MICROSENS
fiber optic solutions

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Amper
newsticker

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Dear Readers,

Together with our partner, RLC Praha a.s. I'd like to invite you to visit our booth during 13th International Trade Fair of Electrotechnics and Electronics Amper 2005 in Prague, 5-8 April 2005.

We will be demonstrating our latest solutions for enterprise segment supporting Fiber to the Office concept.

For industrial optical networking we will show among the others the newest Gigabit developments.

Brief information on these products can be found in this newsticker.

During the exhibition RLC and MICROSENS staff will be at your disposal to provide more information and answer the questions.

Tomasz Niewolik
Managing Director Eastern Europe

Meet us in Hall 1 Stand 1D11

RLC Praha a.s. is the medium-sized, all-Czech firm which works at the market of communication technologies. This company deals mainly with delivering and servicing of communication infrastructure systems, and it specialises in optical connections. The firm domicile is in Prague.

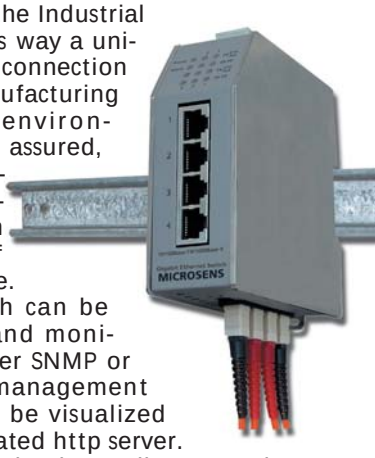
Most products and services RLC delivers are focused on Czech customers, the RLC Company also focuses its partial activities on the countries of Central and Eastern Europe.

Gigabit switch for optical RING

Industrial Ethernet is the winner for assembly lines, machinery control and factory applications. In addition to these classic industrial environments traffic control, monitoring and signalling, utility applications are becoming more and more popular Ethernet application areas.

With Gigabit Ethernet MICROSENS opens up new dimensions in the area of industrial networking. Processes like switching, control or synchronization can be transferred between the control point and point of application in the assembly floor in real time.

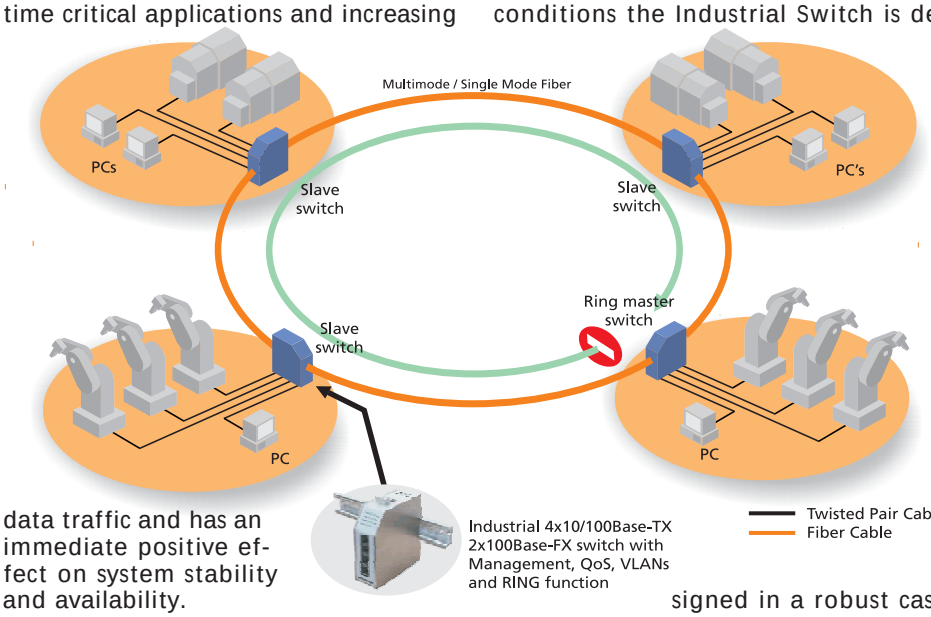
Due to its high performance Gigabit Ethernet is offering a fast data transmission. This provides more reserve for time critical applications and increasing data traffic and has an immediate positive effect on system stability and availability.



vant part of the Industrial Switch. In this way a unified network connection for both manufacturing and office environments can be assured, data is available and secure within all areas of the enterprise.

The Switch can be configured and monitored by either SNMP or a PC-based management tool and can be visualized by the integrated http server.

In view of the demanding operating conditions the Industrial Switch is designed in a robust case with an integrated clamp for a direct mounting onto 35 mm DIN Rails. The switch is designed for the safety class IP 20 and an extended temperature range.



Industrial 4x10/100Base-TX 2x100Base-FX switch with Management, QoS, VLANs and RING function

The new Gigabit Switch is equipped with two 1000Base-SX/LX Gigabit Ethernet fiber optic interfaces and allows the implementation of a fault tolerant optical ring. In case of failure the MICROSENS patented technology assures the reconfiguration of the connection within less than 100 ms.

The intelligent Gigabit Ethernet ring topology assures the continuous operation of users, even in case of a link- or component failure (Fast Redundancy).

Network users like machinery control, consoles or other terminal equipment are linked to the 10/100Base-TX switch by means of RJ-45 connections.

The Implementation of data prioritization (CoS) and VLANs according to IEEE Std. 802.1Q/p are forming a relevant part of the Industrial Switch. In this way a unified network connection for both manufacturing and office environments can be assured, data is available and secure within all areas of the enterprise.

The Switch can be configured and monitored by either SNMP or a PC-based management tool and can be visualized by the integrated http server.

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Advantages

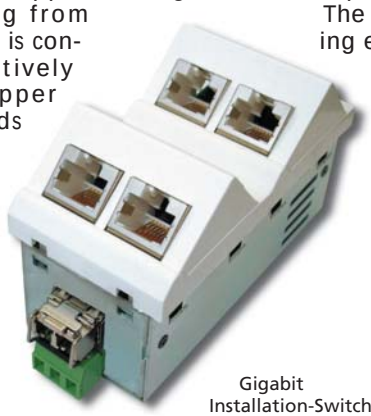
- High performance even in case of high network loads
- Short latency times, fast forwarding of data packets
- Data prioritization
- Full VLAN-Implementation
- Standard management interface (SNMP) for configuration and monitoring purposes
- Fiber optic modules up to 80 km

Gigabit Ethernet Interface for the intelligent Fiber To The Office Switch

Fiber to the Office

MICROSENS announces Gigabit Ethernet support for the well established Fiber To The Office (FTTO) family of switches. The market leader in the FTTO segment underlines it´s forward-looking position and integrates as the first vendor high speed technology into the Installation-Switches for cable channels and subfloor distribution.

The FTTO concept is based on an intelligent combination of Fiber optic infrastructure and copper cabling. The fiber link coming from the central switch is converted and actively switched to copper ports. This avoids to equip data terminal devices with costly fiber adapter cards.



Gigabit Installation-Switch

Now with Gigabit Ethernet Power

The latest Installation-Switch from MICROSENS enables the con-nection of up to two Gigabit-end devices (10/100/1000Base-T) to a single optical Gigabit port (1000Base-SX). Additional devices can be connected by means of two further Fast Ethernet ports (10/100Base-TX). With the help of these switches users can migrate to Gigabit Ethernet without a huge investment. The main benefits are less bandwidth-bottlenecks and faster access to the enterprise backbone.

Power-over-LAN

The focus with that new announced switch is the integrated Power-over-LAN Controller which assures the standard compliant (IEEE® Std. 802.3af®) power supply of end devices like IP telephones, IP cameras or WLAN-access points. This makes the connectivity of such data terminal equipment much easier and helps to save costs.

The latest generation of MICROSENS Installation-Switches is integrating the end device power supply on the basis of the IEEE 802.3af standard for all copper data ports.

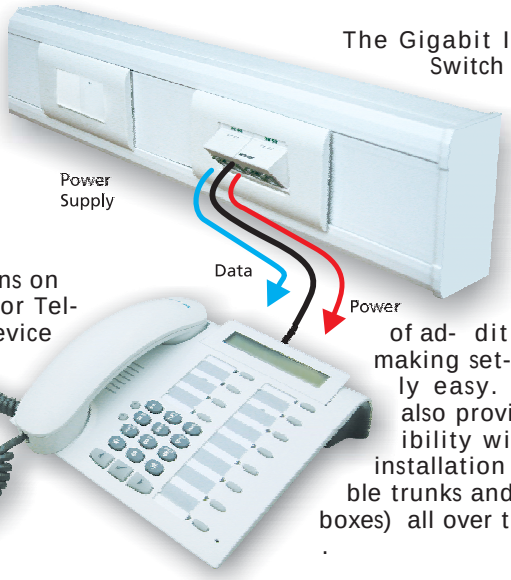
The switch is powered by 48 VDC using either a compact external power supply or a separate in-house 48 VDC-network.

Network Management System

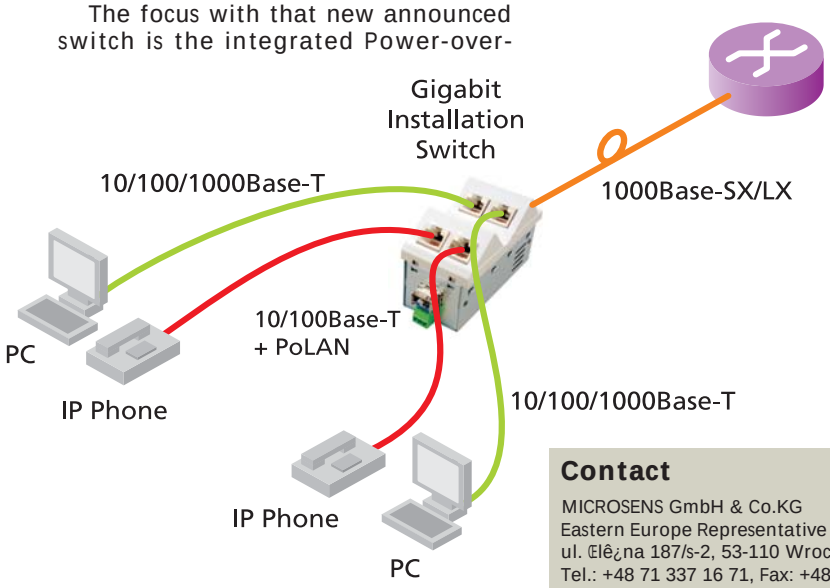
The built-in management agent allows the extensive configuration of port settings, VLANs, data prioritization (Class of Service 802.1p) or Power-over-LAN settings.

The communication runs on top of TCP/IP per SNMP or Telnet. Additionally the Device Manager software package is offered. It allows to manage and administrate large FTTO networks in a comfortable way. For security purpose an optional MAC authentication software helps to keep away unauthorized users from access to central resources.

Fast Snap-In-Mounting



The Gigabit Installation-Switch in 45x45 design needs a minimum of space and allows snap-in installation without the need of ad- ditional tools, making set-up extremely easy. The switch also provides compatibility with standard installation systems (cable trunks and wall mount boxes) all over the world .



Features

- Smallest, on the market available switch for the installation into cable-trunks and subfloor boxes
- 2x 10/100/1000Base-T ports, 2x 10/100Base-TX ports + PoLAN, 1x 100/1000Base-SX/LX uplink
- Tool-free installation
- Integrated Management-agent, SNMP/Telnet/web based
- Manual/automatic configuration of all ports
- Implementation of the full VLAN functionality
- Data prioritization (QoS) for VoIP applications

Contact

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