MegaChips

NEWS RELEASE

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MEMBERSHIP

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Name of the Company: MegaChips Corporation

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(Code No. 6875, First Section of the Tokyo Stock Exchange)

Notice Concerning Joint Development of Ultra-low Power Short Range Radio Communications for IoT in Conjunction with IMEC

Megachips Corporation ("Megachips," hereafter) has concluded a strategic partnership for research and development into ultra-low power short range radio for Internet of Things (IoT) applications with Interuniversity Microelectronics Centre (IMEC), a nano-electronics research center. The details are as follows.

Megachips aims to continually expand its business and enhance its corporate value over the medium-to-long term, and to develop operations aimed at IoT, a field that promises future growth and includes mobile and wearable technologies, we have actively sought to upgrade our lineup of ASSP products for the field. As a part of such efforts, Megachips has formed a strategic partnership for research and development into ultra-low power (ULP) short range radio technologies with IMEC, which possesses the world's most cutting-edge RF technologies.

<Background of Development>

IoT, which involves embedding compact sensor devices into cars, people and everything in the home and connecting them to the Internet, is expected to undergo rapid and widespread adoption in the future.

By the year 2020, it is predicted that each person will use several hundreds of sensors and that around 50 billion sensor devices will be used around the world.

Moreover, in terms of industrial applications, the creation of maintenance-free equipment for transmitting various information is needed to enable smart factories, smart grids and smart buildings.

In efforts to create IoT-based societies such as these, ultra-low power wireless transmission technologies will be in high demand.

<Major Features of Development>

The ultra-low power multi-standard sub-GHz radio solution jointly developed by Megachips reduces power consumption to less than a half during transmission and down to a tenth during reception compared with an existing Sub-GHz wireless LSI and also achieves superior receiving sensitivity. This will enable greater transmission distances and more reliable communications than before, even under conditions with poor line of sight, such as large-scale industrial areas and buildings.

Megachips regards this research and development as one of its key projects, and will strive to offer solutions that lead the IoT market by integrating its sensor HUB technologies and MEMS technologies with IMEC's advanced RF technologies.

As a global company that creates new applications and is continually offering system solutions, Megachips will continue strike a balance between growth through new strategies and high revenue as it strives to achieve sustainable growth in corporate value.

■ About imec :

Imec performs world-leading research in nanoelectronics and photovoltaics. Imec leverages its scientific knowledge with the innovative power of its global partnerships in ICT, healthcare and energy. Imec delivers industry-relevant technology solutions. In a unique high-tech environment, its international top talent is committed to providing the building blocks for a better life in a sustainable society. Imec is headquartered in Leuven, Belgium, and has offices in the Netherlands, Taiwan, US, China, India and Japan. Its staff of over 2,080 people includes more than 670 industrial residents and guest researchers. In 2013, imec's revenue (P&L) totaled 332 million euro. Further information on imec can be found at www.imec.be. Stay up to date about what's happening at imec with the monthly imec magazine, available for tablets and smartphones (as an app for iOS and Android), or via the website www.imec.be/imecmagazine

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■ Descriptions of terms :

・IoT (Internet of Things) :
Uniquely identifiable objects are accessed through the Internet/Cloud, conduct mutual control by information exchange. and mutually control.

・MEMS（Micro-Electro-Mechanical Systems） :
Micro-electromechanical system using microfabriacation technology. This is used for sensor, motor, display and others in addition to the timing device.