



Greenvity introduces scalable IoT system solutions for smart LED lighting and home and building automation

- Greenvity to demo green Internet of Things solutions at Distributech
- Turn-key solutions include HomePlug Green PHY PLC and ZigBee wireless Hybrii SoCs, modules, software and mobile apps

MILPITAS, Calif. – Jan. 13, 2014 – Greenvity Communications is now offering total turn-key solutions comprising system-on-chips (SoC), modules, software and mobile apps that enable any home device or Internet of Things (IoT) device to be smart and controllable for energy-saving and home and building automation purposes. At the core of these solutions are Greenvity's patented Hybrii® SoCs, which integrate HomePlug® Green PHY™ powerline communication (PLC) and ZigBee® wireless for robust and extended-range communication for smart LED lighting, home and building automation, industrial M2M and energy management.

The Greenvity system solutions provide all the functions that customers need for rapid prototype and even pre-production design. Ready-to-go boards and software enable significantly reduced time-to-market and cost of development. OEMs and ODMs have the flexibility to customize and scale up or down the modules and the baseline software to fit specific applications. Customers only need to add their own software layer to quickly develop innovative and differentiating IoT devices.

Greenvity's first IoT solutions focus on controlled LED lighting and home and building automation products such as LED lamps, down lights, high bay lights, LED tubes, street lights, and also thermostats, HVAC, routers and set-top boxes.

Three modules are being introduced including the GV-Controller, GV-LED and GV-Sensor, powered by Greenvity's Hybrii® SoCs, GV7011 and GV7013 chips. Each GV-LED module and GV-Sensor module can communicate with and be controlled by the GV-Controller via either PLC or wireless to form an IoT network that mobile devices can access and control wirelessly and remotely.

- **GV-Controller (Home Gateway & Lighting Controller module)** powered by either GV7011 chip or GV7013 chip, consists of an ARM9 processor with Linux OS and also includes WiFi, Ethernet 10/100, USB, SPI and Bluetooth low energy (BLE). GV-Controller can be integrated inside any home device such as a router or thermostat.

- **GV-LED (LED Driver Module)** powered by either GV7011 chip or GV7013 chip, can interface to most existing LED drivers and power supplies in the industry. It enables controllability to LED lights from on/off and dimming to color temperature adjustment via PLC or ZigBee. The GV-LED module can be deployed inside LED driver and power supply of LED lamp, streetlight and down light, or be placed outside as a retrofit solution.
- **GV-Sensor (Sensor Module)** powered by GV7011 chip or GV7013 chip, is an all-in-one sensor module for motion, light and temperature. It can be deployed inside thermostats, HVAC and light fixtures.

Greenivity Smart Lighting Software suite and mobile apps (supporting iOS and Android) are provided with the modules without a licensing fee and enable monitoring, controllability and intelligence of up to 255 lighting devices and communications with mobile phones and tablets. API is provided so that OEM/ODM customers can add their own application software to differentiate and enhance their products.

“Greenivity’s new turn-key IoT solutions enable OEMs/ODMs to quickly build their products and get into the hands of consumers without compromising performance and reliability,” said Hung Nguyen, CEO of Greenivity. “Our solution for smart LED lighting and home and building automation consists of system-on-chips, modules and software that together will significantly reduce time-to-market and cost of development for our customers.”

Greenivity will be demonstrating the new IoT solutions in booth #801 at [Distributech](#), held Jan. 28-30 in San Antonio, Texas.

Hybrii-XL and Hybrii-Mini SoCs

Greenivity’s hybrid SoC connectivity solutions integrate HomePlug Green PHY powerline and ZigBee wireless capabilities to enable smart grid-connected equipment and energy-saving consumer electronics for a variety of home and building energy management, lighting and smart grid applications.

The award-winning Hybrii-XL (GV7011) SoC for smart grid, smart energy management, industrial and consumer applications is the world’s first SoC that integrates a HomePlug Green PHY PLC transceiver, a 2.4GHz RF transceiver of IEEE802.15.4/ZigBee, a high performance 8-bit microcontroller and various interfaces including Ethernet 10/100 and SPI for plug and play.

The low-cost Hybrii-Mini (GV7013) HomePlug Green PHY PLC integrates AFE, Baseband, MAC, and a high performance 8-bit microcontroller with embedded memories. It offers high performance and robust powerline connectivity with data rates up to 9.8 Mbps and supports several interfaces including SPI, UART, I2C and PWM to directly control a variety of LED power drivers and LED chips.

Availability

The GV-Controller, GV-LED and GV-Sensor modules are available now by contacting Greenvity sales offices. The lighting control and home automation software and the mobile apps are available to OEM/ODM customers free of charge.

For more information, visit: www.greenvity.com.

About Greenvity Communications

Greenvity Communications is a solution provider for the Internet-of-Things (IoT) focused on smart LED lighting, home and building automation, IoT sensors, smart meters and automotive. Greenvity is transforming the IoT market with its innovative and patented hybrid communication technology that integrates standard-based powerline communication (PLC) and wireless for robustness and extended range. Greenvity's mission is to provide customers turn-key solutions from system-on-chips, modules, systems and software to significantly reduce customers' time-to-market and cost of development. With full operations beginning in 2011, Greenvity is a privately held company based in Silicon Valley. www.greenvity.com

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