Razor 16-Bit 100 MHz Bandwidth RF Signal Recording Systems

The Razor series of 16-bit RF signal recording systems are complete with integrated receivers, digitizers, computer, storage, and programming-free spectrum analyzer software. These turn-key solutions provide customers with a very powerful and flexible signal recording system, while minimizing the risks of self-integrated systems.

GaGe wideband receivers feature up to 3 software selectable IF bandwidths, from 10 MHz to 100 MHz. The RF signal tuning covers 50 MHz to 27 GHz to provide unparalleled real-time signal recording and analysis capability ideally suited for use with the Razor digitizer's 16-bit resolution and 200 MS/s sample rate.

The 4 channel Razor Express models can support 2 receivers in baseband mode (IQ outputs) or 4 receivers in superhet mode (IF outputs). 10 MHz reference inputs and outputs on both the digitizers and receivers provide a single frequency reference for synchronized system performance.

The spectrum analyzer software, SpectraScopeRT, requires no programming and allows for control of receiver center frequency, bandwidth, and signal recordings. SpectraScopeRT features real-time FFT power spectrums (with peak hold and persistence), spectrograms, histograms, and time domain displays while recording, and upon recording playback.

SpectraScopeRT also supports dual receiver, double bandwidth operation for both real-time display and gap-free recording. This allows 2 downconverters feeding a single digitizer to display and record parallel side by side bandwidths, effectively doubling the available bandwidth, up to 200 MHz.

The digitizers and receivers have full control and data acquisition support via Mathworks MATLAB, with example programs furnished to facilitate rapid signal processing and modulation analysis program development. Additional SDKs and example programs are provided for C/C# and LabVIEW.

Starting at $52,345 Includes: Receiver, Digitizer, Software, Portable Signal Recorder	**Starting at $74,140** Includes: 2 Receivers, Digitizer, Software, 1U Signal Recorder	**Starting at $98,190** Includes: 4 Receivers, 2 Digitizers, Software, 1U Signal Recorder	**Starting at $108,640** Includes: 2 Receivers, Digitizer, Software, 4U Signal Recorder
1 RF Input up to 27 GHz	2 RF Inputs up to 27 GHz	4 RF Inputs up to 27 GHz	2 RF Inputs up to 27 GHz
Up to 21 Channel Pre-Selector & Pre-Amplifier	Up to 21 Channel Pre-Selector & Pre-Amplifier	Up to 21 Channel Pre-Selector & Pre-Amplifier	Up to 21 Channel Pre-Selector & Pre-Amplifier
Receiver Bandwidths: • 100 MHz at 0 Hz IF • 40 MHz at 35 MHz IF • 10 MHz at 35 MHz IF	Receiver Bandwidths: • 100 MHz at 0 Hz IF • 40 MHz at 35 MHz IF • 10 MHz at 35 MHz IF	Receiver Bandwidths: • 100 MHz at 0 Hz IF • 40 MHz at 35 MHz IF • 10 MHz at 35 MHz IF	Receiver Bandwidths: • 100 MHz at 0 Hz IF • 40 MHz at 35 MHz IF • 10 MHz at 35 MHz IF
1 Digitizer: • 16-Bit A/D • 2 Channels • Up to 200 MS/s per CH • 125 MHz CH Input BW	1 Digitizer: • 16-Bit A/D • 4 Channels • Up to 200 MS/s per CH • 125 MHz CH Input BW	2 Digitizers: • 16-Bit A/D • 8 Channels • Up to 200 MS/s per CH • 125 MHz CH Input BW	1 Digitizer: • 16-Bit A/D • 4 Channels • Up to 200 MS/s per CH • 125 MHz CH Input BW
Portable Signal Recorder: • Up to 25 TB SSD Storage • Up to 8-Core Xeon CPU • Up to 256 GB RAM	1U Signal Recorder: • 18 TB SSD Storage • Up to 2 x 22-Core Xeon CPUs • Up to 512 GB RAM	1U Signal Recorder: • 18 TB SSD Storage • Up to 2 x 22-Core Xeon CPUs • Up to 512 GB RAM	4U Signal Recorder: • Up to 76 TB SSD Storage • Up to 2 x 22-Core Xeon CPUs • Up to 512 GB RAM

Additional options and configurations are available. Rackmount systems are shown above with optional shock rack transport case and optional 1U rack display.

GaGe is a product brand of DynamicSignals LLC, an ISO 9001:2008 Certified Company
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