

# REAL TIME SPECTRUM ANALYZERS

8 GHz, 18 GHz & 27 GHz available

with up to 160 MHz RTBW

**STARTS AT \$3,950 USD**



## MODELS:

### RTSA 7550-8

- 100 kHz to 8 GHz with 100 MHz Instantaneous BW

### RTSA 7550-18

-100 kHz to 18 GHz with 100 MHz Instantaneous BW

### RTSA 7550-27

-100 kHz to 27 GHz with 100 MHz Instantaneous BW

## KEY FEATURES:

- Frequency Range from 100 kHz to 8, 18, or 27 GHz
- DSP filtering and decimation
- Real-time FPGA triggering for detection of elusive, time-varying signals
- Real-Time Bandwidth (RTBW) up to 160 MHz
- Probability of Intercept (POI) as short as 1.02  $\mu$ s
- Spurious Free Dynamic Range (SFDR) up to 100 dBc
- 10 MHz in/out for multi-channel synchronization
- Analog I/Q outputs for higher sampling rate digitization
- Open source Python, LabVIEW, MATLAB®, C/C++ and SCPI/VRT APIs

The Model RTSA7550 is a high performance Software-defined Radio Receiver designed for various electronic warfare applications. The large operating frequency range of 100 kHz up to 27 GHz and wide instantaneous bandwidths allow meet the challenges of spectrum monitoring. Packaged in a small, remote deploy-able form factor allows for field use at a superior cost performance than rival high-end receivers.

- High Performance Software-defined Radio Receiver
- Frequency Range from 100 kHz up to 27 GHz with wide instantaneous bandwidth up to 160 MHz
- 1 Gb Ethernet interface with both desktop and remote access and reconfiguration
- Rich API support with C/C++, Python, MATLAB, LabVIEW
- Intuitive Real-time Spectrum Analyzer GUI



**Berkeley Nucleonics Corp**

Berkeley Nucleonics Corp., 2955 Kerner Blvd. San Rafael CA 94901

Email [RFsales@berkeleynucleonics.com](mailto:RFsales@berkeleynucleonics.com), Call 800-234-7858 or LIVE-Chat @ [www.berkeleynucleonics.com](http://www.berkeleynucleonics.com)

# REAL TIME SPECTRUM ANALYZERS

8 GHz, 18 GHz & 27 GHz available

with 160 MHz RTBW

## RTSA7550 Top Level Specifications

Model	8 GHZ	18/27 GHz	Comments
SSB Phase Noise	-100 dBc/Hz	-100 dBc/Hz	10 kHz Offset @ 1 GHz
SSB Phase Noise	-121 dBc/Hz	-121 dBc/Hz	1 MHz Offset @ 1 GHz
DANL	-150 dBm/Hz	-161 dBm/Hz	@ 1 GHz
DANL	-145 dBm/Hz	-157 dBm/Hz	@ 3 GHz
DANL	-131 dBm/Hz	-158 dBm/Hz	@ 8 GHz
(TOI) Third Order Intercept	+12 dBm	+12 dBm	@ 1 GHz



**BNC** Berkeley Nucleonics Corp

Berkeley Nucleonics Corp., 2955 Kerner Blvd. San Rafael CA 94901

Email [RFsales@berkeleynucleonics.com](mailto:RFsales@berkeleynucleonics.com), Call 800-234-7858 or LIVE-Chat @ [www.berkeleynucleonics.com](http://www.berkeleynucleonics.com)