



MEDIA RELEASE

A*STAR'S INSTITUTE OF MICROELECTRONICS AND PHYSICAL LOGIC TO EXTEND STRATEGIC RESEARCH PARTNERSHIP IN MEMS SENSOR ACCELEROMETER ASIC DESIGN

Singapore, 29 Jan 2013- A*STAR's Institute of Microelectronics (IME) and Physical Logic Ltd, a wholly-owned subsidiary of Physical Logic AG, have extended their collaboration in micro-electro-mechanical-systems (MEMS) sensor accelerometer research and development. An accelerometer is a miniaturized Micro-Electro-Mechanical System, which can detect and measure acceleration, tilt and vibrations.

Continuing this partnership will allow Physical Logic to leverage IME's application-specific-integrated circuit (ASIC) design expertise to develop an enhanced MEMS sensor accelerometer with improvement in bandwidth, stability, linearity and resolution, and reduction in power consumption. The accelerometer can be used in medical, transport and consumer electronics applications.

This collaboration builds on the strategic relationship that commenced in 2006, in which Physical Logic was able to tap on IME's suite of diverse capabilities in the areas of bioelectronics, nanoelectronics, photonics and MEMS to successfully develop sensor systems for various applications. Both parties had successfully developed a uniquely structured MEMS 3-D accelerometer, which could be used in cardiac devices designed for the human heart.

"The continuation of our joint effort is an excellent proof of the added value of our technology and expertise to our industry partner. This collaboration opens the door to expand our silicon MEMS design capabilities to broader fields," says Prof. Dim-Lee Kwong, Executive Director of IME. "I am pleased that we have deep MEMS capabilities to support Physical Logic to be at the forefront of innovation."

"IME has continually demonstrated exceptional expertise in support of our business. We are very pleased to continue our collaboration with IME to develop our next-generation of products," commented David Nuttman, Chief Executive Officer of Physical Logic. "This strategic collaboration with IME affirms our commitment to continue to employ leading technologies in our business."

About Institute of Microelectronics (IME)

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 and medical devices, MEMS, nanoelectronics, and photonics. For more information, visit IME on the Internet: <http://www.ime.a-star.edu.sg>.

About Agency for Science, Technology and Research (A*STAR)

The Agency for Science, Technology and Research (A*STAR) is the lead agency for fostering world-class scientific research and talent for a vibrant knowledge-based and innovation-driven Singapore. A*STAR oversees 14 biomedical sciences, and physical sciences and engineering research institutes, and seven consortia & centre, which are located in Biopolis and Fusionopolis, as well as their immediate vicinity. A*STAR supports Singapore's key economic clusters by providing intellectual, human and industrial capital to its partners in industry. It also supports extramural research in the universities, hospitals, research centres, and with other local and international partners.

About Physical Logic Ltd.

Physical logic is a fabless semiconductor company, founded in 2004, developing and producing cutting edge MEMS based inertial sensing technologies and products, wholly owned and privately funded by Physical Logic AG, a privately-held Swiss company. The company develops, manufactures and sells high performance MEMS (Micro-Electro-Mechanical-Systems) based accelerometer sensors for motion, acceleration, position, geolocation, vibration and tilt for the industrial, energy, security, and healthcare markets – all seeking accurate sensing solutions, tapping into a worldwide market of \$550m in 2013 for high performance accelerometers.

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