



IP-Maker to deliver the first IP core compliant to the NVM Express specification

NVMe IP core designed by IP-Maker brings drastic performance increase
and driver standardization to PCIe SSDs

January 6, 2012, Aix en Provence, France – IP-Maker announces the availability of the first IP core compliant to the NVM Express specification. This is a very important step for the Solid-State Drive (SSD) market where the actual technology suffers from a throughput bottleneck. The IP-Maker NVMe IP core is the only architecture able to sustain growing performance demand for PCIe SSD applications, enabled by non-volatile memory technology.

The IP-Maker NVMe IP core is a powerful data transfer manager, to be integrated in SSD controllers between the PCI Express IP and the NandFlash controller. “PCIe SSD manufacturers will benefit from a performance increase thanks to the IP-Maker NVMe IP core”, says Mickaël Guyard, Product Marketing Director at IP-Maker. “This efficient DMA manager ensures the data flow up to the NandFlash, therefore off-loading the motherboard CPU”.

SSD and server manufacturers will benefit from this new technology thanks to the hardware and software interface standardization. All SSDs which are NVM Express compliant will be supported by a unique driver, which leads in an ease of use and a software development cost reduction.

About IP-Maker NVMe IP Core

The IP-Maker NVMe IP core architecture is based on a queue mechanism with advanced register interface, command set and feature set including error logging, status and system monitoring. Using pre-validated NVMe IP Core allows to greatly reduce Time-To-Market for storage OEMs that want to benefit from a powerful data transfer manager. The IP-Maker NVMe IP core is full featured, easy to use into FPGA and SoC designs. To be easily integrated with the system interface, the NVMe IP core is natively on RAM-like interface.

The free available evaluation package comes with documentation, encrypted RTL code, simulation model and test bench. The full source is available for ASIC integration.

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About IP-Maker

IP-Maker provides products and design services for embedded storage systems. The company develops and licenses intellectual properties. Their standards IPs are optimized for high performance storage applications (e.g. enterprise SSDs). Services include customized IPs and IP integration. IP-Maker is located in Aix en Provence, France. IP-Maker is a NVM Express specification adopter.