Level: -12 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 dev.

? Stereo Operation

- Audio Input Impedance: 600 ohm - 10 Kohm balanced.
- Audio Input Level: -12 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 dev.
- 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: 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 deviation

? AES/EBU Operation

- Input Connector: XLR female, optical TOS-LINK.
- Data Format: S/PDF,AES/EBU, IEC958, EIAJCP340/1201.
- D/A Converter: 24 bit.
- 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: 90÷260 VAC 50/60 HZ single phase.
- AC Apparent Power Consumption: 100VA @ 50W, 200VA @ 100W, 750VA @ 500W, 1400VA @ 1000W.
- Cos Φ > 0.98.
- Cooling: Forced air.
- Acoustic noise:< -56 dBa @ 1 meter.

? 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 2 U rack.
- Size: W x 483 mm. D x 470 mm. H x 88 mm.
- Weight: ~ 6,0 Kg. (50-100w), 15Kg. (500-1000W)



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Features and specifications subject to change without notice.