

November 2004



Dear readers,
dear partners,

as the market leader in
Fiber-to-the-Office
solutions, MICROSENS
presents as the first
vendor a Gigabit

Ethernet interface for the intelligent FTTO installation switches. It is now possible to connect terminal equipment through a high speed Gigabit Ethernet path with the enterprise backbone network. In addition, this highly compact technology has been expanded by further features as there is the standard-compliant support of the Power-over-LAN feature and the extended management function like VLAN and priority setting.

In the industrial market the traffic and energy segment are migrating to Standard Ethernet. Also the industrial network has to be linked into the office/enterprise environment. To cover these convergent networks MICROSENS announces a new Ethernet switch-module which fits into the MICROSENS access platform. This allows integrating industrial rings into the enterprise backbone supporting all benefits of the industrial redundant ring function.

These solutions offer a clear migration path and support the usage of Fiber optics with all the benefits of fiber. The more security is moving into people's mind the Fiber approach is a huge business opportunity of today and guarantees investments and profits for tomorrow.

Kind regards

Andreas Beierer
International Sales Director



Gigabit Ethernet Installation-Switch with Management + PoLAN

MICROSENS breaks the speed limit and integrates Gigabit performance into the Fiber-to-the-Office concept.

The latest Installation switch release for both cable conduit and floor box installation enables the connection of up to two Gigabit-terminals (10/100/1000Base-T) to a single optical Gigabit port (1000Base-SX).

Additional terminals can be connected by means of two further Fast Ethernet ports (10/100Base-TX).

The integrated Power-over-LAN-Controller assures the standard-compliant (IEEE® Std. 802.3af®) power supply of terminals like IP telephones, IP cameras or WLAN-Access Points.

The built-in management agent allows for the extensive configuration of port settings, VLANs, data prioritisation or Power-over-LAN-settings.



Features

- Gigabit Performance into the Fiber-to-the-Office concept
- Smallest installation switch for mounting in cable channels and sub floor tanks
- Installation without tools
- Data prioritisation, VLANs
- Power-over-LAN according IEEE 802.3af
- Management via SNMP/Telnet

IP-Telephony with FTTO

The convergence of voice and data networks is offering substantial cost and innovation advantages. The introduction of the IEEE 802.3af standard – defining the Power Supply over LAN (Ethernet) – took the last hurdle of connecting telephone devices via the data network away.

The latest MICROSENS Installation-Switch generation already integrates the IEEE 802.3af compliant power supply of connected terminal units like IP telephones on all copper ports. In

addition to this the optical fiber port allows the expansion of the successful Fiber-to-the-Office technology toward IP telephony systems. In this way the advantages of an optical fiber network with its high capacity and guaranteed future are combined with the strong requirements of a failsafe power supply of the telephone exchange in an ideal way.

The integrated Installation Switch data prioritisation (QoS) simplifies the construction of a telephony-ready data network and improves the transmission performance of sensitive voice data.

The integrated Switch Management agent enables the automated central monitoring, configuration and management of the network.

Central Connection of Redundant Ring Structure

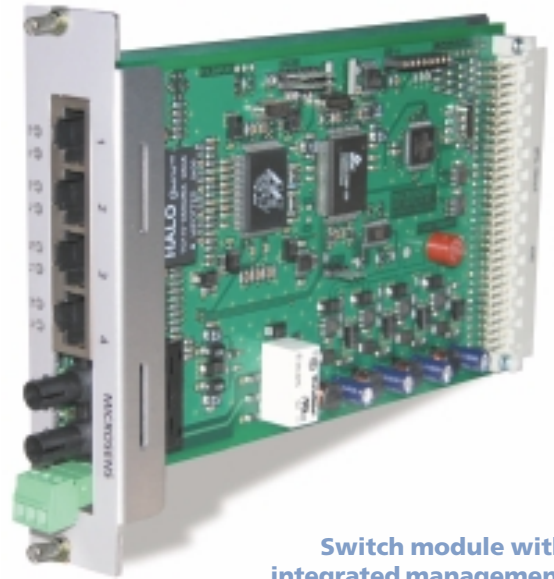
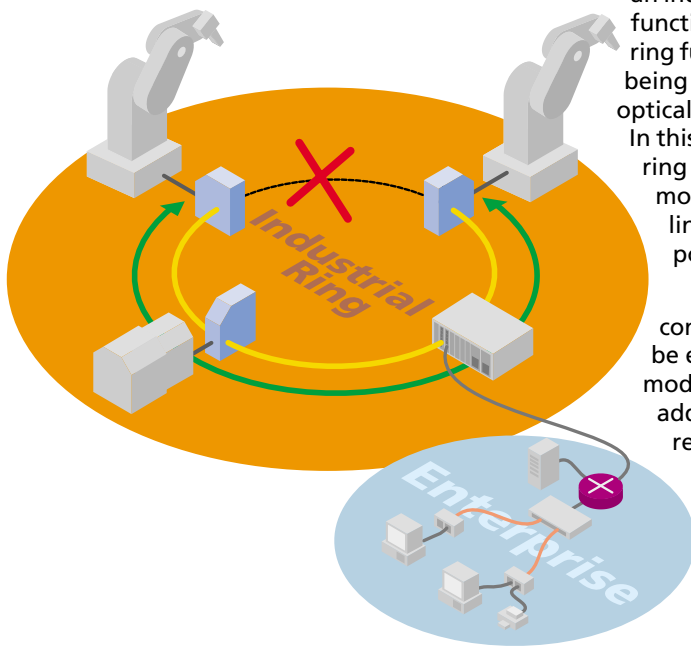
Redundant Ethernet ring structures are set up on the basis of the MICROSENS industrial switches. The ring structure greatly improves the network resilience – in case of a failing node or segment a patented protection procedure assures the recovery of all communication between on all remaining links within less than 100 ms. The transmission is based on the standard Ethernet protocol thus eliminating any need for data conversion or manipulation.

In view of the high reliability required for industrial applications all MICROSENS Industry-Line switches are specifically designed for field installation requirements.

A new module of the MICROSENS 3 U system allows the connection of such networks with a central network infrastructure.

The plug-in module provides an industrial switch functionality with the ring functionality being implemented by an optical fiber and a copper port. In this way the optical fiber ring can be set up via two modules which in turn are linked by their copper ring ports.

The central ring connection can redundantly be established via the two modules and provides an additional layer of resilience.



Switch module with integrated management

Features

- Central connection of redundant Ethernet Ring Structures
- Ring structure extension on copper ports
- Plug-in module for the modular Access platform
- 5 Port Switch 4x 10/100Base-TX, 100Base-FX Uplink
- Relay Contact
- Comprehensive Management-features

New 3 U Chassis with swappable Fan Modules

The MICROSENS Modular Access Platform is an open system featuring a wide variety of function modules designed for LAN and WAN environments as well as the conversion of telecommunication and industry interfaces.

The newly redesigned standard 3U rack takes up to 14 modules, its most important new feature are swappable fan modules, mounted at the back of the rack.



Modular 3 U chassis with 14 module slots

Features

- Maximum flexibility
- 14 module slots on 3 U
- Full compatibility with all modules of the ACCESS series
- All modules „hot-swappable“
- Central power supply with redundancy option
- Interchangeable fan modules

