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OSS Introduces World's First PCIe Gen 4 Backplane at NVIDIA GPU Technology Conference

SAN JOSE, Calif., March 21, 2019 (GLOBE NEWSWIRE) -- One Stop Systems, Inc. (Nasdaq: OSS), a leader in specialized high-performance computing, has introduced the world's first PCIe Gen 4 backplane, the OSS 5 Slot Gen 4 Backplane (OSS-PCIe4-BP-5x16), at the [GPU Technology Conference](#) being held this week in San Jose, Calif.

PCIe Gen 4 offers cutting-edge system performance that doubles the interconnect bandwidth over Gen 3. It provides 16 GT/s per lane, or 256 GT/s in a x16 PCIe Gen 4 slot, alleviating system bottlenecks between CPU complexes and accelerators, storage and IO devices.

The OSS Gen 4 backplane features one Gen 4 x16 target slot and five Gen 4 x16 downstream slots for GPUs, NVMe drives or network interfaces. Two of these backplanes are installed into the OSS 4U Value Chassis, along with OSS Gen 4 cable adapters and eight NVIDIA® V100 Tensor Core GPUs, to create the next-generation HPC acceleration platform.

The value chassis can be connected to any Gen 4-equipped server with two 256Gbps connections. The V100 Tensor Core GPUs currently have Gen 3 interfaces; however, the OSS 4U Value Chassis aggregates the GPU traffic from several Gen 3 V100s and provides connection to the server at Gen 4 speeds. It will support all Gen 4 IO and accelerator cards as they become available throughout the year.

"We have been consistently first-to-market with each new generation of PCIe technology, and Gen 4 is no exception," said Steve Cooper, CEO of OSS. "OSS PCIe backplanes form the core of our high-performance computing products, and our new Gen 4 backplane offers double the IO performance. Our customers in the HPC, military, media and entertainment markets can now take advantage of the additional bandwidth available in Gen 4-equipped servers, and be ready when Gen 4 IO cards hit the market."

"Delivering the high performance required by edge applications necessitates PCIe interconnectivity traveling on the fast data highway between high-speed processors, NVMe storage and compute accelerators using GPUs or application specific FPGAs," continued Cooper. "'[AI on the Fly](#)' applications naturally demand this capability, like the government mobile shelter application we [announced](#) earlier this year."

Visitors to GTC can view the Gen 4 Backplane and 4U Value Chassis in the OSS booth #640. Customers can order a custom configuration of the rack-scale solution from the company's highly-trained sales engineers at sales@onestopsystems.com.

About One Stop Systems

One Stop Systems, Inc. (OSS) designs and manufactures innovative specialized high performance computing building blocks and platforms for OEMs that provide systems to scientists, engineers, creators and other professionals who push the boundaries of their industries. These specialized platforms include customized servers, compute accelerators, flash storage arrays, expansion systems and storage software. The products are used for deep learning, AI, defense, finance and entertainment applications. OSS utilizes the power of PCI Express, the latest GPU accelerators and NVMe flash cards to build award-winning systems, including many industry firsts, for OEMs and government customers. The company's innovative hardware and Ion Accelerator Software offers exceptional performance and unparalleled scalability. OSS products are available directly or through global distributors. For more information, go to www.onestopsystems.com.

Forward-Looking Statements

One Stop Systems cautions you that statements in this press release that are not a description of historical facts are forward-looking statements. These statements are based on the company's current beliefs and expectations. These forward-looking statements include statements regarding the ability of the OSS 5 Slot Gen 4 Backplane to alleviate system bottlenecks, double the IO performance, and aggregate the GPU traffic of several NVIDIA Volta GPUs and other expected benefits of the OSS 5 Slot Gen 4 Backplane. The inclusion of forward-looking statements should not be regarded as a representation by One Stop Systems that any of our plans will be achieved. Actual results may differ from those set forth in this press release due to the risk and uncertainties inherent in our business, including,

without limitation: risks associated with the performance of One Stop Systems' technology and the new OSS 5 Slot Gen 4 Backplane; the market for the OSS 5 Slot Gen 4 Backplane and PCIe Gen 4 IO accelerator cards is developing and may not develop as we expect; and other risks described in our prior press releases and in our filings with the Securities and Exchange Commission (SEC), including under the heading "Risk Factors" in our Annual Report on Form 10-K and any subsequent filings with the SEC. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof, and we undertake no obligation to revise or update this press release to reflect events or circumstances after the date hereof. All forward-looking statements are qualified in their entirety by this cautionary statement, which is made under the safe harbor provisions of the Private Securities Litigation Reform Act of 1995.

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