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MosChip Launches Co-Processor Featuring PCI Express to Quad USB IO Controller for a Variety of Applications Including Extension Cards, Media Docking Stations and More

MosChip's MCS9990 is a Highly Integrated Co-Processor With Robust Features; MosChip's Comprehensive Systems and Applications Software is Also Offered for Faster Time to Market for Designers

SANTA CLARA, Calif. – August 17, 2009 – MosChip Semiconductor Technology Ltd., a leading provider of high performance connectivity solutions for consumer, industrial and computing applications, today announced its MCS9990 co-processor that features a PCI Express (PCIe) to quad USB IO controller. The MCS9990 is ideal for applications including USB extension and add-on cards; PCIe add-on cards; media docking stations; USB port replicators; digital audio / video applications; print server applications; video security monitoring applications; test equipment and more. The part is also provided with MosChip's comprehensive systems and applications software so original design manufacturers (ODM) can realize expedited time to market.

The MCS9990 is a single lane multi-function PCIe to USB 2.0 host controller. It supports two modes of operation – USB host mode and OTG mode, selectable through device mode select pins. The USB host mode supports four USB 2.0 ports. The OTG mode supports two USB 2.0 host ports, one USB OTG port and a provision to select GPIO or ISA interface. The four USB 2.0 host ports are integrated with on-chip transceivers and support an Enhanced Host Controller Interface (EHCI) and Open Host Controller Interface (OHCI). The USB OTG port is integrated with OTG PHY and supports host and device operations. The provisional ISA interface supports up to four serial ports and/or up to two parallel ports. The provisional 24 GPIO pins are programmable as an input or output.

The MCS9990 is fully compliant with PCI Express Base Specification, Revision 1.1, and with related card specifications to support high speed 2.5 Gbps differential transmit and receive lines. Other convenience features include hot-swapping, allowing users to connect / disconnect devices without powering down the system. It supports simultaneous operation of multiple USB 2.0 and USB 1.1 devices. Support is possible for up to 127 devices per port.

"The MCS9990 builds upon our family of solutions for PCIe-based connectivity and also comes with MosChip's comprehensive hardware and software solutions to enable system manufacturers to realize faster time to market," commented Bhanu Nanduri, COO of MosChip. "Such comprehensive design services also aid system manufacturers in their quest to reduce design-related costs, helping us continue our leadership role in providing quality end-to-end design solutions that enable faster time to revenue for everyone."

MosChip's MCS9990 is offered with comprehensive design support:

- Software driver suite with available source code for Microsoft® Windows® Vista® 32 and 64-bit / XP® 32 & 64-bit; Embedded CE® 5.0 and 6.0; Apple® Mac® OS 10.4 and above; and Linux 2.6.14 and above
- EEPROM utility and diagnostics
- Gerber OMEGA™ and Protel system schematics and other supporting documentation
- World-class support with comprehensive system design services

Packaging, Pricing and Availability

Featuring 2-wire I2C interfaces for an EEPROM connection and ROHS support, the MCS9990 is packaged in 128 pin LQFP. Operating temperature is 0 to 85 degrees Celsius. It features an on-chip voltage regulator, the core operating at 1.2V and the IO at 3.3V. The MCS9990 also features a JTAG Port for board level diagnostics. The MCS9990 is available now and is priced at \$12.50 in 500 unit quantities. For more technical information on this device, visit <http://www.moschip.com/mcs9990.php>.

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About MosChip Semiconductor Technology Ltd.

MosChip Semiconductor Technology Limited, a fabless semiconductor company, was founded in 1999 with headquarters and a design center in Hyderabad, India. The operations, sales and marketing activities are conducted via its wholly owned subsidiary, MosChip Semiconductor Technology, USA. The company has several products that include USB, PCI and PCIe connectivity; network appliance processors and co-processors; and audio-video content processors. For more information about MosChip, please visit www.moschip.com.

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