Extending Trunks in a Simple Manner: MICROSENS Expands Product Portfolio by 10 Gigabit Ethernet Copper-to-Fiber-Optic Media Converters

Hamm, 06 April 2016 – Distances of more than 100 metres in a 10 Gigabit Ethernet network cannot be bridged, even with Cat-7 copper cabling. The new 10 Gigabit Ethernet media converter of MICROSENS GmbH & Co. KG remedies this length restriction in a simple and cost-effective manner. The compact stand-alone device comes with an RJ-45 access with a 10GBase-T as well as an SFP+ slot, which can be equipped with a corresponding fiber optic transceiver, where required. Modules are available for mono-mode as well as multi-mode operation. In mono-mode operation, the trunk can be extended from 100 metres to up to 80 kilometres.

High-performance computers or servers with 10GBase-T interfaces can be interconnected with the 10G media converter via fiber optic. High-speed access ports, for which a Gigabit Ethernet uplink is no longer sufficient, can be integrated into a fiber optic network via plug-and-play with the help of the media converter. In addition, the media converter is also suited for the deployment in virtualized data centers: Here, the networking principle "Top-of-Rack (ToR)" is frequently applied. In this scenario, a switch which is installed on a rack connects the servers, storage media, and other data center media with top speed. When using a copper connection, however, the components must not be farther away from each other than maximally 100 meters. In this application scenario, the length restriction can again be bypassed via the implementation of copper on fiber optic by means of the MICROSENS media converter.

The SFP+ slot of the stand-alone system offers a particularly high degree of flexibility: Depending on the type of fiber optic transmission, different transceivers are available, which can be deployed quickly and easily. The two transmission media copper and fiber optic can, thus, be combined in corporate networks according to the individual requirements at hand. To be able to also increase the bandwidth of the fiber optic trunk on demand, the media converter can also be used in combination with CWDM or DWDM applications.

Based on the 3R signal regeneration (Reamplification, Reshaping, Retiming), the MICROSENS system can also be used as a fiber optic repeater for long trunks. Overall, it is marked by short processing times and supports the transmission of Jumbo frames. The stand-alone device is equipped with a built-in 230 V/AC power supply unit and can be commissioned directly without much configuration effort. Color-encoded LEDs show the current status of the converter for the purpose of simple troubleshooting. The media converter is available as of now.

For further information, please see the website of the vendor at www.microsens.com

PRESS RELEASE

Contact:

MICROSENS GmbH & Co.KG
Tel. +49 (0) 2381/9452-0
Fax +49 (0) 2381/9452-100
info@microsens.de

Jessica Theyssen
Marketing Communications Manager
Tel. +49 (0) 2381 9452-242
marketing@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-proof office networking and high-availability in rough environments, the product portfolio ranges from large-scale site networking and interconnection of computing centers up to high-performance Wide Area Networks (WANs). In all these fields of application, 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.

About euromicron
euromicron AG (www.euromicron.de) that unites medium-sized high-tech companies from the fields of Digital Buildings, Critical Infrastructures and Smart Industry. As a German specialist for the Internet of Things, euromicron enables its customers to network business and production processes and successfully move to a digital future. From design and implementation, operation, to related services – euromicron implements customized solutions and creates the IT, network and security infrastructures required for them. As a result, euromicron lets its customers migrate existing infrastructures gradually to the digital age. euromicron's expertise helps the company's customers increase their agility and efficiency, as well as develop new business models that lay the foundation for commercial success down the road. The technology group is headquartered in Frankfurt/Main, has been listed on the stock exchange since 1998 and employs around 1,800 people at 30 locations. The euromicron Group comprises a total of 14 subsidiaries, including the brand names Elabo, LWL-Sachsenkabel, MICROSENS and telent. euromicron AG generated total sales of €345 million in fiscal year 2015.