



## A new Multi Channel MRI Console

- Drive your next MR research project or industrial application with Kahu, our new Multi Channel MRI Console
- Integrated Gradient & Shim controllers
- Base configuration includes 4 Receive channels, can be expanded to 16 Receive channels (*coming later in 2025*)
- Create workflows your way with our powerful Python Notebook based development environment

Contact us now for more information or a quote

Email: [info@resonint.com](mailto:info@resonint.com)

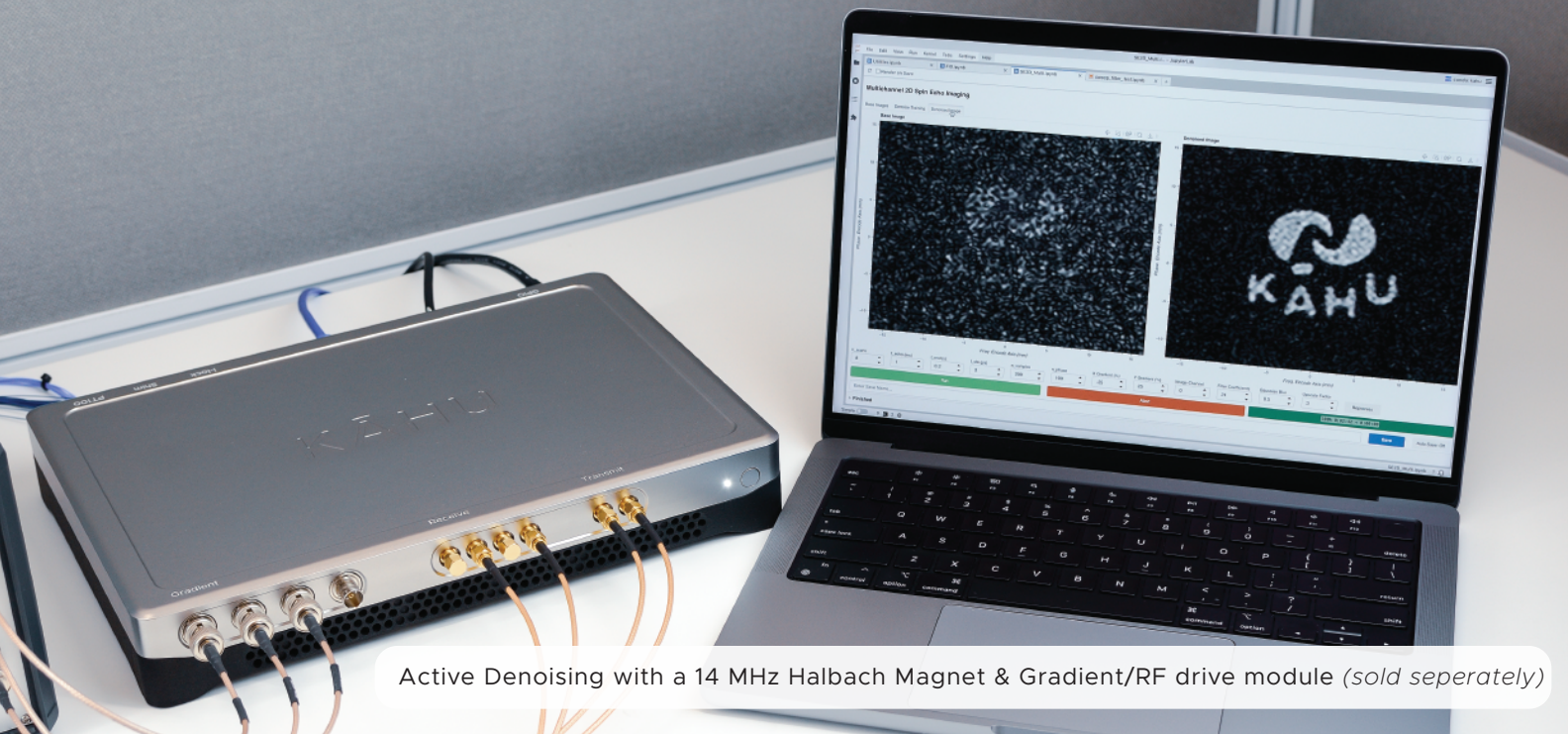
Phone: +64 20 4158 7837

Resonint Limited - [www.resonint.com](http://www.resonint.com)

32 Salamanca Road - Wellington, New Zealand







## Embedded Platform

- Main Processor: *Quad-core ARM Cortex-A53*
- Real Time Pulse Sequencer: *500MHz Dual-core Arm*
- Operating System: *Linux*
- Memory: *4 GB 64-bit DDR4*
- Ethernet: *2x 1 Gbit Ethernet*
- Real Time Clock

## RF

- Frequency Range: *100 kHz - 140 MHz*
- Transmit: *2x 16-bit DACs @ 400 MSPS*
- Recieve: *4x 16-bit ADCs @ 100 MSPS*
- Digital Recieve Processor: *FPGA based, 32-bit quadrature*
- Raw ADC acquisition & flat filtering

## Software

- Interface: *JupyterLab Environment with GUI Experiments and Python Notebooks*
- Python Notebooks: *Customize experiment methods, data processing, & visualization*
- Pulse Programs: *Python-based pulse sequence programming*
- API: *Run experiments & acquire data programmatically*

## I/O

- Fast Digital IO: *16 channels pulse program controlled*
- Slow Digital IO: *16 channels API controlled*
- Gradient Controllers: *4x 16-bit 100 kSPS*
- Shim Controllers: *16x 14-bit 50 kSPS*
- Temperature Sensor: *2x 24-bit PT100 Inputs*
- Optical Transciever: *SFP+*

## General

- Power Supply: *24 V DC Input*
- Pricing: *USD \$15,000 for base configuration*
- Dimensions: *300 x 200 x 60 mm*
- Weight: *1.8 Kg*

