- Advanced research platform enabled by an extremely flexible software architecture
- Designed for researchers to advance the clinical utility of ultrasound

Flexible control of the complete ultrasound signal path in an open architecture

- Pre-beamforming single data access A/D
- Phase aberration estimation
**Pre/Post Beamformer R/F access**

- Realtime RF acquisition
- RF cineloops acquisition
- Realtime RF processing

**Pre-processing**

- Full control
- Realtime data access and processing capabilities
- Custom filtering, envelope
- Detection, compression

**Post-processing**

- Multiple choices of post-processing algorithm
- Realtime implementation of new algorithms
- Advanced post-processing technologies

**Client Applications**

- Visual C++ environment
- Realtime data access, Frame synchronization
- Separate application, full control
Transducer Prototyping

- Specialized setup utility software
- Probe parameter setup, which include # elements, pitch, radius, frequency, etc
- Smooth integration into imaging software

Summary of RP features

Control and access
- Envelope, I/Q and RF data
- Pre and post beamformer RF data
- Pre and post scan conversion data
- Large DME memory (RF, I/Q, BW, …)
- Imaging parameters
- System operation
- Realtime data access, post processing, display capabilities, synchronization
- Open development platform (VisualStudio, Windows XP)
- Connectivity/synchronization to external peripherals
- Fast integration in OEM-based products or Ultrasonix standard product line.

- Tissue Characterization
- Elastography
- IMT