**Newark Adds New Range of Innovative Power Solutions from MPS**

*The ground-breaking selection of compact, energy efficient and easy-to-use power solutions by Monolithic Power Systems (MPS) can help accelerate design and bring products to market faster.*

**Chicago – June 2, 2020:** [Newark,](http://www.newark.com/) the Development Distributor, has enhanced its semiconductor portfolio with a new range of compact, highly energy efficient power, motion control, and sensor solutions by Monolithic Power Systems (MPS). Since the company was established in 1997, MPS has patented many ground-breaking technologies, including its most notable achievement of integrating an entire power system onto a single chip, which continues to drive their highly integrated systems today. Its mission is simple: to provide green, practical, and compact solutions that help to reduce total energy consumption.

MPS is the fastest growing power semiconductor company, specialising in the manufacture of small, energy efficient and easy-to-use power modules. The modules are commonly used in systems to support industrial applications, telecom infrastructures, cloud computing, automotive and consumer applications. Design engineers will benefit from MPS’ specialised single-package power modules which integrate a maximum number of components, including the inductor, to provide an entire power system in one device. Integrating all components into a single package accelerates the design process and provides greater flexibility for customers to focus on configuring a device’s attributes.

MPS power modules to be stocked by Newark, include:

* The [**MPM3822C**](https://www.newark.com/monolithic-power-systems-mps/mpm3822cgrh-p/dc-dc-conv-sync-buck-1-15mhz-150deg/dp/54AH3190?scope=partnumberlookahead&ost=MPM3822CGRH-P&searchref=searchlookahead&exaMfpn=true) is an ultra-small and ultra-low noise step-down power module in a QFN-18 package with an integrated inductor, suitable for space-limited applications, storage and portable products. Providing up to 2A of continuous output current from a 2.75V to 6V input voltage range, the MPM3822C offers excellent load and line regulation with low EMI. Other key features include short-circuit protection, cycle-by-cycle over-current protection as well as Enable (EN) and Power Good (PG) for power sequencing.
* The [**MPM3811**](https://www.newark.com/monolithic-power-systems-mps/mpm38111gr-p/dc-dc-conv-sync-buck-1mhz-125deg/dp/54AH3188?scope=partnumberlookahead&ost=MPM38111GR-P&searchref=searchlookahead&exaMfpn=true) is a monolithic, step-down, switch-mode converter with built-in, internal power MOSFETs and an inductor. The MPM3811 achieves 1A of continuous output current from a 2.3V to 5.5V input voltage with excellent load and line regulation. The MPM3811 is ideal for a wide range of applications, including high-performance DSPs, wireless power, portable and mobile devices, and other low-power systems.
* The [**MPM3695-25**](https://www.newark.com/monolithic-power-systems-mps/mpm3695grf-25-0022/dc-dc-conv-20a-500khz-125deg-c/dp/69AH1518?ost=MPM3695GRF-25-0022)is an industry-leading scalable and fully integrated power module with a PMBus interface.It can deliver up to 250A peak and 200A of continuous current and a low voltage output down to 0.5V. Ideal for telecom and networking systems, it provides up to 60 percent higher power density compared to discrete point-of-load (POL) solutions and offers a core rail supply for many devices. With a small QFN-59 package and a wide input/output voltage range, the MPM3695-25 power module is also suitable for use in industrial equipment, serves and computing as well as FPGAs/ASIC artificial intelligence and data mining.

**Lee Turner, Global Head of Semiconductors and SBC for Newark** says: “MPS is a true innovator in the semiconductor market, and this new agreement allows us to deliver the highest quality power solutions to customers in industrial, telecom, cloud, automotive and consumer applications whilst further bolstering Newark’s global power portfolio. This state-of-the-art range further demonstrates our continued commitment to provide our customers with the most innovative power solutions that can accelerate the design process and can help bring products to market faster. Many of our design-oriented customers enjoy having the flexibility to use high quality, integrated solutions when designing applications so they can focus on other critical hardware or software components.”

Newark offers an extensive range of products in its comprehensive semiconductor portfolio to support design engineers. Customers also have free access to online resources, data sheets, application notes, videos and webinars on Newark’s website and 24/5 technical support.

The MPS range of power semiconductor solutions are available for fast shipping from [Farnell](https://uk.farnell.com/b/monolithic-power-systems-mps) in EMEA, [element14](https://sg.element14.com/b/monolithic-power-systems-mps) in APAC and [Newark](https://www.newark.com/b/monolithic-power-systems-mps) in North America.

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**Notes to Editors**

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