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AMD (NYSE: AMD) today unveiled a new family of low power server processors: the AMD Opteron X-Series optimized for scale-out server architectures. The first AMD Opteron X-Series processors, formerly known as "Kyoto, are the highest density, most power-efficient small core x86 processors ever built1. The new X1150 and X2150 processors beat the top performing Intel Atom processor on key performance benchmarks2, including single thread and throughput performance with superior power-efficiency, twice the cores and L2 cache with a more advanced pipeline architecture, higher integration and support for up to 32 gigabytes of DRAM?4x more than the Intel Atom processor.
The AMD Opteron X-Series processors come in two variants. The AMD Opteron X2150, which consumes as little as 11 watts, is the first server APU system-on-a-chip integrating CPU and GPU engines with a high-speed bus on a single die. This enables customers to take advantage of leading-edge AMD Radeon HD 8000 graphics technology for multimedia-oriented server workloads. The AMD Opteron X1150, which consumes as little as 9 watts, is a CPU-only version optimized for general scale-out workloads.
"The data center is at an inflection point and requires a high number of cores in a dense form factor with integrated graphics, massive amounts of DRAM and unprecedented power efficiency to keep up with the pace of innovation of Internet services, said Andrew Feldman, corporate vice president and general manager, Server Business Unit at AMD. "AMD has a proud history of server innovation, and the AMD Opteron X-Series processors challenge the status quo by providing unmatched capabilities to drive the most energy-efficient servers in the industry.
The AMD Opteron X-Series processors are now the worlds premier small-core x86 APUs and CPUs, ideal for next-generation scale-out web and cloud applications ranging from big data analytics to image processing, multimedia content delivery, and hosting.
"Fundamental changes in computing architectures are required to support space, power and cost demands organizations need to deliver compelling, new infrastructure economics, said Paul Santeler, vice president and general manager, Hyperscale Server business segment, HP. "The new x86 AMD Opteron X-Series processors integrated into future HP Moonshot servers will continue to push the boundaries of power efficiency for social, mobile, cloud and big data workloads.
Key Facts, Performance and Technical Detail
CPU
4 "Jaguar 64-bit x86 cores
Frequency:
X1150 CPU - up to 2 GHz
X2150 APU - up to 1.9 GHz
Power Consumption:
X1150 - as low as 9 Watts
X2150 - as low as 11 Watts
Graphics (X2150 APU only)
128 AMD Radeon HD 8000 cores
Graphics Core Next Architecture
Video encode/decode offload
Video compression offload
Memory Interface:
64-bit DDR3 with ECC (up to 1600 MHz)
Up to 32 GBytes of DRAM (SODIMM
 UDIMM)
Integrated I/O:
PCI-e Gen 2 - 8 lanes
USB 2.0 - 8 ports
USB 3.0 - 2 ports
Video Interfaces - DisplayPort, VGA, HDMI
Serial-ATA2/3 - 2 ports
Package
24.5mm x 24.5mm FT3 BGA
About AMD
AMD (NYSE: AMD) is a semiconductor design innovator leading the next era of vivid digital experiences with its ground-breaking AMD Accelerated Processing Units (APUs) that power a wide range of computing devices. AMD's server computing products are focused on driving industry-leading cloud computing and virtualization environments. AMD's superior graphics technologies are found in a variety of solutions ranging from game consoles, PCs to supercomputers. For more information, visit http://www.amd.com .

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