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New Product Announcement

BeagleBone Blue Now at Mouser: Educational SBC for Robots, Drones, and More

March 14, 2017 – Mouser Electronics, Inc., the New Product Introduction (NPI) leader that empowers innovation, is now stocking the highly anticipated BeagleBone Blue from BeagleBoard.org, a complete robotics controller built around the BeagleBone open hardware single-board computer (SBC). The high-performance BeagleBone Blue combines flexible networking capabilities with a real-time-capable Linux system and easy-to-connect interfaces for building robots, machine control, or even unmanned aerial vehicles (UAVs, or drones).

The BeagleBone Blue, available from Mouser Electronics, provides 4 GBytes of eMMC flash storage, microSD slot, a 3D graphics accelerator and a NEON floating-point. Like the BeagleBone Black Wireless, the BeagleBone Blue is built on the Octavo Systems OSD3358 system-in-package (SiP), which integrates a Texas Instruments (TI) AM3358 1GHz ARM® Cortex®-A8 processor, 512 MBytes of DDR3 SDRAM, and two 32-bit programmable realtime units (PRUs) for fast peripheral control. The Octavo chip also includes a TI TPS65217C power management IC (PMIC), TI TL5209 low dropout (LDO) voltage regulator, and over 140 passive components, which opens up board space for BeagleBone Blue's many connectivity and sensor features.

The BeagleBone Blue features high-speed USB 2.0 host and client and a TI WiLink 8 module, which provides support for 802.11b/g/n, *Bluetooth*® 4.1, and Bluetooth low energy. In addition to two sensors — a 9-axis inertial measurement unit (IMU) and a barometer — the board includes four DC motor drivers and eight server motor outputs, as well as four quadrature encoder inputs for speed and direction measurements. For additional connectivity, the board provides eight general purpose inputs and outputs (GPIOs) and CAN, UART, SPI, and I^2C interfaces.

The BeagleBone Blue is powered via the microUSB port, 9V – 18VDC barrel jack, or a two-cell lithium polymer battery connector with cell balancer. The board ships with Linux and BeagleBoard's Cloud9 integrated development environment (IDE) on the eMMC, and also supports Debian and other distributions of Linux; Ardupilot platform for UAVs; and ROS operating system for robots.

To learn more, visit http://www.mouser.com/new/beagleboardorg/beaglebone-blue/.

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With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

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– 30 –

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