



PRESS RELEASE

IME and Maradin to Develop Innovative Chip for High Resolution Displays of Portable Devices

Singapore, 31 July 2009 - The Institute of Microelectronics (IME), a research institute of the Agency for Science, Technology and Research (A*STAR), and Maradin Technologies Ltd (MT), an innovative display projection start-up company, today announced their collaboration to develop an innovative application-specific integrated circuits (ASIC) chip for next generation high resolution displays of portable devices.

The aim of the collaboration is to develop an innovative ASIC chip for Maradin's revolutionary projection chip using Micro-Electro-Mechanical Systems (MEMS) technology for next generation high resolution displays of portable devices. IME will drive the ASIC chip development with several innovative features to manipulate the cutting-edge MEMS scanning micro-mirrors to achieve a Super Video Graphics Array (SVGA) resolution with both interlaced and progressive scanning regimes. These novel features together with breakthrough micro-mirror design can eliminate inherent scanning distortions and utilize high optical efficient solution of laser projection for overall system power efficiency.

Maradin brings a new paradigm for projection chip architecture allowing improvement of display quality and reduction of size and cost while maintaining minimum possible power consumption. Maradin's approach promises better image quality at lower cost than other state-of-the-art projection technologies.

"IME has been developing low power signal conditioning devices for MEMS Sensors for more than a decade. We have developed ASICs for various inertial and biomedical MEMS Sensors with internal or industry driven programmes. Our Ultra-low Power RF, Analog, Mixed Signal design, and MEMS design and fabrication capabilities present a compelling value proposition for enabling our industry partners in their product innovations and development. I'm very glad that Maradin has chosen to collaborate with IME," said Professor Dim-Lee Kwong, Executive Director of IME.

"As Maradin solution requires cutting edge performances both in the MEMS and ASIC technologies, we see IME as a perfect partner for the development of our product. IME experience in ASIC driven MEMS, along with its openness to new concepts and technologies, allow us to rapid our product development along with enabling novel solutions for implementation of the upcoming product," said Mr. Matan Naftali, CEO of Maradin.

About Institute of Microelectronics

The Institute of Microelectronics (IME) is a research institute of the Science and Engineering Research Council of the Agency for Science, Technology and Research (A*STAR). Positioned to bridge the R&D between academia and industry, IME's mission is to add value to Singapore's semiconductor industry by developing strategic competencies, innovative technologies and intellectual property; enabling enterprises to be technologically competitive; and cultivating a technology talent pool to inject new knowledge to the industry. Its key research areas are in integrated circuits design, advanced packaging, bioelectronics, MEMS, nanoelectronics and photonics. For more information, visit Institute of microelectronics on the Internet: <http://www.ime.a-star.edu.sg>

About Maradin Technologies Ltd

Maradin Technologies Ltd. develops a novel chipset solution, to be the heart of miniature laser projection systems. Maradin objective is to enable our partners with a low power, small size and high quality projection element in order to facilitate them integrating it into variety of end products for the mobile world. Maradin was founded at the beginning of 2007 by veterans of the Israeli semiconductors industry. At its early days, Maradin proved its innovative technology and concept of operation, focusing mainly on the most important component of the product to come – the MEMS micro-mirror. As the technology matured, the development of the product was extended to other components of the product, covering a variety of disciplines such as: driving electronics, control and packaging, and manufacturability. For more information, visit Maradin on the Internet: <http://www.maradin.co.il>

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