

Robust 25-port Gigabit Ethernet Switch approved for railway and power distribution systems

Hamm, 31 May, 2017 – The tried and tested Profi Line rack switch from MICROSENS is now also available with special approvals for use in railway technology and power distribution systems. The robust switch in 19" design offers a total of 25 Gigabit Ethernet ports of which eight can be expanded to fiber optic connections as combo ports with SFP modules. A total of 16 copper ports offer PoE/PoE+ with which the terminal devices connected can also be supplied with electricity in a particularly economical way via the data line.

Extreme environmental conditions prevail in railway operation. The new Profi Line rack switch from MICROSENS with railway approval is especially resistant against vibration, shock and climatic fluctuation. It works safely and reliably, even under extreme temperatures. At the same time, it is insensitive to power supply fluctuations and its enormous electromagnetic immunity means it is optimally protected against EMC influences.

These special features also make it the first choice in power distribution systems (power substations). The high immunity of the new Profi Line rack switch towards electromagnetic fields and overvoltages, from lightning strikes in the vicinity no less, ensures that communication in power substations also works smoothly under the most adverse conditions.

The fanless switch can be operated in the temperature range -40 to +75°C and with DC voltage between 24 and 57 VDC. Despite its compact package size of 1 U, besides its data connections, it also has two alarm inputs and outputs, for example for cabinet monitoring or for integrating a sensor/actuator.

The Profi Line rack switch was designed for top reliability and availability with the shortest recovery times. Industrial ring structures can be established both via SFP ports or with copper connections for enhanced fault tolerance. In the event of failure, a special mechanism detects failure of a network node or interruption of a link and ensures automatic reconfiguration of the network within a few milliseconds.

The switch operating system, firmware and configuration data are saved on an SD card. This ensures that in the event of device replacement, all settings are adopted by simply inserting the SD card in the new device.

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

PRESS RELEASE

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About MICROSENS

Transmitting information via fiber optic connections offers numerous benefits. MICROSENS GmbH & Co. KG recognised this very early on. As one of the pioneers, the company has developed and produced high-performance communications and transmission systems in Germany since 1993. Individually matched to the demands of diverse usage areas and embedded in comprehensive concepts for individual sectors. But, above all, close to the customer. Technical challenges from customer projects are incorporated directly into product development. This way, IP-based automation solutions are created for modern buildings, cost-efficient network concepts for the office and workspace, robust and fail-safe solutions for industrial environments, optical transport systems future-oriented wide area networks and efficient coupling of sites and computer centres. Moreover, the companies affiliated in the euromicron group develop strategic applications and technologies for digitalized buildings, Industry 4.0 and critical infrastructures.

About euromicron AG:

As a company group, euromicron AG (www.euromicron.de) combines medium-scale high-tech companies from the sectors of digitalized buildings, critical infrastructure, and Industry 4.0. As a German specialist for the Internet of Things, euromicron enable their customers to network business and production processes and to successfully venture the path to a digital future. From the design and implementation over the operation up to combined services, euromicron implement customer-specific solutions and, thus, provide the necessary IT, network and security infrastructures. In this way, euromicron enable their customers to migrate the existing infrastructures to the digital age in a stepwise mode. The expertise of euromicron supports the customers of the company in increasing their flexibility and efficiency as well as in the development of new business models which set the cornerstone for the corporate success of tomorrow. The technology corporation, which has been registered at the stock market since 1998 and has its headquarters in Frankfurt am Main, employs approximately 1,800 employees at 30 company sites. The euromicron group includes 17 subsidiaries in total, among them the brands Elabo, LWL-Sachsenkabel, MICROSENS, and telent.