

Marvell Expands AVANTA Family With One-Of-A-Kind UPON Media Converter

Device eliminates the need for field upgrades and offers drastic power savings for next-generation optical deployments

SANTA CLARA, Calif., Jan. 8, 2013 /PRNewswire/ -- Marvell (NASDAQ: MRVL) today announced an expansion to its groundbreaking AVANTA® product line, the Marvell® AVANTA LP MC – 88F6601 Universal PON (UPON) low-power media converter. Designed to support single GE port single-family units (SFUs) and the rising popularity of passive optical networks (PONs) for residential broadband connectivity, the device supports Ethernet passive optical network (EPON), Gigabit passive optical network (GPON) and Ethernet point-to-point broadband connectivity with a single, highly integrated system-on-chip (SoC).

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

The 88F6601 media converter is specifically designed and focused to meet indoor and outdoor deployment requirements. It provides a cost-effective solution tailored to meet highly constrained, leading world telecoms system specifications. The converter also offers a radical reduction in power consumption, providing an optimized fiber-to-the-home (FTTH) solution for new optical network terminals (ONTs).

"Marvell's latest addition to the AVANTA family once again raises the technology bar by presenting an innovative approach for PON termination and conversion to Ethernet in a pluggable SFP device," said Roman Kleinerman, senior marketing and product line manager of Marvell Semiconductor, Inc. "More specifically, by enabling the conversion of standard Ethernet equipment into UPON-capable systems – without a field upgrade – Marvell offers significant cost savings to operators around the world who are deploying FTTH networks. The converter is also a classic example of the many ways in which Marvell enables lightning-fast, round-the-clock connectivity to support the connected lifestyle."

The 88F6601 is comprised of an integrated ARM CPU, GPON and EPON MAC, a programmable packet processor, GE Ethernet MAC, an 802.3az compliant energy-efficient Ethernet GE PHY, 1588v2 support and two TDM channels for POTS. In addition, the converter is designed for smooth content delivery and offers a line rate performance with full IPv4 and IPv6 support.

At a glance, the 88F6601's features include:

- A fully integrated SoC – for cost-effective mass deployment of optical broadband
- Seamless support for UPON MAC: GPON, EPON and P2P Ethernet – for cost and size savings and to leverage unified development and combined volumes
- Marvell Embedded Voice Processing – for VoIP connectivity to industry-standard SLICs, enabled with Marvell's MMPv2 VoIP engine
- IEEE-compliant energy-efficient Ethernet – for dynamic power management of active Ethernet link

About Marvell

Marvell (NASDAQ: MRVL) is a global leader in providing complete silicon solutions enabling the digital connected lifestyle. From mobile communications to storage, cloud infrastructure, digital entertainment and in-home content delivery, Marvell's diverse product portfolio aligns complete platform designs with industry-leading performance, security, reliability and efficiency. At the core of powerful consumer, network and enterprise systems, Marvell empowers partners and their customers to always stand at the forefront of innovation, performance and mass appeal. By providing people around the world with mobility and ease of access to services adding value to their social, private and work lives, Marvell is committed to enhancing the human experience.

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