Analogue/Mixed-Signal foundry extends customised IC test service

ECN Europe

The Full Service Foundry business unit of AMS [1] today announced an extension of its dedicated test solutions for its customers. This move is an extension of the company's "More Than Silicon" initiative, under which AMS provides a package of intellectual property, cell libraries, consultancy and testing services to help customers successfully develop advanced analogue and mixed-signal circuit designs based on its specialty technologies.

Foundry customers using AMS' IC test solution service will receive KGD (known good die) and gain the benefit of zero yield risk, as their complex analogue/mixed-signal ICs are 100% electrically tested according to their own test specification. The electrical test can be performed at the wafer level (i.e. wafer probing), on assembled parts (also including advanced packages such as wafer level chip scale packages, or WLCSP) or at both levels.

The offering starts with an in-depth design for testability (DFT) analysis carried out jointly with highly experienced design support engineers from AMS. Test program code development can be accomplished quickly using AMS' production-proven test code library and offline tester simulator debugging. An independent and dedicated professional test team with a combined 25+ years of experience offers remote debug sessions to shorten debug and development cycle time. As an integral part of its EEPROM IP portfolio AMS also offers a programming service, so there is no need to program the EEPROM block after delivery of the die.

The test program release procedure comprises careful correlation between the test results from production tests and application bench tests, full temperature qualification and statistical analysis of the test solution through the implementation of gauge repeatability and reproducibility tests.

"Many customers prefer turnkey solutions and want to receive fully tested parts. With dedicated test solutions as part of AMS "More Than Silicon" initiative, foundry customers benefit from delivery of 100% electrically tested parts," says Thomas Riener, Senior Vice President and General Manager of AMS' Full Service Foundry business unit. "Our dedicated test offering has a proven track record and is a result of AMS' continuous efforts to deliver best-in-class service to our customers. The goal of our experienced engineering team is to ensure the shortest possible time to market for our customers' complex analogue/mixed-signal products."

AMS' dedicated test service is supported by an integrated project management process including weekly test status updates. Once volume production has started, test data are automatically uploaded to the customer's FTP site.

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http://www.ecnmag.com/news/2012/06/analogue/mixed-signal-foundry-extends-customised-ic-test-service?qt-video_of_the_day=0

Links:
[1] http://www.ams.com