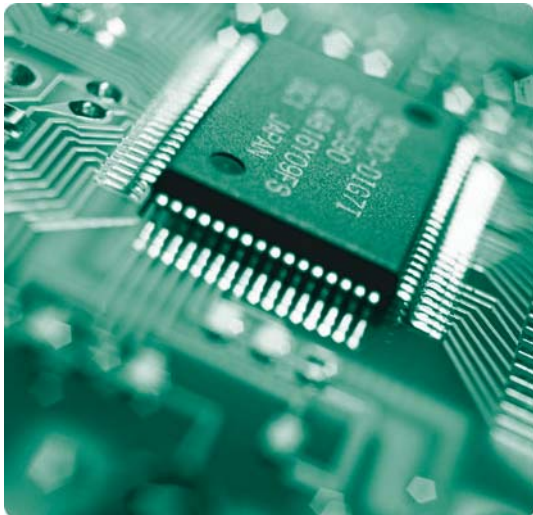




Application Overview

Traditional ATE technology using Equivalent Time Sampling, requires several iterations to perform the waveform analysis needed to achieve the data accuracy required in mixed-signal semiconductor test applications. This method is time consuming and requires stable, repetitive signals. The Agilent "single shot" method characterizes the signals in a single event, significantly reducing the end user's test time and cost.

Applications includes: Mixed-signal semiconductor device testing such as: Power management, battery management, amplifiers, consumer audio, temperature sensors, etc.



Mixed-Signal Semiconductor Testing for End Users and OEM's

Measuring Analog Signals in Video Processing and Operational Amplifier IC's

Solution Description

- U1064A, 8-bit, 1-4 channels, 1-4 GS/s, 1 GHz, 128-512 kpoints/ch, cPCI digitizer.
- U1065A, 10-bit, 1-4 channels, 2-8 GS/s, 2 GHz, 256-1024 kpoints/ch, cPCI digitizer.
- U1066A, 12-bit, 2 channels, 400 MS/s, 300 MHz, 4 M points/ch, cPCI digitizer.
- Complete system includes U1091AC30 chassis and U1091AK02 interface.



Key Features and Added Value

- Fast test times.
- Higher throughput at lower cost.
- Multi-channel capability.
- Cost-effectiveness.
- Scalability.
- Compact size.
- Fast bus transfer speed.
- Low power consumption.

Key Requirements

- The high-speed of waveform analysis achieved by using the U1064A digitizer as compared to traditional ATE systems provides a huge advantage in testing throughput allowing users to minimize capital equipment expenses.

Resources

- U1064A, 8-bit, cPCI digitizer brochure: <http://cp.literature.agilent.com/litweb/pdf/5989-7444EN.pdf>
- U1065A, 10-bit, cPCI digitizer brochure: <http://cp.literature.agilent.com/litweb/pdf/5989-7443EN.pdf>
- U1066A, 12-bit, cPCI digitizer brochure: <http://cp.literature.agilent.com/litweb/pdf/5989-7115EN.pdf>
- Data Converter product selection guide: <http://cp.literature.agilent.com/litweb/pdf/5989-8038EN.pdf>
- Digitizers website: www.agilent.com/find/embedded-digitizers

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