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Mellanox Announces Availability of BlueField Storage Solutions that Accelerate NVMe over Fabrics

Accelerates Storage Solution Providers' Time to Market while Improving Performance, Power Consumption, and Flash Array Affordability

SUNNYVALE, Calif. & YOKNEAM, Israel--(BUSINESS WIRE)-- Mellanox Technologies, Ltd. (NASDAQ: MLNX), a leading supplier of high-performance, end-to-end smart interconnect solutions for data center servers and storage systems, today announced the availability of storage reference platforms based on its revolutionary BlueField™ System-on-Chip (SoC), combining a programmable multicore CPU, networking, storage, security, and virtualization acceleration engines into a single, highly integrated device.

BlueField integrates all the technologies needed to connect NVMe over Fabrics flash arrays, with the fastest performance available in the market. BlueField provides 200 Gb/s of throughput and more than 10 million IOPS in a single SoC device. In addition, the powerful on-board multicore ARM processor subsystem enables flexible programmability that allows vendors to differentiate their software-defined storage appliances with advanced capabilities. This makes BlueField the ideal chip to control and connect All Flash Arrays and Just-a-Bunch-Of-Flash (JBOF) systems to InfiniBand and Ethernet Storage fabrics.

"BlueField is the most highly integrated NVMe over Fabrics solution," said Michael Kagan, CTO of Mellanox. "By tightly integrating high-speed networking, programmable ARM cores, PCIe switching, cache, memory management, and smart offload technology all in one chip; the result is improved performance, power consumption, and affordability for flash storage arrays. BlueField is a key part of our Ethernet Storage Fabric solution, which is the most efficient way to network and share high-performance storage."

"As data takes over the world, networked storage takes over computing," said Peter Burris, GM and Chief Research Officer of Wikibon. "The BlueField SoC controller is a leading example of the right technology at the right time."

BlueField and the BlueField flash array reference platform are being shown at Flash Memory Summit, Aug. 8-10, at the Santa Clara Convention Center, Mellanox booth, #138. BlueField samples and storage reference design systems will be available in Q4, 2017.

Supporting Quotes:

"We use Mellanox NICs and RDMA today, and are excited that BlueField integrates all the technologies needed to connect NVMe over Fabrics flash arrays," said Yaniv Romem, CTO at Excelero. "We are looking forward to seeing the fastest performing SoC come to market in the form of Mellanox BlueField technology."

"Continuous innovation around NIC and RDMA solutions is why E8 Storage is proud to collaborate with Mellanox to deliver an end-to-end shared NVMe solution for high-performance enterprise storage applications," said Ziv Serlin, VP System Architecture, E8 Storage. "With 200 Gb/s of throughput and up to 10 million IOPS in a single SoC device, BlueField will bring increased performance and flexible programmability to the industry."

"BlueField will power a new class of flash storage designs based on Mellanox's robust SoC," said Evan Chien, Director of Inventec. "We are pleased to see this advancement as BlueField enables a new level of flexible programmability that will enable us to differentiate our products with additional advanced capabilities."

"The Mellanox BlueField technology and ConnectX®-5 adapters can pass storage traffic directly to our flash controllers and NVRAM devices, thereby greatly enhancing NVMe over Fabrics performance," said Derek Dicker, vice president and business unit manager for performance storage at Microsemi. "Our SwitchTek PCIe switches and FlashTek SSD controllers are the ideal fit for flash storage systems using the BlueField SoC and we look forward to leveraging this technology."

"BlueField holds the promise of greatly enhancing our product offerings," said Eugene McCabe, EVP, Sanmina. "As we continue to improve our offerings, BlueField will enable us to offer our customers increased performance and efficiency, thereby delivering a more robust system solution."

"BlueField is a brand new, highly integrated device," said Peter Tung, Chief Operation Officer for Enterprise Business Group, Wistron. "The advanced performance and capabilities makes it an elegant solution for controlling and connecting our All Flash Arrays to Mellanox InfiniBand and Ethernet storage fabrics."

Supporting Resources:

- | Follow Mellanox on: [Twitter](#), [Facebook](#), [Google+](#), [LinkedIn](#), and [YouTube](#)
- | [Join the Mellanox Community](#)
- | Mellanox Introduces: [New BlueField Family of System-on-Chip Programmable Processors for Storage and Networking Applications](#)
- | BlueField: [Product information](#)
- | BlueField: [Software Overview](#)

About Mellanox

Mellanox Technologies (NASDAQ: MLNX) is a leading supplier of end-to-end InfiniBand and Ethernet smart interconnect solutions and services for servers and storage. Mellanox interconnect solutions increase data center efficiency by providing the highest throughput and lowest latency, delivering data faster to applications and unlocking system performance capability. Mellanox offers a choice of fast interconnect products: adapters, switches, software and silicon that accelerate application runtime and maximize business results for a wide range of markets including high performance computing, enterprise data centers, Web 2.0, cloud, storage and financial services. More information is available at: www.mellanox.com.

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