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## Real-Time Filter Design using SignalWizard

### SignalWizard 2.5 Kit

The main product is the SignalWizard 2.5 Kit, which includes hardware and software providing a unique, integrated system for designing, downloading and running very high performance filters in real-time. It includes the high-level PC-based software interface that designs the filter according to the user's requirements, a hardware module based on an advanced digital signal processor and a low-level firmware operating system that implements the filtering operations.



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### SignalWizard 2.5 Hardware Module Kit

The SignalWizard Hardware Module Kit connects to a PC via a standard serial (RS232) link. Essentially, the module comprises signal pre- and post-conditioning circuitry, a high-resolution stereo codec, a high-speed DSP device, memory, timing and control sub-systems. The 24-bit over-sampling stereo codec system is configurable by the user to any one of twelve sample rates, ranging from 48 kHz down to 4 kHz. In terms of input signal frequency ranges, this equates to 24 kHz down to 2 kHz. The codec accepts or generates a 2 V peak-to-peak signal. The power of the hardware module depends on its own operating system, which is invisible to the user, but communicates with the PC software.



[More Information](#) ▶

SignalWizard was originally conceived in the UK and the intellectual property rights reside with Professor Patrick Gaydecki, The University of Manchester, Manchester, M60 1QD, United Kingdom. Tel: +44(0)161 306 4906. [www.signalwizardsystems.com](http://www.signalwizardsystems.com).

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