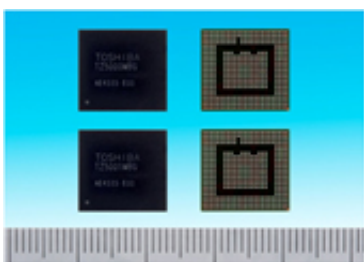


# Toshiba launches application processors supporting wireless communication of high quality video

February 21 2014

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Toshiba Corporation today announced the launch of the "TZ5000 series" of application processors supporting wireless communication of high quality video, as the latest addition to its ApP Lite. Sample shipments will start in May, with mass production scheduled to start in September, 2014.

Increasingly, delivery of video and audio over the internet (OTT: Over The Top) requires set top boxes and similar equipment to receive the service and distribute contents to PCs and smartphones via wireless LAN. The "TZ5000 series" application processors integrate a baseband function compliant with IEEE802.11ac, the standard for high speed wireless LAN, and also incorporate 32Gbit NAND flash memory in a single package. This secures a broad bandwidth connection, which is

often limited when each component is individually mounted on a PCB, and also reduces mounting area, contributing to downsizing of equipment.

The series also adopts an original low power design, reducing power consumption and heat generation when processing multimedia applications, such as HTML5, which usually imposes a heavy load to the CPU.

## **Broadband connection with wireless host devices**

The bandwidth of connections between devices is often limited when they are connected through PCI Express® or SDIO interfaces. The "TZ5000 series" achieves [broadband connection](#) by incorporating an IEEE802.11ac baseband engine, CPU, and memory into a single package.

## **Multi chip package with 32Gbit NAND flash memory**

32Gbit NAND flash memory and a dedicated memory controller are incorporated into the package, securing fast boot of software, such as the operating system, and high speed data access. It is secure against falsification of data or hacking attacks because the program area is built into the package.

Recently more and more devices are connected to the internet. ApP Lite (Application Processor Lite) does not simply feed raw data to the cloud, such as images captured by sensors and audio, but also carries out efficient signal processing and extract necessary data through image recognition, contributing to reductions of data loads.

## **Applications**

OTT tuners, IP media box, wearable devices, digital signage equipment, and thin client devices.

Provided by Toshiba Corporation

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