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Ambarella Extends Industry's Widest Range of Flying Camera SoC Solutions

New A12S and A9SE camera SoCs deliver Full HD and 4K Ultra HD video with advanced image stabilization

SANTA CLARA, Calif.--(BUSINESS WIRE)-- Ambarella, Inc. (NASDAQ:AMBA), a leading developer of low-power, HD and Ultra HD video compression and image processing semiconductors, today announced the addition of A12S and A9SE to its range of camera solutions for drones, or flying cameras. The Full HD A12S SoC family enables a new generation of entry-level flying cameras, including small form factor designs and racing drones; while the 4K Ultra HD A9SE SoC family is ideal for midrange designs. Both deliver outstanding high-resolution video, DSLR-quality photography, live HD video streaming and advanced image stabilization. A comprehensive flying camera SDK (Software Developers Kit), including Linux® and complete camera functionality, gives application developers the ability to differentiate their products with advanced camera, flight control and networking features.

"Ambarella has become a recognized leader in flying cameras, with the majority of high quality flying cameras shipping today using our solutions," said Fermi Wang, CEO of Ambarella. "With the introduction of A12S and A9SE, Ambarella now offers optimized solutions for each class of flying camera, including entry level, racing drone, midrange and professional models."

The 28nm A12S SoC family provides 1080p video at 60 frames per second and up to 64 mega-pixel photography. It supports advanced image stabilization with rolling shutter correction, HDR (High Dynamic Range) processing for excellent imaging in high contrast lighting environments, as well as low delay, live video streaming to the flying camera controller. A 1-GHz ARM® Cortex™ A9 CPU provides the required performance for advanced camera, flight control and streaming applications. With the option of an 11x11mm package and power consumption of under 1 Watt, A12S is ideal for miniature camera designs.

The A9SE SoC family is a new, enhanced, higher performance 28nm version of the successful 32nm A9 SoC. It enables 4K Ultra HD recording with hardware-accelerated 3-dimensional image stabilization with rolling shutter correction, potentially eliminating the need for mechanical gimbals in midrange flying cameras. It simultaneously records 4K video while streaming a second, low-delay, HD video stream. Its advanced hardware-accelerated image de-warping capability allows the use of wide-angle lenses with minimal image distortion. 1-GHz Dual Cortex ARM A9 CPUs provide the required performance for advanced camera, flight control, streaming and analytics applications. With power consumption of only 1.5 Watts for 4K recording, the A9SE enables extremely small and lightweight camera designs.

Pricing and Availability:

Pricing and availability for A12S and A9SE SoCs for both flying camera and action camera applications can be obtained directly from Ambarella at: www.ambarella.com/about/contact/inquiries

The URL for this news release is: www.ambarella.com/about/news-events.html

The URL for related images is: www.ambarella.com/about/news-events/press-images/flying-camera-solutions-image.html

About Ambarella:

Ambarella, Inc. (NASDAQ: AMBA), is a leading developer of lowpower, high-definition (HD) and Ultra HD video compression and image processing solutions. The Company's products are used in a variety of HD cameras including security IP cameras, sports cameras, wearable cameras, flying cameras and automotive video processing solutions. Ambarella compression chips are also used in broadcasting TV programs worldwide. Ambarella is the recipient of the Global Semiconductor Alliance 2014 Award for "Most Respected Emerging Public Semiconductor Company." For more information about Ambarella, please visit www.ambarella.com.

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