Modular Functional Test System Offers Unsurpassed Coverage, Speed for Automotive Electronics

Agilent Technologies Inc. introduces the Agilent TS-8900 Automotive Functional Test System - an off-the-shelf, standardized PXI-based solution that offers unsurpassed test coverage and speed for use in automotive electronics test applications. It is especially suited for testing medium- to high-pin-count electronic control units.

Setting a new benchmark in versatility, the TS-8900 provides up to 20 percent better throughput compared with earlier Agilent automotive functional test solutions. Using the TS-8900â€™s simultaneous measurement channel capabilities, manufacturers will be able to employ new test methodologies to improve test coverage, including, for example, untested pin monitoring for random spikes that can signify defects in the control unit.

At the heart of the system is Agilentâ€™s new 32-channel M9216A high-voltage data acquisition module. This PXI module is capable of acquiring dynamic voltage levels ranging from 1 mV to 100 V at 250kSa/s per channel simultaneously, making it one of the most powerful high-voltage data acquisition solutions currently available for the automotive industry.

The TS-8900 test system, along with two other automotive-focused PXI modules: the M9186A voltage-current source and M9185A digital/analog converter addresses

customer challenges by providing direct connectivity to electronic control units without the need for external front-end signal conditioning circuitry.

Designed for ease of use, the TS-8900 comes with a suite of more than 200 built-in applications-tuned test libraries. The robust system is built to provide stable and repeatable tests, making it easy for manufacturers to deploy the same tests across different sites around the world. Leveraging new test technologies, the TS-8900 comes with less equipment and circuitry, making it easier and less expensive to maintain.

The TS-8900 will begin shipping May 31. Prices for this customizable system start at $60,000. The TS-8900 will be unveiled at the IPC APEX 2011 tradeshow at the Mandalay Bay Resort & Convention Center (Booth 1473) in Las Vegas.

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