Vicor Launches 12V to 48V NBM Module at GTC 2018

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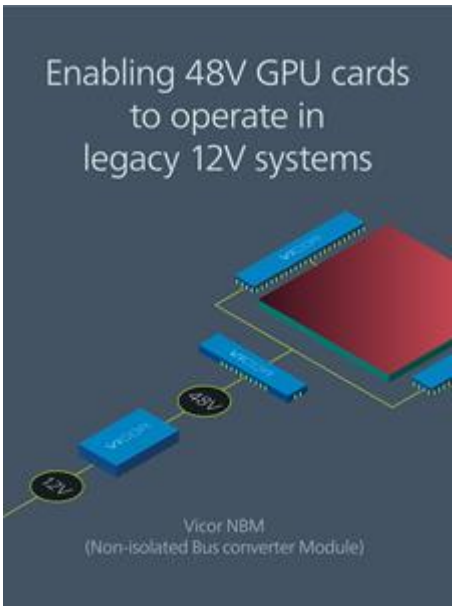
Supports High-Performance 48V GPUs in Legacy 12V Data Centers

SAN JOSE, Calif., March 27, 2018 (GLOBE NEWSWIRE) -- Vicor Corporation (NASDAQ:VICR) today announced a 12V to 48V non-isolated up converter to support 48V high-performance GPUs in data centers that are still relying on legacy 12V power distribution.



Vicor's NBM supports state-of-the-art 48V input GPUs using Power-on-Package ("PoP") Modular Current Multipliers ("MCMs")

The 2317 NBM converts 12V to 48V with over 98% peak efficiency, 750W continuous and 1kW peak power in a 23 x 17 x 7.4mm surface-mount SM-ChiP package. The NBM (NBM2317S14B5415T00) provides a complete solution with no external input filter or bulk capacitors required. By switching at 2MHz with ZVS and ZCS, the NBM provides low output impedance and MHz fast transient response to dynamic loads. The NBM incorporates hot-swap and inrush current limiting.

The NBM supports state-of-the-art 48V input GPUs using Power-on-Package ("PoP") Modular Current Multipliers ("MCMs") driven from a 48V node sourcing a small fraction (1/48) of the GPU current. Current multiplication overcomes the power delivery boundaries imposed by traditional 12V systems standing in the way of higher bandwidth and connectivity.

Vicor Power-on-Package modules build upon Factorized Power Architecture (FPA) systems deployed in high-performance computers and large-scale data centers. FPA provides efficient power distribution and direct conversion from 48V to 1V for GPUs, CPUs and ASICs demanding up to 1,000A. By deploying current multiplication in close proximity to high current Artificial Intelligence (AI) processors, PoP MCMs enable higher performance and system efficiency.

Learn more about the Vicor 2317 NBM and Power-on-Package current multipliers by visiting us at the GPU Technology Conference.

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About Vicor Corporation
Headquartered in Andover, Massachusetts, Vicor Corporation, manufactures and markets innovative, high-performance modular power components, from power modules to semiconductor-centric solutions, to enable customers to efficiently convert and manage power from the power source to the point of load. www.vicorpower.com

Power Component Design Methodology

The Vicor Power Component Design Methodology enables power system designers to reap all of the benefits of modular power component design – predictable component and system functionality and reliability, fast design cycles, and easy system configurability, re-configurability and scaling – while achieving system operating efficiency, power density and economy that rival the best alternative solutions. Utilizing the Vicor Power System Designer, engineers can select from an extensive portfolio of proven Vicor power components to architect, optimize and simulate their complete power system, all the way from their input sources to their points of load. This innovative approach to power system design delivers fast time-to-market and state-of-the-art performance while minimizing the possibility of last minute surprises and delays that so often occur with conventional or custom design methodologies.

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A photo accompanying this announcement is available at http://www.globenewswire.com/NewsRoom/AttachmentNg/73fa1d09-6a8d-4b22-9d0b-d6ee30741553

Source: Vicor Corporation