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## **MPS launched 180V, 16-Channel, Analog Switch Multiplexer for Ultrasound Applications that Requires No High-Voltage Supplies**

SAN JOSE, Calif., March 21, 2017 /PRNewswire/ -- Monolithic Power Systems, Inc. (MPS) (Nasdaq: MPWR), a leading company in high-performance analog solutions, today announced its launch of two [new high-voltage analog switch ICs](#), the [MP4816A](#) and [MP4816](#), for medical ultrasound imaging applications.

Our 180V, 16-channel, analog switches can pass or block transmit signals of up to  $\pm 90V$  and require no high-voltage supplies. Because other legacy solutions require one positive and one negative high-voltage supply, eliminating these two supplies would significantly simplify the power supply design and lowers power dissipation. Support circuitry, such as power up/down sequencers, are also eliminated. These new ICs will reduce the size and cost and increase reliability of the system.

As the medical ultrasound market trend increases the number of piezoelectric transducers in the probe head, the MP4816A and MP4816 become ideal solutions by eliminating any safety concerns with high-voltage DC lines on the cables.

Both the MP4816A and MP4816 output switches are configured as sixteen single-pole, single-throw (SPST) analog switches controlled by a 16-bit serial shift register with parallel latches. Typical output switch resistance is only  $12.5\Omega$  to minimize signal attenuation and thereby maximize image quality. The MP4816A has an integrated output bleed resistor, whereas the MP4816 does not. Both parts are available in 48-pin TQFP packages. Samples are available now.

### **About Monolithic Power Systems**

Monolithic Power Systems, Inc. (MPS) provides small, highly energy efficient, easy-to-use power solutions for systems found in industrial applications, telecom infrastructures, cloud computing, automotive, and consumer applications. MPS' mission is to reduce total energy consumption in its customers' systems with green, practical, compact solutions. The company was founded by Michael Hsing in 1997 and is headquartered in San Jose, CA. MPS can be contacted through its website at [monolithicpower.com](http://monolithicpower.com) or its support offices around the world.

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