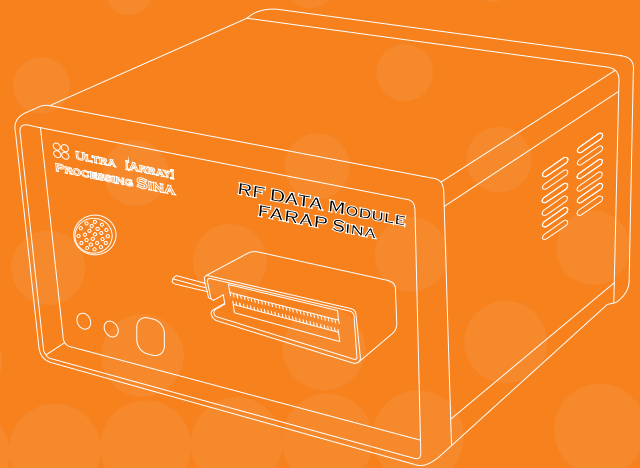


RFARAP

RF Data Device

UltraArray Processing SINA



About us

The research activity of this company has been started from year 2014 (from the time of initiating the technologic core of the company) with focus on biomedical array signal processing and recording (EEG), ultrasound array signal processing and image reconstruction (Micro-ultrasound), transcranial focused ultrasound brain stimulation (tFUS), and multimedia array signal recording and broadcasting fields.

Up to now, this company, has been successful on developing of experimental prototypes, semi-industrial and industrial versions of above mentioned systems to be employed at research laboratories and the R&D department of the company is continuously working on promoting the developed products to be presented soon.



Specification

RFarap is a low-cost portable ultrasound research system with direct software access to raw RF signals (ie. channel data). The system consists of an ultrasound front-end module with a USB3 interface. Fully programmable transmit, receive and processing functions predispose the system to research and educational applications.

System Specifications

Imaging Modes:

- 8/16RX and 8/16TX channels, ultrasound probes up to 128 element (linear)
- TX: 3 level pulsers up to 20 MHz frequency with programmable amplitude up to 120 Vpp, time delay resolution to 0.78 ns
- RX: sampling rate up to 40 MHz @ 12-bit
- A high-speed Thunderbolt USB3 enables real-time streaming of raw RF data to PC
- Standard B-Mode

System Electronics:

- Analog Frequency Range: 1-10 MHz
- Receive Channels: 8
- Single, adjustable transmit focal zone
- Max frame rate: 120 frames/second

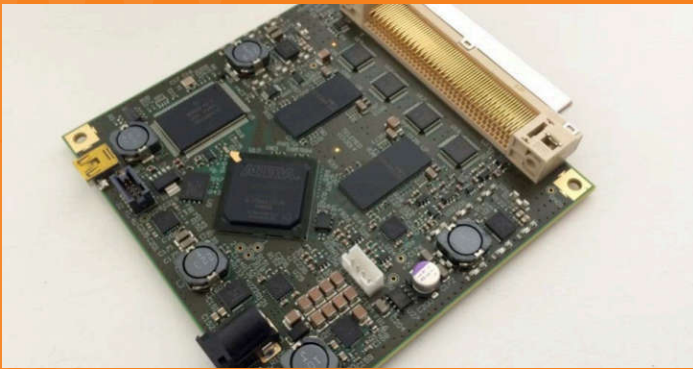
Data Management:

- Data Export: avi, tiff, bmp, gif, raw, csv, DICOM

TRANSDUCERS

One Broadband linear array transducer (up to 10 MHz) that allows for routine scanning of small animals at frame rates up to 120 frames/second, resolutions down to 200 microns,

PICTURES





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