



data communications

# Press Release

## **RAD and BroadLight Join Forces to Offer Pseudowire “Triple Play” Solution for GPON Networks** Significantly Reduces Design Costs and Complexity of *OLT and ONT Systems*

*Tel Aviv, September 19, 2006:* RAD Data Communications has announced that it has completed interoperability testing of its TDM pseudowire technology with BroadLight, a leading vendor of PON (passive optical network) solutions.

Using the companies' combined technologies, service providers will be able to deploy GPON (gigabit PON) fiber access networks that support “triple play” voice, video and data applications and T1/E1 voice, leased line and Frame Relay services.

The cost-optimized, end-to-end TDM pseudowire solution enables standards-compliant, transparent delivery of TDM services through central office and customer premises GPON equipment. The two companies estimate that the requirement for T1/E1-based services over GPON will reach a total of more than 250,000 terminals serving small and medium business worldwide by 2008.

The joint solution is based on BroadLight's BL2000 integrated GPON System on Chip and RAD's standards-based TDM pseudowire technology. The solution will enable one to four E1/T1 ports on the Optical Network Termination (ONT) side and circuit emulation aggregation at up to STM-1/OC-3 rates (155 Mbps) at the Optical Local Termination (OLT) in the central office. RAD and BroadLight are co-marketing the pseudowire-over-GPON solution to telecommunications system vendors and service providers worldwide.

### **Minimizes Maintenance and Operating Costs**

“TDM pseudowire technology, developed and pioneered by RAD, is an evolutionary approach for transporting circuit-switched telephony and legacy data over IP and Gigabit Ethernet networks,” explains Jacky Acoca, Business Development Manager at RAD Data Communications. “It transparently converts E1 or T1 TDM circuits into IP packets for

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transmission over high performance next generation networks,” he continues. “By maintaining all the features and functionality of TDM telephony end-to-end across the network, pseudowire technology is able to deliver voice, fax, modem and data services over IP networks without compromising quality.”

“The combination of GPON and TDM pseudowire technology simplifies the integration and time-to-market of legacy equipment and services with fiber optic access networks,” says Doron Tal, Director of Product Marketing at BroadLight. “Using pseudowire to transport TDM traffic significantly reduces design costs and complexity of OLT and ONT systems, allowing carriers to rapidly deploy GPON networks supporting a complete range of telecommunications services.”

### **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 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 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 the some of the world’s largest fiber PON roll-outs.

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### **About RAD**

Founded in 1981, RAD Data Communications is now marking 25 years of innovation as an industry leader in the development of access solutions for data and telecommunications applications. RAD’s solutions serve the data and voice access requirements of service providers, incumbent and new carriers, and enterprise networks, by reducing infrastructure investment costs while boosting competitiveness and profitability. The company's installed base exceeds 9,000,000 units and includes more than 150 carriers and operators around the world. These customers are supported by 23 RAD offices and more than 200 distributors in 164 countries.

RAD is a member of the RAD Group of companies, a world leader in networking and internetworking product solutions.

RAD Data Communications site: [www.rad.com](http://www.rad.com)

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