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For Immediate Release

BroadLight Launches the Industry's First End-to-End GPON Solution Featuring the BL2000 ONT System-on-Chip

*New SoC Delivers the Only Integrated GPON
Solution for Customer Premises ONT Applications*

May 23, 2005 – Mountain View, Calif. – Leveraging its proven PON expertise, BroadLight, Inc., today unveiled a complete end-to-end (E2E) GPON solution that features the BL2000 GPON System-on-Chip (SoC) for cost-focused ONT applications. The highly-integrated E2E GPON solution consists of PONmaker software, OLT MAC, OLT and ONT transceivers and the BL2000 family of ONT SoCs. Delivering unprecedented performance and integration, BroadLight's E2E GPON provides customers with a low-cost and low-risk solution that will significantly speed their time to market with ITU-T G.984-compliant GPON equipment. The company is showcasing these new products at the Supercomm tradeshow, booth #73012.

“The GPON market is heating up worldwide, because carriers are interested in its 2.5 Gbps performance, 1:64 split ratio, and native transport of both Ethernet and TDM. The first vendor that can deliver a GPON SoC is in a good position to capture design wins,” said Michael Howard, Principal Analyst and Co-Founder of Infonetics Research. “BroadLight's new E2E GPON is the first chipset family we've seen that can help manufacturers quickly produce low-cost GPON product sets.”

“Just as BroadLight enabled the ITU-T compliant and interoperable BPON market in North America, we intend to emerge as the world leader in GPON,” said Andy Vought, CEO of BroadLight. “Our E2E GPON is the culmination of extensive dialog with customers and carriers and we are currently engaged with all the major players to win GPON designs. As a result, we are confident that our SoC development is the right solution for the low-cost ONT.”

E2E GPON is a complete solution for delivering up to 2.5 Gbps of packet and 155 Mbps of TDM data using GPON Encapsulated Mode (GEM) for up to 64 users on a single PON. E2E GPON enables new and emerging carrier class IP-based services such as VoIP and IPTV as well as legacy CATV for residential and native transport of T1/E1/J1 for businesses.

“BroadLight is 100% focused on PON and has been extensively involved with the FSAN ITU-T initiatives for developing GPON,” said Didi Ivancovsky, founder and VP of Products for BroadLight. “We knew we had to drive to the lowest cost solution for the Single Family Unit ONT from the start with a platform powerful and flexible enough to support IP with QoS and have the performance to enable the easy development of the Small Business Unit Multi-tenant and Multi-dwelling Unit ONTs along with legacy TDM services.”

About E2E GPON:

E2E GPON consists of the following products to provide a complete end-to-end ITU-T G.984 compliant GPON for Ethernet and native TDM services:

- BL3000 family of OLT MAC FPGAs with interfaces to support GEM based transport of Gigabit Ethernet and TDM. Features include; configurable AES, Forward Error Correction (FEC) and Dynamic Bandwidth Allocation (DBA).
- PONmaker ITU-T G.984 software stacks for OLT and ONT provides control and management of the PON.
- OLT Transceivers designed with a glueless interface to BroadLight’s GPON MAC.
- ONT SFF MSA compliant Transceivers with 2 wavelengths for all IP services and a 3-wavelength Transceiver module with embedded RF video receiver based on BroadLight’s proven CATV over PON technology.
- BL2000 family of ONT SoC ASIC for SFU to MxU ONT applications.
- ONT TDM GEM FPGA for T1/E1/J1 services.

About the BL2000 family of GPON SoC:

The BL2000 is an application optimized, completely integrated solution for customers designing ITU-T G.984 compliant ONT equipment. Key features of the GPON SoC include:

- GPON ITU-T G.984 MAC using GEM adaptation for packet and TDM services.
- 1.25 and 2.5 Gbps SerDes and CDR circuitry enables glueless interfacing with low-cost GPON 2 and 3-wavelength transceivers.
- High-performance, packet processor for wire-speed data path classification and filtering with the bandwidth and processing power required by IPTV applications.
- 10/100/1000 Ethernet MACs.
- TDM GEM interface for the companion TDM GEM FPGA.
- Embedded CPU for a versatile and effective signaling and control plane platform.
- Comprehensive software solution that includes BSP for the leading OSs, low level drivers, boot code and packet bridging.

Product Pricing and Availability

The BL2000 family will be less than \$20 for high volume quantities. E2E GPON products will be available for sample by December 2005. For more information, contact sales@broadlight.com.

About BroadLight, Inc.

BroadLight delivers the industry's only end-to-end solution (from the customer premises to the central office) for equipment vendors designing passive optical networks (PONs.) The company's completely integrated product line consists of standards-based digital and analog optical transceivers, communication semiconductors and software solutions that enable its customers to deliver ITU-T PON equipment to carriers and services providers worldwide. This end-to-end solution provides customers with a lower risk development cycle and enables them to significantly speed time-to-market. As a result, BroadLight technology has been adopted by leading manufacturers who are currently providing equipment for some of the world's largest fiber PON roll-outs.

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