

Marvell Introduces Industry's First-To-Market 40nm Ultra-Low Power Octal Gigabit Ethernet Transceivers

Marvell's latest generation of Alaska transceivers delivers energy-efficient, active ultra-low power physical layer solutions for a GREEN networking infrastructure

SANTA CLARA, Calif., May 10, 2011 /PRNewswire/ -- [Marvell](#) (Nasdaq: MRVL), a worldwide leader in integrated silicon solutions, today announced the launch of the Marvell® Alaska® V series, the industry's first 40nm ultra-low power, eight-port, energy-efficient gigabit Ethernet transceivers. The 88E1680 transceiver, which is part of the Alaska V family of transceivers, delivers the lowest active power per port at 10/100/1000Mbps data rates. The Alaska V series incorporates Energy Efficient Ethernet (EEE) features based on the IEEE 802.3az standard for significant power savings during idle periods.

(Logo: https://investor.marvell.com/image/Marvell_logo.jpg)

The Alaska V 88E1680 transceiver supports EEE technology when interfaced with EEE-aware MAC devices and legacy devices that do not support EEE, enabling a seamless migration to standards-based EEE networking solutions. The 88E1680 transceiver, with innovative mixed-signal design techniques, offers 2x cable performance compared to IEEE 802.3 requirements, all in a small, cost-effective package. With a high level of integration and enriched features, the Alaska V 88E1680 transceiver sets a new standard in energy savings for next-generation cloud infrastructures.

Key Facts:

- Energy efficiency and high performance are key components for next-generation public and private cloud infrastructures
- Space-saving, cost-optimized packages enable high port densities and modular applications
- The Alaska V 88E1680 transceiver addresses the need for energy-efficient cloud architectures and solidifies Marvell's leadership in gigabit Ethernet transceivers.
- The 88E1680 device is sampling to tier-one customers

Product Highlights:

- At 280mW/port active power consumption, the Alaska V 88E1680 transceiver is the lowest power gigabit PHY in the industry
- Support for EEE standards with new generation of EEE MAC devices with legacy or non EEE-aware MAC while being fully backward compatible
- Cable-length performance of up to 200m over standard Cat5/5e
- Supports widely adopted MAC interface – QSGMII – and combines 4 SGMII interfaces into single differential pairs of signals operating at a 5G data rate, thus lowering pin count, board complexity and power consumption up to 50 percent
- Supports Synchronous Ethernet and IEEE 1588v2 time-stamping features for time-aware applications
- Proven to work with low-cost magnetics while lowering EMI
- Thermally efficient package eliminates the need for fans or heat-sinks, which allows for a small form factor

Supporting Quotes:

- Paul Valentine, vice president of marketing for Marvell's Enterprise Business Unit, said, "The advent of public and private cloud infrastructures necessitates highly efficient networks. The Alaska V 88E1680 transceiver enables the adoption of EEE standards, offering more than 75 percent energy savings in EEE mode across a wide range of applications. Alaska V's efficiency and performance greatly complement Marvell's cloud-computing solutions, ultimately lowering operating costs and increasing profitability."

Related Links:

- Product information: http://www.marvell.com/products/transceivers/alaska_gigabit_ethernet_transceivers/
- Marvell media materials: http://www.marvell.com/company/press_kit/

About Marvell

Marvell (NASDAQ: MRVL) is a world leader in the development of storage, communications, and consumer silicon solutions. Marvell's diverse product portfolio includes switching, transceiver, communications controller, wireless, and storage solutions that power the entire communications infrastructure including enterprise, metro, home, and storage networking. As used in this release, the term "Marvell" refers to Marvell Technology Group Ltd. and its subsidiaries. For more information, visit Marvell.com.

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