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Find the *Astronics / EADS / Racal 2561* at our website: *Click HERE*

RF Receiver and Signal Analyzer

2561 (Obsolete Product)



(http://astronics
/files/2551_256

The Racal Instruments™ 2561 VHF/UHF Receiver is a high performance computer controlled 20 to 1200MHz single-slot C-sized VXIbus DSP receiver. Systems requiring standard instrumentation can now include the latest in receiver technology. All of your VHF/UHF communication as well as Test & Measurement requirements are accomplished utilizing Digital Signal Processing (DSP) design for superior performance, higher reliability and lower cost.

Signal Analyzer
In production ATE systems, where known frequencies need to be checked for spurious or harmonic content, the 2561 may be used as a signal level analyzer. The cost savings over a spectrum analyzer are significant.

Automated RF Monitoring
Applications that require frequency occupancy or remote monitoring can now utilize up to 12 Model 2561's in a single mainframe. This "system" may be located in the back of a vehicle or unmanned location. A program to control and gather data from the receivers can be built onto an embedded computer. The gathered data can be sent over the radio or land line to a central location.

RF Applications
Applications include cellular radio frequency occupancy monitoring, propagation studies, direction finding and RF interference locating. This DSP receiver offers significant improvement over analog receivers. These improvements include increased stability and precisely controlled filter characteristics which translates into greater reliability and performance.

Flexible Scan and Sweep Modes
Scan up to 250 pre-selected channels at a preset scan rate (up to 100 ch/s) and squelch level (ranging from 6 to 30dB). Sweep through up to 125 user-selectable bands setting dwell and bridge times of up to 9 seconds. Sweep step size may be specified and up to 100 frequencies may be skipped.

Complex DSP Functions in Flash Memory
Harness the power of DSP technology by loading the 2561's on-board flash with user-specified demodulation schemes, filtering or complex functions. Flash memory may be re-programmed any time over the VXIbus transforming the 2561 into a custom receiver for special applications.

Product Features:

- 20-1200 MHz Tuning Range with 10 Hz Tuning Resolution
- High Dynamic Range
- Quadrature Digital IF Output (I&Q)
- Sweep or Scan up to 100 Channels per Second
- 17 Standard Bandwidths

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