

FOR IMMEDIATE RELEASE

Gumstix Caspa™ Cameras Have An Eye For Security and Machine Vision

San Jose, CA (March 1, 2011) - Today Gumstix, Inc. released two tiny camera expansion boards for their signature Overo Computer-on-Module (COM) series - the Caspa™ VL expansion board and the Caspa™ FS expansion board. Designed for machine vision, computer surveillance or autonomous robotic solutions, the Caspa expansion boards feature the Aptina 1/3-inch VGA CMOS color image sensor with a frame rate of 60 frames per second and a 752x480 pixel resolution. The Caspa FS expansion board registers infrared and visual light. The Caspa VL expansion board includes an IR cut-off filter-to-filter infrared spectrum and monitor only visual light for precise and colorful images.

"The Pixhawk project at ETH Zurich focuses on implementing computer vision on micro air vehicles (MAVs) to enable autonomous action. Our goal is to process all images on-board", said Lorenz Meier, founder of the PIXHAWK project. "We created the PIXHAWK camera board at ETH Zurich and worked with Gumstix engineers to develop this board into their Gumstix Caspa products. The commercial availability of these tiny camera boards should help us reach our goal of complete autonomy".

"Gumstix, Inc.'s collaboration with the world-class robotics group at ETH has produced these very small cameras that provide machine vision using the latest in CMOS technology for dynamic range and low cost. The Caspa FS and Caspa VL expansion boards have been designed for industrial, military and hobbyist engineers developing autonomous systems", said Dr. W. G. Kruberg, President and CEO of Gumstix.

The 10-bit parallel interface with the Overo COM's dedicated image signal processing hardware establishes high data throughput while reducing CPU loads. Each Gumstix Overo COM, powered by an OMAP35x applications processor from Texas Instruments (TI), offers low power consumption and high computing power with an ARM® Cortex™-A8 CPU and up to 512 MB of RAM. The Caspa VL and the Caspa FS expansion boards, combined with any Gumstix Overo COM, offer design engineers an economical, smart and quick to market camera platform. Each board uses the same schematic, which is openly published for rapid incorporation into a custom product or solution.

The Caspa FS and Caspa VL expansion boards cost \$64 USD each in an order that includes 1,000 or more. For prototyping, R&D or hobbyist use, the boards are also available in small quantities at www.gumstix.com.

About Gumstix, Inc.

Founded in 2003, Gumstix, Inc. of San Jose California develops, manufactures and markets tiny Linux® computers and related products to customers located in more than 50 countries worldwide. Design engineers integrate Gumstix technology into power management, location sensing, data collection, time and attendance, military, security, robotic applications.



For more information, visit www.gumstix.com.

About ETH Zurich

ETH Zurich, a leading international university for technology and the natural sciences, orients its research strategy around global challenges such as climate change, world food supply and human health issues. The PIXHAWK project was started by Lorenz Meier as his ETH Excellence Scholarship project.

About the Texas Instruments Developer Network

Gumstix, Inc. is a member of the TI Developer Network, a community of respected, well-established companies offering products and services based on TI analog and digital technology. www.ti.com/dspdevnetwork

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