



High-end products for data communication and Internet access technologies

FMN communications GmbH presents new developments

Nordhausen, January 4, 2005 – The company located in Nordhausen, Germany, with the core competencies radio technology, telecommunications and industrial electronics presents innovative products of multimedia communication based on latest technologies like Wireless Sensor Networks, WLAN and IP telephony at the CeBIT 2005 (hall 11, stand D35).

By means of the Wireless Sensor Networks, you can spontaneously set up intelligent Wireless Sensor Networks that are organising themselves.

Two different sensor modules are available for this purpose. The **alpha[®] WSN SM 230** is for the connection of external sensors and offers analogue voltage and current inputs as well as digital inputs and outputs. Actuators can also be connected to this sensor module. Temperature sensors can be connected to the sensor module **alpha[®] WSN SM 240**.

The values are transmitted by radio to the base module **alpha[®] WSN BM 120** which transfers the data via an RS232 or an USB interface. Further base modules are the **alpha[®] WSN BM 110** with LAN or RS232 interface and the **alpha[®] WSN BM 130** with WLAN or RS232 interface.

By means of the modules, ad-hoc networks can be set up without additional configuration effort. Different network topologies can be realized (point-to-point, point-to-multipoint, mesh network). By means of a network software, every module can also function as repeater.

An intelligent power management and the use of latest hardware components guarantee a long battery lifetime. The modules can as well be supplied with voltage (5.0...30 V DC) externally.

Different parameters of a module, like for example sampling interval, min.-/ max. values, can be changed via the radio interface.

The wireless modules work on the frequency 868 MHz. Client-specific requirements are realized. The modules can be supplied with an internal antenna as well as with a connection possibility for external antennas. The

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range is up to 60 m within buildings and outside buildings in the free field approx. 400 m and may be increased by using repeaters.

Because of the small, compact design and the functionality in a wide temperature range, the modules may be used in various applications. Possible applications are for example the wireless transmission of sensor data, the replacement of RS232 cables, the transmission of data from and to mobile components.

State-of-the-art radio data modems (in a compact and sturdy design), innovative radio sets for voice and data transmission (predestined for the use in the public transport sector), light signalling receivers and long-wave DGPS receivers belong to FMN's range of products.

Besides, the company develops manifold solution possibilities for electronic systems that are adjusted to the individual customer requirements. Almost unlimited application possibilities for GPS data acquisition and transmission, network connection, public transport sector, telecontrol and remote maintenance are made possible.

Development, manufacturing and sale of high-quality products of telecommunications, like payphones, ISDN and special telephones, complete the offer of FMN.

With **alpha[®] IP4μ**, the FMN communications GmbH extends its range of payphones by IP coin- and card-operated payphones. The used SIP technology assures the guaranteed future and independence from carriers. By using cost-saving flat rate offers for telephony by means of voice-over-IP for a payphone, the profit margin of the operator can be raised considerably. There will be no change for the user regarding the operation of such units till now because of the connection of these telephones to the Internet. He won't even notice the change in technology.

With the **alpha[®] payLAN NW**, the FMN communications GmbH extends its range of Pay-HotSpots by a HotSpot that can be integrated into a network, at which you can pay via coins or as well online via T-Pay. The costs for the time unit can be fixed individually by the operator.

Whether in the beer garden, in the club or in the hotel lobby, you can offer HotSpot services against simple payment without additional costs for personnel by integrating the **alpha[®] payLAN NW** into an existing LAN. No new DSL connection is required for the operation of the **alpha[®] payLAN NW**.

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alpha[®] call&surf – The HotSpot-telephone is a combination of ISDN-club telephone and Pay-HotSpot with integrated DSL modem. In addition to an Internet access via WLAN and DSL that has to be paid directly, you can realize usual telephone services in high quality. The payment for the use of the different services can be made directly by the user with coins, the payment for the online use can additionally be made via T-Pay.

Up to 16 Internet users can be administered simultaneously at the WLAN Pay-HotSpots **alpha[®] call&surf** or **alpha[®] payLAN NW** in stand-alone operation.

The WLAN Pay-HotSpots of FMN are also available in versions for the operation at a background and management system that was especially developed for this purpose. Therewith, other payment systems like credit card etc. may be used for the payment in addition to coins. An easy, convenient and centralized monitoring and control of the HotSpots is made possible for the user by means of the background and management system.

You can get further information about FMN and its products in the Internet under <http://www.fmncom.com>. All press releases are available for download under http://www.fmncom.com/presse/frame_presse.html.

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