



New Product Announcement

Microsemi PolarFire FPGAs Now Shipping from Mouser Electronics

Mid-Range FPGAs Deliver 300K LE and SerDes Performance for Industrial IoT Applications

December 4, 2018 – [Mouser Electronics](#), Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking [PolarFire™](#) field-programmable gate arrays (FPGAs) from [Microsemi](#). The flash-based, mid-range PolarFire FPGAs deliver 300K logic elements at up to 50 percent lower power consumption than equivalent SRAM-based FPGAs. The devices offer best-in-class security, single event upset (SEU)-immune fabric, and serializer/deserializer (SerDes) performance for a variety of applications in the [communications](#), defense, aviation, [industrial](#) automation, and [Internet of Things](#) (IoT) markets.

The [Microsemi PolarFire](#) FPGAs, available from Mouser Electronics, provide cost-effective bandwidth processing capabilities for the increasing number of converged 10 Gbps ports with the lowest power footprint. The devices integrate the non-volatile FPGA fabric, 12.7 Gbps transceiver performance, 1.6 Gbps differential inputs and outputs (I/Os), hardened security IP, and a cryptographic processor. The 28 nm CMOS silicon features power optimization combined with the lowest static power for mid-range density FPGAs, while the Flash*Freeze mode yields even lower standby power.

Mouser also stocks the Microsemi [PolarFire evaluation kit](#), designed to help engineers evaluate a broad class of applications such as high-speed transceiver evaluation, 10Gb Ethernet, IEEE1588, JESD204B, SyncE, and SATA. The kit connections include a high-pin-count FPGA mezzanine card (FMC), six SMAs, PCIe edge connector, Dual Gigabit Ethernet connectors, SFP+ cage, and USB-to-UART terminal.

The kit ships with a one-year Gold Software License, which includes the Libero SoC PolarFire Design Suite of comprehensive, easy-to-learn, easy-to-adopt development tools. The suite integrates industry-standard Synopsys Synplify Pro® synthesis and Mentor Graphics ModelSim® simulation with best-in-class constraints management and debug capabilities.

To learn more, visit www.mouser.com/microsemi-polarfire-fpga.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 750 manufacturers. Mouser offers 23 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

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