Apache Technologies Pvt.Ltd.

Software | Embedded | eCommerce | eFinance

radioSOFT 1.0

Advanced Tactical Software Defined Radios

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The radioSOFT 1.0 is the high performance mid-range 100 watt all-band, all-mode tactical radio transceiver that achieves receiver performance that rivals all other traditional analog or hybrid DSP transceivers in its price class.

- ✓ radioSOFT 1.0 is next generation portable radio system providing secure & reliable voice & data communications for mobile military users and secure transmission.
- ✓ Supports the HF frequency range from 1.8 MHz to 65 MHz & VHF frequency range from 135.0 MHz to 185.0 MHz
- ✓ Allows receive & transmit in all modulation schemes viz. SSB, AM, FM, CW and Digital Data.
- ✓ Dynamically compute the required filters. Provides Automatic notch filter, noise reduction, noise blanker and squelch etc.
- ✓ Supports 3/10-band Equalizer and the Multi-Receive capabilities to demodulate two different signals in the same pass band.
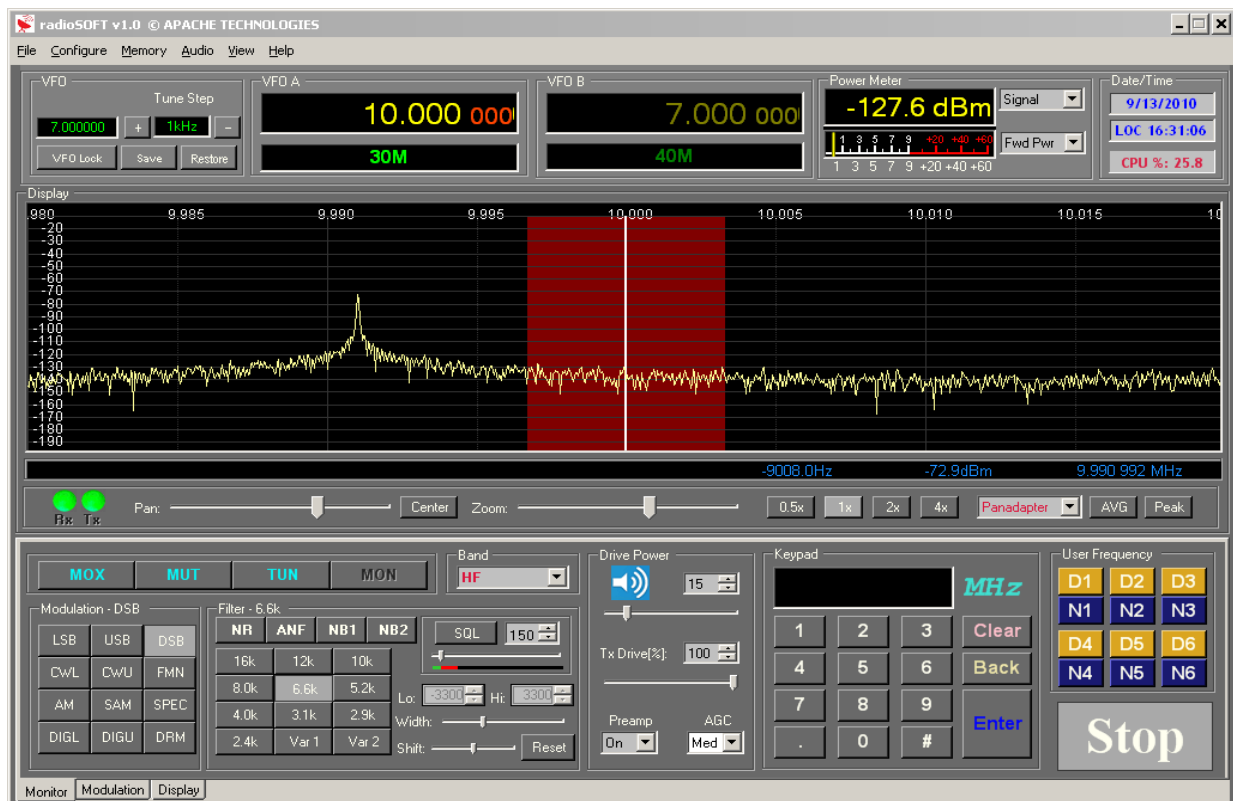- ✓ Provides 128 bits AES (Advanced Encryption Standard).

Fig. 1. radioSOFT 1.0 Software Application

Fig 2. Front View

Fig 3. Rear View

Specifications

Frequency coverage
HF: 1.8 MHz to 65 MHz
VHF: 135 MHz to 185 MHz

Power requirement

13.8 ± 10% V dc;

Receive 2.8 A (max audio)
Transmit 3.5 A (max audio)

Modes of operation
SSB, CW, AM, FM, RTTY, and Packet etc.

Receiver
SSB/CW sensitivity: 500 Hz bandwidth,
14 MHz MDS, preamp off/on: –123/–133 dBm.

Transmitter
Power output 1 to 100 W PEP

CW, SSB, AM 1-25 W.

Spurious-signal and harmonic suppression
>55 dB on HF,>65 dB on 50 MHz.

SSB carrier suppression
55 dB

Undesired sideband suppression
55 dB

Third-order inter-modulation distortion (IMD) products
>33 dB below PEP at 14.2 MHz

Size (height, width, depth)
1.8 × 12.3 × 12.3 inches

Weight
3.4 Kg approx

About Us

Apache Technologies Pvt. Ltd. offers a wide range of software & hardware solutions and IT services. We maintain a resolute commitment to understand technology evolution and its relevance to various business applications. Let us help to optimize your business processes for maximum efficiency and galvanize your software requirements to be both resilient and robust. We cater to market needs driven by global trends, including digital consumers, emerging economies, new commerce and healthcare.

We are associated with leading firms, including several IT and Technology majors. We offer complete Software Development, Solutions & Services, Mobile Application Development, Embedded Software & Hardware, SAP Consultancy & Business Solutions, Web Applications Development, Website Designing & Maintenance, E-Commerce Solutions, Multimedia Solutions and Trainings.

We leverage comprehensive business and technology solutions across diverse domain. We address real world challenges that lead to successful transformation. Strategic thinking, competitive pricing, timely results, and efficient work force - experience a world of a difference with Apache technologies.

"We have consolidated our years of experience, knowledge and expertise, to provide business oriented solutions, which are utilized by many of our customers every day."

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