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For Immediate Release

BroadLight Enables Significant ONT Cost Reductions with the BL2901, a seamless GPON PHY for the Popular BL2000 SoC

*The BL2901 and BL2000 chipset eliminates the need for
high-cost optical transceiver modules*

October 2, 2006 – Mountain View, Calif. – BroadLight today announced the availability of the BL2901 GPON PHY (GPHY) ASIC for delivering breakthrough ONT cost reductions. The BL2901 integrates the GPON ONT transceiver's functions of PMD, control and diagnostic functions into a single ASIC. Together with BroadLight's BL2000 ONT System on Chip (SoC), makers of GPON ONTs can now eliminate the traditional costly transceiver module and replace it with lower cost Bidirectional (BiDi) or Planar Lightwave Circuit (PLC) optical devices. This lower B.O.M. cost GPON ONT using the BL2901 and BL2000 combination can be realized through BroadLight's cost optimized GPON ONT reference design.

The new BL2901 is sampling today and is being unveiled at the FTTH Conference in Las Vegas (October 3-5). Also shown will be BroadLight's BL2000 and BL2901 combo chipset in a cost optimized GPON ONT reference design.

"ONT cost is the number one feature in the PON market and the BL2901 will enable BroadLight's customers to be successful with the major GPON rollouts," said Andrew Vought, CEO of BroadLight. "We are very pleased to be first again with such silicon and software innovation that is easy to implement in time for the GPON volume ramp."

"A GPHY device, like this one from BroadLight, is what was needed to drive down the price of the costliest section of the ONT – the optical block," said Jeff Heynen, Directing Analyst of Broadband and IPTV for Infonetics Research "BroadLight's approach by coupling it with its BL2000 SoC even allows improvements in operational lifecycle costs giving service providers the ability to monitor the ONT's optical link over time and take any necessary measures."

About GPHY

The BL2901 is an analog front-end for the BL2000 ONT SoC for interfacing with and controlling Bidirectional (BiDi) and Planar Lightwave Circuit (PLC) optical devices. The BL2901's functions includes a limiting amplifier supporting a choice of PIN or APD diodes and burst-mode laser driver for FP or DFB lasers. The control through BroadLight's GPHY application software enables compensation for aging, temperature and tracking variations during operation. In manufacturing test, the large variance in optical device parameters is compensated automatically tuning the optics for optimum performance thus cutting down the testing time and labor cost. Taking advantage of the intelligence in the BL2000 SoC, a rich set of flexible controls and diagnostics are available to the designer and the service providers during the operations of the ONT, providing for additional cost savings.

Complete Reference Design

The BL2901 is available with a complete reference design that enables OEMs and ODMs to develop GPON ONT products quickly and at low risk. The reference design features BroadLight's BL2338 GPON SoC and BL2901 GPON PHY. The reference design is targeted for GPON CPE markets for Single Family Unit (SFU) ONT as well as Optical Network Units (ONU) for fiber to the Building/Curb (FTTB/FTTC) applications. The reference design includes the GPHY application software for diagnostics and calibration for manufacturing test as well as an extended API as part of BroadLight's *PONMaker* Software Suite.

About BroadLight

BroadLight delivers end-to-end (E2E) solutions (from the customer premises to the central office) for equipment vendors designing ITU-T compliant passive optical network (PON) systems. The company's completely integrated product line consists of standards-based communication semiconductors and software solutions that enable its customers to deliver BPON and GPON equipment to carriers and services providers worldwide. This E2E 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 the some of the world's largest fiber PON roll-outs.

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