Single-Chip Ethernet Switch Enables Mass Deployment of 10Gb/s in the Data Center

IRVINE, Calif., /PRNewswire-FirstCall/ -- Broadcom Corporation recently announced a new series of multi-layer Ethernet devices that enable faster connectivity between servers in the data center. The Broadcom® BCM56840 series represents the eighth generation of the company's leading StrataXGS® switch architecture and provides up to 64-ports of 10 Gigabit Ethernet (10GbE) with the flexibility to also support 40 Gigabit Ethernet (40GbE).

Until now, only large corporations such as Fortune 500 companies and research organizations have had the resources to build data centers with high performance 10GbE switches connected directly to servers.

The new Broadcom BCM56840 series changes these economics by delivering high performance, sub-microsecond latency and ultra low power on a single chip, thereby enabling any data center — regardless of size — to unleash the power of cloud computing.

Designed in 40 nanometer (nm) process technology, the BCM56840 series offers an advanced level of integration and converged Ethernet capabilities marking the first time a silicon solution has been available for the practical large scale deployment of 10GbE.

With 64-ports of 10GbE or 16-ports of 40GbE connectivity, integrated SerDes, and scalable services, the new BCM56840 series is specifically designed to unlock the greater potential of cloud computing and fuel more widespread market adoption of 10GbE. The series can be used as a foundation element to build next generation top-of-rack switches, blade switches and modular switches. These switches can be tied together to deliver a highly scalable network, interconnecting thousands of servers for enterprise, as well as cloud provider data centers.

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