

## Real-Time Filter Design using SignalWizard

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- SignalWizard 2.5 Hardware Module Kit
- SignalWizard 2.5 PC Software

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### New European Distribution Agreement for SignalWizard

January 2007, Northwich, Cheshire, Kane Computing having recently signed an exclusive distribution agreement with EZFIR to sell the SignalWizard family of real-time filter design products in Europe.

View the [Press Release](#)

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### 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.

View [SignalWizard](#) for further information.

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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.

View [SignalWizard](#) for further information.

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### SignalWizard 2.5 PC Software



The PC software package can be used for designing filters according to the users specifications. The filter is expressed as a set of FIR coefficients or taps, IIR coefficients or as an adaptive expression. Collectively, the coefficients of a filter are known as the impulse response.

View [SignalWizard](#) for further information.

SignalWizard has been widely used in the USA prior to its launch in Europe by Kane Computing Ltd (KCL). It 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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