

KER-RIAB Radio in a Box

KER-RIAB Platform

Complete Turnkey FM Radio Solution

- ⇒ Professional broadcast mixer
- ⇒ Remote connectivity via cellular or BGAN transmitter links with 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

1500 Watt Software Defined (SDR) Radio in a Box (RIAB)

This is our most popular package by far. Low cost, easy to use and currently deployed in hundreds of locations worldwide. The KER-RIAB includes an ELENOS ETG1500 FM transmitter, Norwalk NE34 omnidirectional antenna, double braided silver plated coaxial cable, AKG D542ST dynamic microphone, laptop with BSI Simian Lite software, and a Pelican case for portable use. The average time from unpack to full broadcast capacity is less than 30 minutes. The system is all IP-based and completely remoteable. Run programs and scripts with full access and control from *anywhere* in the world. 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.). Local and remote management and control via Serial Protocol, SMS, GPRS, SNMP or web interface.

Scalable, Multi-Function Capacity

ELENOS ETG1500: 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 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.

Laptop with BSI Simian 2.0 Lite Software: Simian 2.0 is a fully featured, professional radio automation and computer playout system for Radio, Internet and Satellite Broadcasting.



KER-RIAB Specifications*

General Data

Output Nominal Power 2000 W adjustable

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: Rack units 2 RU

Dimensions: W - H - D 48.5 - 8.5 - 58.5 cm / 19.11 - 3.35 - 23.05 inches

Weight: 13.2 Kg / 29.1 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 upgrades and changes without notice*



Kerberos International, Inc. | www.KerberosInc.com | 888.784.1660 | 210.473.5327