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Advantech Announces Partnership with Linear Technology for Smart City and IoT Solutions

May 19th, 2014, Munich – Global Intelligent Systems leader Advantech (2395.TW) today announced that it is partnering with Linear Technology’s Dust Networks product group to develop Smart City and Internet of Things (IoT) solutions based on Dust’s SmartMesh IP™ embedded wireless sensor networks (WSN). Advantech will develop, manufacture, and sell a variety of IoT gateways, wireless sensors, and solutions that incorporate Linear’s industry-leading SmartMesh IP embedded WSN products as well as complementary power management and Power over Ethernet (PoE) ICs.

Advantech has declared 2014 as its first year for actual Smart City applications; it is time to push beyond the planning stage and into implementation. Today’s embedded devices have the ability to communicate, transforming simple dedicated devices into “interconnected Smart Devices” in the IoT era, where wireless connectivity is everywhere. In response to this trend, Advantech provides wireless IoT solutions and module integration services that minimize workloads for system integrators.

The Internet of Things is growing rapidly, and wireless sensor networks (WSNs) are essential for extending the reach of the Internet infrastructure to all kinds of devices. WSNs are already in use in critical monitoring and control applications worldwide. Linear Technology’s broad line of WSN products and high performance analog and power integrated circuits are enabling products for industrial networks and the IoT. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs, µModule subsystems, and Dust Network’s SmartMesh wireless sensor network products.

Miller Chang, Vice President of Advantech Embedded Computing Group, stated, “Though intelligent industry opportunities are huge, the market is still evolving. Customers are motivated to acquire robust and complete embedded IoT solutions for implementing complex remote communications, and for connecting devices to develop monitoring and remote control applications. In order to bridge the gap, Advantech has established a new product division called Embedded IoT Solutions. This division will focus on providing ready-to-use embedded IoT

solutions by integrating Advantech's current embedded platforms, wireless modules, and remote control software, doing so in collaboration with our ecosystem partners. By partnering with Linear Technology's Dust Networks, Advantech will deliver an additional series of WSN solutions that further enable IoT applications."

Joy Weiss, President of the Dust Networks product group at Linear Technology said, "This collaboration between Linear Technology and Advantech will accelerate the availability of a compelling suite of reliable, low-power, wireless sensor network solutions. This will enable companies to quickly bring innovative IoT applications to market without having to develop their own hardware. Advantech's outstanding reputation for quality and its strong global sales, marketing, and support will be a strong catalyst for IoT application developers worldwide."

WSN Mote



EWS-1540A-S01E

- Self-forming and self-healing mesh network
- Interference robust by time synchronization and transmission frequency hopping design
- Network-wide reliability and power optimization
- AES-128 bit encryption with NIST certified security
- Compliant to 6LoWPAN Internet Protocol (IP) and IEEE 802.15.4e Standard

Integrating Advantech RISC computing design power with Linear Technology's Dust Networks WSN technology, Advantech Embedded Core Group will announce the release of a WSN controller— [UBC-WN500](#), and sensor mote products—[EWS-1540A](#) and UBC-WNM200, in Q3, 2014. Meanwhile, Advantech will include the SUSIAccess remote management software tool for IoT in the WSN series; this will enable customers to implement environmental monitoring, urban security, and smart street solutions easily and quickly. Advantech and Linear Technology are working together to achieve the ultimate goal of enabling an intelligent planet.

WSN Controller



UBC-WN500

- Freescale® i.MX Dual ARM® Cortex™-A9 1.0GHz
- Compliant to 6LoWPAN and IEEE 802.15.4e standards
- Supports up to 200 sensor motes
- Power saving mode and fanless design
- SUSIAccess for IoT management software

About Embedded Core Service

Advantech Embedded Core Services offers design-in oriented services. These streamlined solutions broadly integrate embedded boards, peripheral modules and software. This dedicated focus on Embedded Design-in services fulfills electronic engineering demands at their design-in phase, and brings benefits that shorten the design and integration cycles, minimizing uncertainty and risk. www.advantech.eu/EmbCore

About Advantech

Founded in 1983, Advantech is a leader in providing trusted, innovative products, services, and solutions. Advantech offers comprehensive system integration, hardware, software, customer-

centric design services, embedded systems, automation products, and global logistics support. We cooperate closely with our partners to help provide complete solutions for a wide array of applications across a diverse range of industries. Our mission is to enable an intelligent planet with Automation and Embedded Computing products and solutions that empower the development of smarter working and living. With Advantech, there is no limit to the applications and innovations our products make possible. (Corporate Website: www.advantech.eu).

About Linear Technology and Dust Networks

Dust Networks, a pioneer in the field of wireless sensor networking, was acquired by Linear Technology in 2011. Defining the way to connect smart devices, Dust Networks delivers reliable, resilient and scalable wireless products with advanced network management and comprehensive security features. Dust Networks is a leader in supplying low power wireless mesh networks for demanding industrial process automation applications. More information at [www.linear.com/products/wireless_sensor_networks - dust networks](http://www.linear.com/products/wireless_sensor_networks_-_dust_networks)

Linear Technology Corporation, a member of the S&P 500, has been designing, manufacturing and marketing a broad line of high performance analog integrated circuits for major companies worldwide for over three decades. The Company's products provide an essential bridge between our analog world and the digital electronics in communications, networking, industrial, automotive, computer, medical, instrumentation, consumer, and military and aerospace systems. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs, μ Module® subsystems, and wireless sensor network products. For more information, visit www.linear.com