MOORE INDUSTRIES *The Interface Solution Experts*

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FOR REVIEW

WNM Wireless Network Module Provides an Accurate and Reliable Wireless Communications Link Between Remote Field Sites

NORTH HILLS, CA—The new WNM Wireless Network Modem from Moore Industries is the most accurate and reliable solution for sending process signals between remote field sites. The WNM provides a low-cost wireless communications link between field sites that are in rugged or impassable terrain, with a single unit transmitting for up to 30 miles and the ability to act as a repeater for a virtually unlimited transmission range.

The bi-directional WNM employs Spread Spectrum Frequency Hopping technology to avoid interference problems caused by crowded radio spectrums. This technology allows multiple radio networks to use the same band while in close proximity. Operating at standard operating frequencies of 902-928MHz or 2.4-2.4835GHz, the WNM does not require a regulatory license and can typically be installed without performing costly RF site surveys.

When it is set in the Smart Switch Ethernet (SSE) mode, the WNM enhances the speed and reliability of data packet transmission by determining the most efficient path of broadcast (including direct to a single radio or to some or all radios in a network) on a packet-by-packet basis.

The WNM provides an ideal companion for the versatile NCS NET Concentrator System®, as well as other SCADA and distributed I/O systems. WNM models are available for data communications networks that use Ethernet and serial (RS-485) communications. In each WNM network, one module is set as a Master. This can be set to communicate with a single WNM remote unit in a Point-to-Point architecture or multiple WNM remote units in a Point-to-Multipoint architecture.

WNM modules are designed for long-distance data transmission; 902-928MHz units can transmit up to 30 miles, while 2.4-2.4835GHz units have a transmission range of up to 15 miles. The range can be extended indefinitely by using multiple WNM units as repeaters to relay signals. This also allows for the creation of WNM networks when a direct line of sight cannot be established.

The WNM is easy to install and use, as it can be factory-configured to fit user specifications before being shipped. In addition, free PC configuration software allows end users to perform on-site configuration, parameter changes and add WNM modules to a network.

The WNM utilizes 128-bit AES (Advanced Encryption Standard) encryption, 32-bit CRC (Cyclic Redundancy Check) error detection and ARQ (Automatic Resend Query) for robust and secure communications. The industrial DIN-rail mount metal enclosure also ensures that the WNM can be used in rugged environments, including ambient temperatures from -40°F to 167°F (-40°C to 75°C) and relative humidity of 5 to 95 percent.

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The WNM data sheet is available for download at http://miinet.com/products/data_sheets/wnm.pdf, while more information on Moore Industries' line of Distributed I/O and Data Communications Systems is available at http://www.miinet.com/products/sg_distributed.shtml.

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