



## Civcom Unveils RZ Tunable 12.5G Transponder

*Newest Addition to Free Light™ Family Delivers High-Performance Optical Transmissions Using RZ Modulation Format*

**PETACH TIKVA, ISRAEL – January 6th, 2009** – Civcom, a leading technology developer and manufacturer of Opto-electronic components, modules and subsystems, today announced the availability of a new RZ Tunable 10G transponder. Complementing Civcom's Free Light™ family of tunable NRZ transponders, the new RZ transponder offers equipment manufacturers high performance for long haul terrestrial and submarine applications.

"Our newly launched RZ Tunable 12.5G Transponder is built specifically to address the challenging demands of ultra long haul terrestrial and submarine applications," stated Yair Itzhar, VP of Sales and Marketing at Civcom. "Using this transponder, carriers can achieve stable transmission performance with low optical signal-to-noise ratio over virtually unlimited distances."

Although the RZ modulation format is less commonly deployed than its NRZ counterpart, RZ offers a number of significant advantages in the areas of signal quality and non-linear effect handling. The use of RZ modulation can improve OSNR by up to 2dB in a simple receiver implementation. In long haul and ultra long haul communications, for example, RZ is much more effective due to its high tolerance of non-linear distortions of the self phase modulation (SPM) type.

Designed for long reach DWDM applications, Civcom's new RZ transponder contains both a 10Gbps widely tunable transmitter and a wide band receiver. The module, which was designed to work with 25% FEC, is compatible with the 300PIN MSA and I<sup>2</sup>C standard. The RZ transponder uses a widely tunable laser covering the entire C-Band.

### **About Civcom®**

Civcom, acquired by Padtec of Brasil in February 2008, is a pioneer in the development and manufacturing of cost-saving dynamic Opto-electronic components and modules, specializing in the field of 10Gbps and 40Gbps Telecom applications. Founded in 2000, with HQ and sales office in Israel, Civcom leads the way in the field of dispersion tolerance transmission providing solution for some of the most progressive tunable transponders. Civcom's Free-Light line of products consists of Civcom's 300PIN MSA widely tunable 10Gbps transponders, based on industry's highest performing widely tunable laser technology, coupled with Civcom's expertise in electro-optic integration, most advanced dispersion



compensation technologies and tunable laser control algorithms. Civcom's transponders integrate Optical Dispersion Compensation, allowing a wide range of applications for networks reaching from 80km – up to 170km. For additional information about Civcom, visit [www.civcom.com](http://www.civcom.com)



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