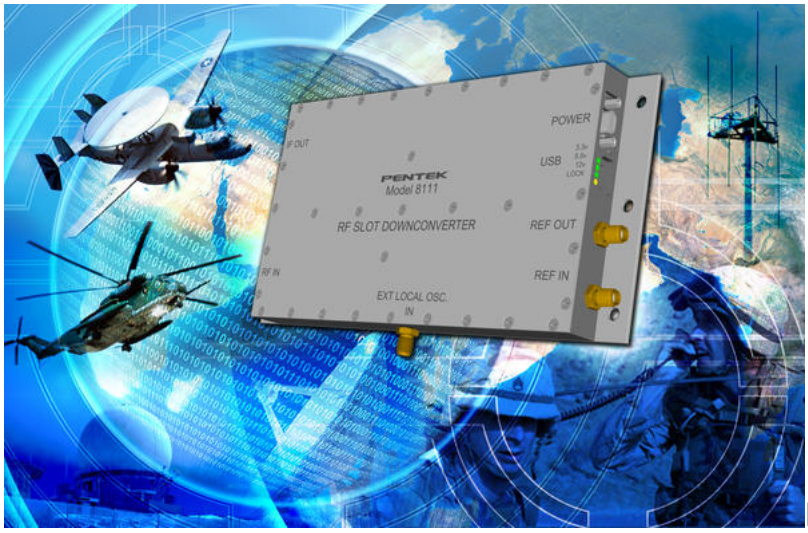
Multiband, modular RF slot receivers accept RF signals over the range of 800 MHz to 3 GHz



Pentek, Inc.announced a new line of multiband, modular RF slot receivers: the Model 8111 series accepts RF signals over the range of 800 MHz to 3 GHz, downconverting them to a 225 MHz IF signal suitable for A/D conversion by any of several Pentek signal acquisition modules.

The internal frequency-synthesized local oscillator can be locked to an external 10 MHz reference signal for precise tuning accuracy. Alternatively, an on-board, low noise 10 MHz oven-controlled oscillator (OCXO) can be used as the frequency reference. For custom applications, an external local oscillator signal can also be supplied.

Each tuner is provisioned with one of seven different 400 MHz bandwidth preselector filters covering the RF input range from 800 MHz to 3 GHz. The preselect filters overlap slightly to ensure that there are no gaps in RF spectrum coverage.

An 80 MHz wide IF output is provided at 225 MHz, suitable for A/D conversion using Pentek's high-performance signal acquisition products.

Low noise figure amplifiers and two programmable attenuators accommodate RF input signals from -60 dBm to -20 dBm, and deliver a nominal IF output level of 0 dBm. Higher-level signals can be attenuated prior to input.

The Model 8111 modules are designed to be used as stand-alone or integrated on carrier modules in a 3U VPX size or larger. The module features a MicroUSB port for programming, a Micro-D connector for power and SMA connectors for signals, all in

a high-performance, shielded enclosure. Future modules from Pentek will be available on a range of popular open standard form factors.

The Model 8111 starts at less than $5,000. Delivery is 10-12 weeks ARO. Pricing varies depending on the pre-select filter option.

Pentek
www.pentek.com [1]
201-818-5900

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Links:
[1] http://www.pentek.com