

## **Energy Efficient Networking Lowers Power Consumption and Reduces Operating Costs**

IRVINE, Calif., /PRNewswire-FirstCall/ -- Broadcom announces a range of new silicon devices that support the Energy Efficient Ethernet (EEE) IEEE P802.3az draft standard. Broadcom is leading an industry-wide effort to deliver networking products that consume less power with the introduction of new Ethernet controller and physical layer (PHY) device solutions.

Network equipment of all types can benefit from lower power consumption that reduces energy costs and lowers overall operating costs for IT organizations. Broadcom provides these enhanced power savings through Broadcom® Energy Efficient Networking -- a set of standards-friendly features, including AutogrEEEn™ technology, that extends the power saving capabilities of its EEE draft-compliant products.

Some key highlights include:

- The IEEE P802.3az specification provides for energy savings at the PHY level when the network link is idle.

- Network infrastructure components can take advantage of power savings when the network stack experiences periods of inactivity, starting with both sides of the media access controller (MAC)/PHY interface, when a port is in EEE mode.

- In multi-port systems, the savings could be increased further by optimizing shared resources.

Broadcom Energy Efficient Networking provides additional power savings by:

- Supporting the enhanced Layer 2 savings mechanism (currently optional for triple speed products and mandatory for 10 Gigabit speeds in the IEEE 802.3az specification).

- Implementing comprehensive control policies in Broadcom PHY and controller chips that allow for optimized, customizable and enhanced energy savings for a wide variety of applications.

- Broadcom Energy Efficient Networking implements energy savings metrics that allow Broadcom end-customers to quantify the savings that are realized during operation.

- A Broadcom EEE draft-compliant PHY lowers power consumption by up to 70% during periods of low traffic utilization when compared to a PHY without EEE implemented.

- The overall power consumption is reduced on products including switches, storage systems, servers and personal computers that have a Broadcom EEE-enabled PHY in their design.

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