

## New Product Announcement

### Lattice MachXO3 FPGAs with Very High Density I/O Available from Mouser

**July 14, 2014** – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking the [MachXO3™ Field Programmable Gate Arrays \(FPGAs\)](http://www.lattice.com) from [Lattice Semiconductor](http://www.lattice.com). The MachXO3 uses a new packaging technology that eliminates bond wires, both increasing performance while reducing cost. This innovative packaging approach results in increased gate and input/output (I/O) density while maintaining a small board footprint. The MachXO3 FPGAs are designed on a 65nm non-volatile low power process technology and operate as fast as 150MHz.

The new [Lattice Semiconductor MachXO3 Field Programmable Gate Arrays](http://www.lattice.com), available from Mouser Electronics, boast a very high gate density not usually found in [programmable logic](http://www.lattice.com). These FPGAs feature low power consumption with almost instant-on activity after power-up. Densities in this FPGA family range from 640 to 6900 Look-Up Tables (LUTs). In addition to LUT-based low-cost programmable logic these devices also feature embedded block RAM (EBR) and distributed RAM. Internal phase locked loops (PLLs) reduce component count.

Advanced configuration support includes dual-boot capability and hardware versions of commonly used embedded blocks such as an SPI interface, two I2C interfaces, and a timer/counter. These features allow developers to quickly configure these devices for their applications without having to configure the FPGA for these commonly used logic blocks.

Enhanced flexibility in the I/O include drive strength control for driving external loads, slew rate control to compensate against high frequency oscillations, PCI bus compatibility, internal pull-up and pull-down resistors on the I/O pins, and open drain outputs for driving loads.

The MachXO3 is flexible enough to be used across many market segments including consumer, [communications](http://www.lattice.com), data storage, [industrial applications](http://www.lattice.com), and [automotive applications](http://www.lattice.com).

To learn more, visit:

<http://www.mouser.com/new/Lattice-Semiconductor/lattice-machxo3-fpgas/> .

With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in advanced technologies. Mouser offers customers 20 global support locations and stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is updated daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses an industry-first interactive catalog, data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

### **About Mouser Electronics**

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 500 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 400,000 customers in 170 countries from its 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <http://www.mouser.com>.

### **About Lattice Semiconductor**

Lattice Semiconductor is a service-driven developer of innovative low cost, low power programmable design solutions, including FPGAs, PLDs and programmable power and board management devices. Lattice provides customers with a comprehensive support ecosystem that includes powerful, easy to use Design Tools, IP cores, Reference Designs, Development Kits and local technical support.

### **Trademarks**

Mouser and Mouser Electronics are registered trademarks of Mouser Electronics, Inc. All other products, logos, and company names mentioned herein may be trademarks of their respective owners.

– 30 –

Further information, contact:  
Kevin Hess, Mouser Electronics  
Vice President Technical Marketing  
(817) 804-3833  
[Kevin.Hess@mouser.com](mailto:Kevin.Hess@mouser.com)

For press inquiries, contact:  
Kelly DeGarmo, Mouser Electronics  
Manager, Corp Comm & Media Relations  
(817) 804-7764  
[Kelly.DeGarmo@mouser.com](mailto:Kelly.DeGarmo@mouser.com)