



**Providing Innovative Solutions For The Magnetic Recording Industry**

#### **AVALANCHE TECHNOLOGY INC. AND INTEGRAL SOLUTIONS INTERNATIONAL PARTNER TO DEVELOP WAFER LEVEL ANALYZER FOR NEXT GENERATION MAGNETIC MEMORIES**

SANTA CLARA, CA and FREMONT, CA – July 08, 2009: Demonstrating industry leadership in advanced memory technologies, Integral Solutions International (ISI) and Avalanche Technology, Inc. have designed a Wafer Level Analyzer, the WLA-3000, to be used in the development of Spin Transfer Torque MRAM (STT-MRAM) a low power high speed non-volatile magnetic memory which is the leading technology candidate to replace aging charge based memories such as NOR, NAND and DRAM.

A major advancement in the characterization of magnetic memories, ISI and Avalanche co-developed specific hardware test modules including nS-range Pulse Generator to quickly measure switching currents of STT-MRAM Magnetic Tunnel Junction (MTJ) devices as a function of Pulse Width. Using this Pulse Generator module, customers will be able to perform Error Rate, Switching Probability, Endurance Testing, and Read/Write Disturb analysis in a fraction of time as compared to other slower pulsers.

The WLA-3000 system is fully compatible with ISI's FMRA-2008 Ferromagnetic Resonance Analyzer to offer the worlds most advanced and complete MTJ sensor analysis.

Henry Patland, President and CEO of Integral Solutions International said, "We are very pleased that through close working relationship between ISI and Avalanche Technology Inc., we were able to understand STT-MRAM industry needs and come up with a comprehensive solution in a very short period of time".

Dr. Rajiv Ranjan, Chief Technology Officer of Avalanche Technology Inc., said "ISI has proven to be a valuable partner in our efforts to accurately and quickly analyze our cutting edge nano-engineered memories. They share our vision of the enormous market potential of magnetic memory and developed a tool to meet the needs of industry pioneers such as Avalanche."

#### **About ISI**

Integral Solutions International (referred to as ISI) is a privately held California based US Corporation. ISI was established in September 1995 and is the leading manufacturer of Quasi-Static testers for GMR, TMR and Perpendicular Heads as well as Automated Sorting/Inspection tools.

#### **About Avalanche**

Avalanche Technology, Inc. is a privately held innovator of next generation magnetic memories. The company's Spin Programmable Memory (SPMEM) an advanced variant of STT-MRAM, will fundamentally revolutionize memory's role in a system and will deliver order of magnitude improvements in power consumption, performance and endurance in devices such as solid-state drives.

Send mail to [webmaster@us-isi.com](mailto:webmaster@us-isi.com) with questions or comments about this web site.

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