

Press Release

euromicron's subsidiary MICROSENS enables powerful university network

Top Colombian university in Medellin sets store by micro-switches "Made in Germany"

MICROSENS, a subsidiary of euromicron AG, is playing a key role in modernizing the Instituto Tecnológico Metropolitano (ITM) in Medellin – one of South America's top universities. The university is setting store by decentralized MICROSENS micro-switches for the new lecture theaters and computer rooms, as well as their equipment with Gigabit Ethernet and IP telephony. A total of 1,500 connection points will be fitted with MICROSENS technology.

Frankfurt/Main / Hamm, August 1, 2017 – The ITM (Instituto Tecnológico Metropolitano) in Medellin has a reputation extending beyond the borders of Colombia as one of the top universities in South America. The number of students enrolled there has been rising for years, with the result that over 24,000 now attend the university in Colombia's second-largest city. Its governors decided to modernize and expand the university to safeguard the quality of research and education long term. The decentralized micro-switches from MICROSENS, a subsidiary of euromicron AG, help deliver a powerful new network. They enable a cost-effective, very efficient and high-quality infrastructure to be created.

As one of the first modernization projects, the university's governors decided to establish a completely new network for all lecture theaters and computer rooms. They were to be connected with Gigabit Ethernet and equipped with IP telephony. The customer's requirements for the solution were: high bandwidth, connection of existing IP telephones to the network, use of copper cabling that had already been partially ordered, and reduction of the cable connections between the central technical room and lecture theaters.

The original idea of a structured network in star topology was soon rejected in favor of the powerful and compact micro switches. These can be installed quickly in the cable duct or floor box and significantly reduce cabling complexity, since four terminal devices are now connected by switch via an uplink. That on its own reduced the copper cables laid and the number of central switching ports to a quarter. The new solution therefore saves a lot of space in cable ducts or shafts. The lower number of cables also has advantages from the perspective of fire prevention, since the fire load

is reduced. In addition, less fire-resistant sealing of the cable paths and smaller wall cut-outs are necessary when laying cables through fire compartments.

The use of PoE-enabled installation switches means that connecting the existing IP telephones is no problem. All IP phones can be connected directly to the network via the switches. The IP telephones with a power of 5 or 9 W are supplied with electricity directly by the network cable. As part of the modernization work, a total of 1,500 connection points at the university will be equipped with MICROSENS technology by the end of 2019.

Frank Konrad, Managing Director of MICROSENS GmbH, is delighted at the cooperation: “For more than 20 years, we’ve pursued a decentralized switching approach that offers a perfect combination of technical and economic advantages. We’re proud that our solutions are now also being used at the ITM, one of South America’s top universities.”

About euromicron AG:

euromicron AG (www.euromicron.de) is a group that unites medium-sized high-tech companies from the fields of Digital Buildings, the Smart Factory and Critical Infrastructures. 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 32 locations. The euromicron Group comprises a total of 17 subsidiaries, including the brand names Elabo, LWL-Sachsenkabel, MICROSENS and telent. euromicron AG generated total sales of €325.3 million in fiscal year 2016.

About MICROSENS:

Transmitting information via fiber optic connections offers numerous benefits. MICROSENS GmbH & Co. KG (www.microsens.de) 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.

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Photo 1: The Instituto Tecnológico Metropolitano (ITM) in Medellin uses technology from MICROSENS



Photo 2: Top university in Medellin sets store by micro-switches from MICROSENS “Made in Germany”

