



NASA Chooses Acqiris Products from Agilent

The National Aeronautics & Space Administration (NASA) has selected Agilent Acqiris digitizers for key data acquisition requirements in advanced propulsion research.

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The Agilent Acqiris system is used to acquire data over 60 channels (each sampling at either 1 or 2 GS/s). As the Agilent Acqiris digitizers feature very long acquisition memories (up to 16 Mpoint) each digitizer can store hundreds of pulses before the memory is filled and the data needs to be transferred.

Compact Design, Low Power Consumption

The complete 60-channel data acquisition system is housed in just 4, 8-slot crates. Each crate is about the size of a shoebox!

Agilent's Acqiris crates and U1063A digitizers provide compact solutions for high-speed multi-channel data acquisition applications.

To maximize noise immunity, the data acquisition system uses fiber optic connections to the main computer (that can be up to 30 meters away).

The fiber optic bridge (PXI to PCI) delivers a sustained transfer rate of 100 Mbytes/sec and a burst rate up to 133 Mbytes/sec.

Complete Channel Synchronization

The AS bus system is a proprietary high bandwidth auto-synchronous bus system that takes care of the distribution of all necessary trigger and clock signals.



Figure 1. Agilent Acqiris U1063A cPCI digitizer card



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Figure 2: Agilent Acqiris compact 60-channel 1 and 2 GS/s digitizer system for advanced propulsion research at NASA

Product specifications and descriptions in this document subject to change without notice.

For more information on the Acqiris product line, sales or services, see our website at:
www.agilent.com/find/acqiris

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