



## Broadcom Joins Forces with Industry Leaders to Simplify Storage Bay Management

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### Leads SFF-TA-1005 (UBM, Universal Backplane Management) Spec, Standardizing the Management of SAS, SATA and NVMe Drives

SAN JOSE, Calif., June 12, 2018 (GLOBE NEWSWIRE) -- Broadcom Inc. (NASDAQ:AVGO) today announced it has co-sponsored and developed the approved SFF-TA-1005 Universal Backplane Management (UBM) specification with Dell EMC and Hewlett Packard Enterprise and 19 other participants, which provides a common management framework for SAS, SATA, and NVMe devices. The SFF-TA-1005 UBM specification will help to unify and standardize backplane management in the data center.

"Control and management of multi-protocol backplanes has been loosely defined in the industry, making it a challenge for companies to simplify designs and product offerings. Broadcom joined forces with HPE and Dell EMC to bring clarity and simplicity to the management of SAS, SATA, and NVMe drives," said Jas Tremblay, vice president and general manager, Data Center Solutions Group, Broadcom. "Broadcom continues to spearhead storage industry standards development to enable a healthier ecosystem."

Working with storage ecosystem suppliers through SNIA/SFF on the UBM standard provides a robust definition of a management standard that can be widely adopted across the industry. Broadcom's collaboration with HPE and other industry partners ensures universal storage bay management is supported by, and compatible with, all ecosystem components.

"Standardizing how IT infrastructure is managed is at the core of HPE's commitment to simplify hybrid IT for our customers," said Tom Lattin, vice president and general manager, Mass Market Platforms, Options and Software at HPE. "By collaborating with partners like Broadcom on industry standards such as UBM and U.3 Universal Drive Bay, HPE helps global businesses deploy more versatile and streamlined server infrastructure. Universal backplanes that incorporate emerging NVMe drives with SAS and SATA will give customers the flexibility to choose the most optimized drive configurations for their workloads."

UBM is finding support from a wide variety of server and storage OEMs, large data centers and device vendors. Key benefits of UBM include:

- Holistic support of SAS, SATA and PCIe (NVMe) backplanes
- Supports storage topologies such as controller-, expander- and switch-attach
- High-speed lane mapping descriptions
- Device slot and device presence information
- Management of LED states and slot power control and
- Management of PCIe Reset and Reference Clock mechanisms
- Flexibility for future extensions

The UBM reference platform unifies the capabilities of various backplane management schemes, including functionality provided in SGPIO (SFF-8485), 2-Wire SES and 2-Wire PCA9555 usages. UBM (SFF-TA-1005) is driven out of the SNIA SFF Technology Affiliate (TA) Technical Work Group (TWG). The "Specification for Universal Backplane Management (UBM)" can be found at <http://www.snia.org/sff/specifications>.

#### About Broadcom

Broadcom Inc. (NASDAQ:AVGO) is a leading designer, developer and global supplier of a broad range of digital and analog semiconductor connectivity solutions. Broadcom Inc.'s extensive product portfolio serves four primary end markets: wired infrastructure, wireless communications, enterprise storage and industrial & other. Applications for our products in these end markets include: data center networking, home connectivity, set-top box, broadband access, telecommunications equipment, smartphones and base stations, data center servers and storage, factory automation, power generation and alternative energy systems, and electronic displays. For more information, go to [www.broadcom.com](http://www.broadcom.com).

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