

Use 100G Immediately and Protect Your Investment in the Long Term: The Compact 100G Transponder/Muxponder by Microsens Extends Existing Optical Networks

Hamm, 26 June 2013 – With immediate effect, the new 100G muxponder/transponder by Microsens enables carriers to extend existing 10G networks in a flexible and cost-effective manner. The installed basic configuration is completely maintained. A redesign of the network is not required. The muxponder/transponder uses an existing wavelength in the DWDM network either for the transmission of 10 x 10G or as a 100G transmission channel. In spite of the double function, the system only takes up one height unit. In comparison with other solutions, the 100G muxponder, thus, saves considerable space and, as a result, costs for space and energy.

For many carriers, 10 Gbps will continue to be the most important transmission rate in the near future. The call for bandwidth, however, is continuously increasing and the demand for connections with a transmission rate of 100 Gbps is growing. Microsens enable their customers to immediately use the 100G technology by means of the combination of a 100G transponder and muxponder. The operating mode is exclusively determined by the corresponding firmware. Service providers will benefit in even two respects: The existing networks are completely maintained. At the same time, the providers can now also fulfil the individual demands of their customers for fast Ethernet connections in the short term.

If the system is used as a 100G muxponder, the 10 independent channels can be used to transfer different protocols, such as 8G Fibre Channel, OTU2, OC-192/STM-64, 10GbE, and 10G Fibre Channel. To work with low transmission rates, additional TDM multiplexers can directly be pre-connected at the client interface, which permits the transmission of other services and rates, such as OC-48/STM-16, OC-12/STM-4, OC-3/STM-1, 1/2/4G FC, or 10/100 Ethernet.

When being employed as a transponder, the Microsens 100G solution again proves to be a convincing one due to its sophisticated functions, which protect investment in the long term and increase the quality level at the same time. On demand, a programmable chip permits an update of the Microsens Next Generation Fast Error Correction (NG FEC). This allows the carrier to benefit in the short term from the new findings on error correction in 100G networks. In total, the optical signal-noise ratio, i.e. the OSNR performance, is in the range of 14 dB. The transponder uses DP-QPSK with a coherent receiver as a digital modulation procedure. It ensures the compatibility to the ITU grids with 50 and 100 GHz.

The Microsens 100G solution can be monitored via SNMP or a standardized management interface, including a Command Line Interface (CLI). Moreover, Digital Diagnostics Management (DDM) can be used via the SFP+ interfaces. At the line end, a 10-Mb data communications channel is provided for remote management. The management via the Microsens Network Management System is also supported.

For further information, please go to www.microsens.de

About MICROSENS

Since 1993, MICROSENS GmbH & Co. KG has been standing for fiber optic solutions. As one of the pioneers of fiber optic transmission systems, the internationally active company covers all performance sectors of fiber optic technology. Starting with solutions for future-safe office networking and high-availability in rough environments, the product portfolio ranges over large-scale site networking and interconnection of computing centres up to high-performance Wide Area Networks (WANs). In all these fields of application,

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MICROSENS provides and ensures efficient, fast, and secure data transfer. As an internationally successful manufacturer, MICROSENS distributes its products on a worldwide scale. In addition to the company headquarters in Hamm in Westphalia (Germany), MICROSENS also has sales subsidiaries in France and Poland to optimally fulfil the diverse requirements of its customers on-site. Since 2006, MICROSENS has been part of the euromicron company group, which focusses on network and optical fiber technologies applied in the IT industry.

About euromicron

euromicron AG (www.euromicron.de) is an all-round solution provider for communications, transport, data and security. euromicron's network infrastructures integrate voice, video and data transport wirelessly, via copper cable and by means of fiber-optic technologies. euromicron builds its leading applications, such as security, control, healthcare or surveillance systems, on the basis of these cutting-edge network infrastructures. Founded on its expertise as a developer and producer of fiber-optic components, euromicron AG is a strongly growing, highly profitable group that is listed on the stock market, has a medium-sized character and focuses on operational growth, integration and further market penetration, internationalization and expansion. You can find this press release along with background information and high-resolution images under: www.microsens.de.