

KER-RIAB Platform

Complete Turnkey FM Radio Solution

- ⇒ Professional series Transmitter and mixer
- ⇒ Remote connectivity via cellular or SAT-COM transmitter links w/ home station studio
- ⇒ DJ-Style CD/MP3 player, remotely controlled from mixer
- ⇒ Telephone hybrid (enable broadcast of listener "call-ins")
- ⇒ Telephone balancing unit
- ⇒ USB/PC audio interfaces
- ⇒ Laptop computer with professional studio software
- ⇒ Microphones, stands, and headphones

TACTICAL FM Radio In A Box (RIAB)

TACTICAL/Commercial Grade FM Radio in a Cost Effective Package

Scalable 500W to 10KW FM Radio in a Box (RIAB)

- ◆ Pictured is 1KW RIAB—our most popular package
- ◆ Low cost, easy to use and currently deployed in hundreds of locations worldwide.
- ◆ Average time from unpack to full broadcast capacity is less than 30 minutes.
- ◆ Includes industry leading Commercial series FM transmitter, omni-directional antenna, double braided silver plated coaxial cable, dynamic microphone, TOUGHBOOK laptop with BSI Simian Lite software, and a Pelican case for portable use.
- ◆ System is all IP-based and can be locally or remotely operated. Run programs and scripts with full access and control from *anywhere* in the world.
- ◆ Local and remote management and control via Serial Protocol, SMS, GPRS, SNMP or web interface.
- ◆ Accurate and detailed real time data on the operating status of the transmitter is available at the analytical level (voltage, current, power, temperature, efficiency, settings, audio levels, etc.).



Scalable, Multi-Function Capacity

Commercial: solid-state FM transmitters with telemetry, SMS capability, includes MPX and internal GSM. Low power consumption and ICEFET technology.

Norwalk NE34: 3kW vertical polarized, 6db gain, omnidirectional antenna. The Dominator® is a high gain vertically polarized .82 wave antenna.

Andrew FSJ2-50: Superflexible coaxial cable, 3/8", 50 ohm foam HELIAX.

AKG D542 ST-S: Rugged, affordable, dynamic cardioid gooseneck microphone for general public address and communications use. The D542 provides a frequency response tailored to speech use for optimum intelligibility as well as good off axis rejection for high gain before feedback and suppression of unwanted ambient noise.

Panasonic TOUGHBOOK Laptop with BSI Simian 2.0 Lite Software: Full featured, professional radio automation and computer playout system for Radio and Internet Broadcasting.



KER-RIAB Specifications*

General Data

Output Nominal Power: (500W -10,000W (various Transmitter sizes to choose from): .
Operating band 87.5 ÷ 108 MHz
RS232/RS485: Yes.
Connector: DB9 female
Points of measure: RF Sample - MPX Monitor
Displayed Parameters: More than 50 parameters displayed on a wide graphic 0-LED screen
Adjustments: From the frontal panel through OLED/from PC
Number of L-DMOS in amplifier stage: 3
RF power stage technology: ICEFET & ECOSAVING
Dimensions: 500 and 1000 W (most popular) Rack units 2 RU
Dimensions: (1000 W) W - H - D 48.5 - 8.5 - 58.5 cm / 19.11 - 3.35 - 23.05 inches
Weight: (500 W) 22.2 Kg / 49.1 lbs

RF Performance

Output impedance: 50 Ω
Automatic power RF control stabilizes the output power value to the target power level selected
Overall output power RF stability: +/- 0,1 dB
VSWR 2:1 at full power. Automatic power reduction beyond 1.7:1
Harmonics: < -75 dBc
Out of band emission (spurious): < -80 dBc

*Specifications subject to change without notice.



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