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Murata Selects GainSpan Ultra Low Power Wi-Fi Chipset for New Wi-Fi Module

Fully integrated module ideal for wireless sensor applications

San Jose, CA — July 13, 2011 — [GainSpan](#)® Corporation, a leading developer of ultra low power [embedded Wi-Fi solutions](#), announced that Murata Manufacturing Co., Ltd., the world-leading innovator in electronics and the largest global module supplier, has adopted GainSpan's GS1011 system-on-chip to build an "All-in-One" Wi-Fi module for sensor applications. The advanced module is one of the lowest power consuming of its kind, featuring a trace antenna and offering manufacturers a compact solution and fast time to market for sensor network devices.

Murata's ["Complete W-LAN \(Type SN\)" module](#) is an IP based solution that integrates all components necessary for WLAN in a small 21.4 x 31 mm package. The Complete W-LAN is used to connect a large variety of sensors with Wi-Fi, by using the many analog and digital interfaces available on the [GS1011 chip](#). In addition, this module makes it possible to very easily add—through a serial interface and simple AT commands-- [Wi-Fi connectivity](#) to devices, using the serial to Wi-Fi software. By leveraging GainSpan's low-power consumption and advanced power management technology, the Complete W-LAN is able to operate for years on a single AA battery.

"GainSpan's low power consumption chip, highly integrated and feature rich networking stack has allowed us to create a Wi-Fi module that allows our customers to add Wi-Fi capability to their designs quickly and easily," said Mitsuhiro Hoshii, Manager Product Engineering, Communication Module Division, Murata Manufacturing. "GainSpan's solution provided an excellent foundation for the development of our Wi-Fi module that achieves connectivity in a simple compact system. The module is now finding its way into many sensor devices and other embedded applications using 8- or 16-bit microcontrollers with limited resources, and in which Wi-Fi has thus far been difficult to implement."

"Murata is the largest supplier of Wi-Fi and Bluetooth modules worldwide, has an impressive range of sensors that can detect heat, infrared, vibration, acceleration, rotation, position, magnetism and electrical fields and is continuing to develop new innovative sensing technologies," said Bernard Aboussouan, VP Marketing at GainSpan. "We are very proud that they have selected our [low power Wi-Fi chip](#), as they provide the capability to combine their



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advanced module and sensing technologies to bring innovative solutions to some of our key market segments, such as Healthcare and Smart Energy.”

About GainSpan

GainSpan is a leading ultra-low power embedded Wi-Fi semiconductor solutions company focused on connecting Things to the Internet, and People to Things. With easy to use system-on-chip (SoC), modules and software, GainSpan enables customers to leverage the large installed base of Wi-Fi access points and smartphones to create new connected embedded products for healthcare, smart energy and control and monitoring in industrial, commercial and residential markets. GainSpan solutions feature an ultra-low power SoC that consumes just a few μA of standby current and goes from standby to active mode in just a few ms, ideal for battery operated devices requiring long battery life. The Wi-Fi chip also handles all Wi-Fi functionalities, networking and security stacks, offloading when required the host microcontroller and accelerating wireless device development cycles. GainSpan is based in San Jose, CA, with R&D in Bangalore, India. www.gainspan.com.

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About Murata Manufacturing Company Ltd.

Established in 1944, Murata Manufacturing, with global headquarters in Kyoto, Japan, is a worldwide leader in the design, manufacture and sale of ceramic based passive electronic components and power supply modules. With annual revenues in excess of \$6 billion dollars, Murata is committed to the environmentally conscious development and stable supply of advanced electronic materials, leading edge electronic components, and multi-functional, high-density modules. Products include: ceramic and polymer aluminum electrolytic capacitors, noise suppression products/EMI suppression filters, inductors, resistor products, resonators, filters, RF components, communication and wireless module solutions, sensors, thermistors, power supplies, sound components, piezo actuators, micromechatronics products, ceramic applied products, and RFID devices. Murata's products are found in a wide range of applications including consumer, mobile communications, computers and networking equipment, automotive electronics, advanced metering equipment, digital home electronics, lighting and illumination, and lifestyle healthcare devices. The company has employees and manufacturing around the world. www.murata.com.



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