

**For Immediate Release / October 1, 2005**

*(Santa Clara, CA, Charleston, SC)*

**PCN Technology, Inc. introduces its iPLC™ Modbus Bridge module for OEM and ODM Customers Ensuring Mission Critical Wireless Solutions Leveraging Existing Power Distribution Systems**

**PCN Technology, Inc.** is pleased to introduce the first iPLC™ Modbus Bridge of its kind. The iPLC™ Modbus Bridge is an industrial power communication technology created for the hardened and harsh environments of Industrial and Heavy Commercial OEM Applications.

PCN has worked closely with global OEM and ODM customers and partners from around the world to develop real world industrial control, communication, networking applications that satisfy multiple control, communication and energy management needs. The PCN solution leverages the existing power distribution system to provide OEMs with an alternative wireless solution becoming a network extension and convergence solution. Certain added benefits include, but not limited to; reduction and elimination of wire, harnesses, bulk, weight, heat, and costs.

PCN's solutions provide iPLC™ technology, Flash Program/Data self programming, I2C Master/Slave, Ethernet, RS-232, RS-485, CAN, Modbus, Devicenet, Profibus, USB, and SPI support on module. Additional Networks are also supported. At the company's forefront of products is the latest in plug-and-play I/O sub-systems for legacy and future products and systems. PCN products ensure security and reliability across the enterprise and within each device.

**Product Description**

The PCN iPLC™ Model EC-2504 supports up to 8 Mbps and is an embedded open protocol Conducted Medium Network Convergence Communication System.

Current implementation of the application layer consists of support for Modbus 2Wire/4Wire RS-232, RS-422, RS-485, or direct TTL UART interface to a microcontroller system. Standard baud rates supported are 1200, 2400, 4800, 9600, 14.4K, 19.2K, 28.8K, 38.4K, 57.6K, 115.2K, 230.4K, 250K Baud.

The conducted medium (powerline) system communicates (in the robust mode) on 120 redundant communication channels in order to provide maximum reliability and flexibility. Multiple Socket and Network MAC Addressable Configurations can also be supported to provide compatible communication at up to 4 Mbps on the conducted medium with the EC2504.

The EC2504 Modbus Convergence Layer supports RTU, ASCII, and proprietary iPLC ASCII Compression mode. The iPLC Modbus modes are independent and interchangeable regardless of Baud Rate, RTU vs. ASCII and physical hardware interface type.

For example, an ASCII Master Module can speak on RS-232 to a Slave that is 2 Wire RS-485 in RTU mode (or any other combination). Current support for Industrial Ethernet - IP Addressable communication with programmable multi-protocol support (i.e. Modbus TCP/IP, etc.) are in process.

PCN has focused the company's products for increasing security, reliability and performance while reducing power consumption in control, automation, computing and converged devices. PCN products use the proprietary iPLC™ network protocol allowing mission critical industrial OEM & ODM customers the ability to have an "alternative wireless solution" without the reliability and security issues of traditional wireless in a mission critical industrial environment.

**PCN Technology, Inc.**

[www.pcntechnology.com](http://www.pcntechnology.com)

**Santa Clara, CA: 408-850-7172**

**Charleston, SC: 843-416-1158**