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MICROSENS 10G Fiber To The Office

High-performance network for schools
with constrained cabling options

Schools on the network

LAN access for schools



IT infrastructure for the digital classroom

- Decentralized fiber optic distribution
- Future-proof thanks to fiber-optic cabling
- Separate switch intelligence per classroom
- Tidy installation in existing cable ducts
- Hidden installation of technology in the suspended ceiling
- Power over Ethernet for WiFi access points
- Port security per classroom

Connection:

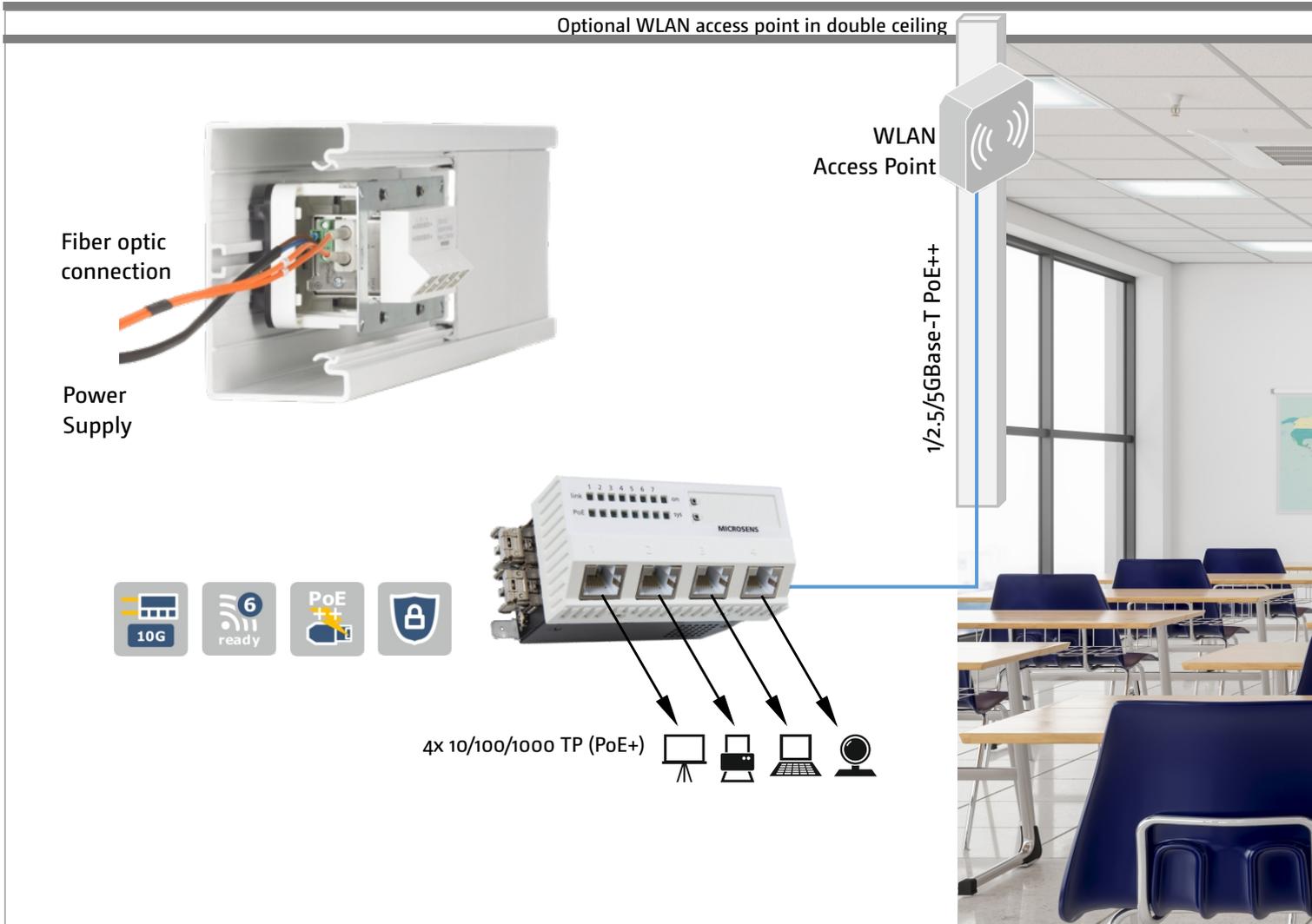
- Digital blackboard
- Teacher's computer
- Projectors
- Access Points
- Document scanners
- Smart building sensors
(e.g. presence sensors,
temperature etc.)

Advantages for the teacher

- + Option for alarms, public address system
- + Limitation of Wi-Fi for individual pupils
- + Disabling of the Wi-Fi by the teacher
- + User interface for the teacher

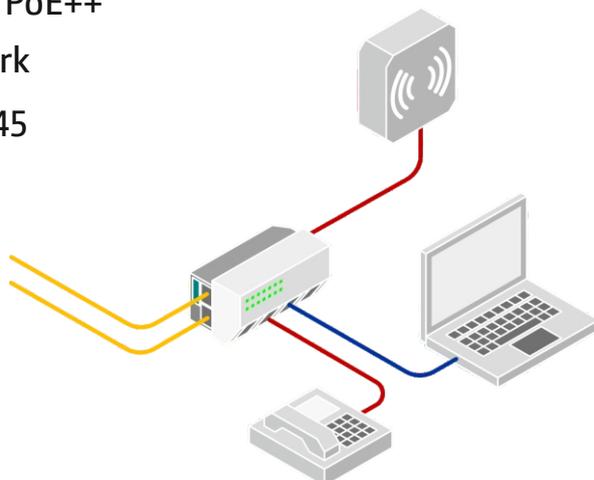
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IT infrastructure for the digital classroom



Application level

Use of the 10G Micro Switch PoE++ for demand-oriented network connection via standard RJ-45 including Multi-Gigabit Wi-Fi infrastructure





Installation situation

- Fixed, tamper-proof installation directly in the application area
- + Installation in teacher's desk, wall-mounted unit or in the duct
- + Simple connection to the bundle cable, protected connection
- + Direct and powerful connection of Wi-Fi access points connectable (Wi-Fi6)
- + Protected access to the network, student access can be regulated via VLANs
- + Central multi-service management for simple and clear administration



MICROSENS 10G FTTO

school LAN, the modern way

- Future-proof, standard-compliant and cost-efficient LAN, can be implemented even under the greatest constructional restrictions
- Easy to plan, can be easily expanded at any time, virtually or physically separated
- The greatest possible future readiness thanks to single mode fibre-optic cabling with the longest possible product life cycle
- Network infrastructure that includes a high-performance WiFi (Wi-Fi6 according to IEEE802.11ax) with multi-gigabit performance, which does not require a separate LAN structure and is already equipped today for the increasing use of tomorrow's smart devices
- Compact central switch due to intelligent 10Gigabit bandwidth sharing in ring structure
- Tamper-proof technology that can be firmly integrated into the infrastructure
- MICROSENS Micro Switches can easily be administered centrally
- The flexible cabling also ensures the possibility of structural network adaptations in the future with minimal effort



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MICROSENS STANDS FOR **COMPETENCE** IN ACTIVE NETWORK SOLUTIONS

For more than 25 years the manufacturer MICROSENS focuses on communication via fiber optic based networks for enterprises, manufacturing plants, industry and access networks. The development and manufacturing "Made in Germany" contribute significantly to this.



www.microsens.com/digital-schools

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