RadioLinx Industrial Hotspot 802.11abg Access Point/Repeater/Client

Bakersfield, Calif, September 3, 2007 ― ProSoft Technology has added its new 802.11abg Industrial Hotspot to the growing line of RadioLinx products. The RLX-IHW functions as a wireless access point, repeater, or client and is designed for global installations. It offers high-speed wireless Ethernet communications including EtherNet/IP, Modbus TCP/IP, and DNP over Ethernet for linking automation systems, Ethernet I/O, video cameras and plant network access for mobile workers. The RLX-IHW utilizes Orthogonal Frequency Division Multiplexing (OFDM) for multi-path interference rejection, RF multicast packet filtering, and dual frequency bands which make it the ideal solution for demanding, high speed industrial networks needing reliable performance.

Security: WPA2 AES Encryption
For high security applications, the RadioLinx 802.11abg Industrial Hotspot offers WPA2 (802.11i) Advanced Encryption Standard (AES-CCM) encryption and MAC ID Filtering.

IGMP Snooping
The RLX-IHW is equipped with RF-based Internet Group Management Protocol (IGMP) Snooping, a tool which allows multicast filtering at the *wireless* level, so that the transmitting radio, or producer, only transmits needed information to the receiving radio, or consumer, thus preventing crowding over the air from the re-broadcasting of data. The RLX-IHW at the consumer then sends a reply back to the RLX-IHW at the producer confirming receipt of data, and retransmits as necessary to minimize loss of data.

OFDM Modulation
The 802.11abg Industrial Hotspot uses OFDM modulation for excellent noise immunity at maximum speeds. This technique distributes data over multiple carriers which are assigned individual frequencies, so that each carrier only sees its own, translating into less distortion or interference.

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Product Highlights:

- Dual frequency band (2.4 GHz & 5 GHz)

- OPC server included to embed diagnostics in HMI clients

- Programmable RF power output to meet regional regulations

- Support for high speed applications like video and EtherNet/IP I/O

- UL1604 Class 1, Div 2 approved for hazardous environments

- Self-healing, multiple master network architecture

- Small form factor, extruded aluminum case and DIN-rail mountable

- Supports distances of up to 5 miles (8 kilometers) at 54 Mbps (or 15-20 miles with amplifier)

The RadioLinx Industrial Hotspot 802.11abg brings real-time wireless access for the most demanding, hazardous and time-critical applications. They are a cost-effective wireless solution for plant and field engineers who need real-time access to remote or mobile equipment. The radios allow users to reduce costs including those associated with downtime, labor and installation, and leased-line or wireless service fees.

Possible use cases include moving equipment such as turntables, drums, gantry cranes, stacker/reclaimers, or even automated guided vehicles, or where industrial data applications need to transmit VoIP or video wirelessly.

ProSoft Technology: Where Automation Connects

ProSoft Technology specializes in the development of communication solutions compatible with the large automation supplier's controllers such as Rockwell Automation and Schneider Electric. The primary focus is to provide connectivity solutions that link dissimilar automation products. ProSoft Technology's offerings consist of four primary product families: Protocol and network connectivity modules known as inRAx for Rockwell Automation and ProTalk for Schneider Electric, stand-alone gateways, protocol converters, and wireless gateways known as ProLinx, and industrial serial and Ethernet wireless modules known as RadioLinx.

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