

EMBEDDED SOLUTIONS

PCN Technology, Inc. provides customers and partners with complete iPLC Power Line communication solutions for embedding or adapting to existing and new systems.

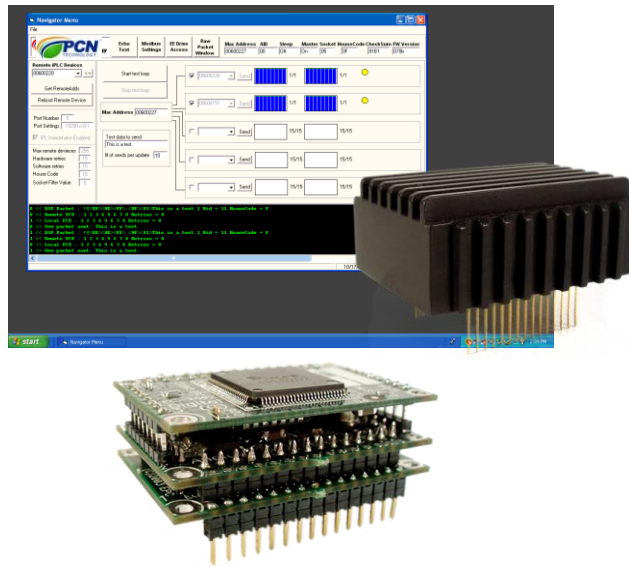
PROCESS

Provide Information, Samples and/or Simulations on your application and PCN will work with you to provide you an application example tailored to your needs, delivered and demonstrated for your testing and review.

DELIVERY

In Person anywhere worldwide with in person hardware and software support.

OEM Embedded Grid MicroCircuits™ (MVP) Market Validation Prototype



- The **PCN MVP – Market Validation Prototype** is more than a demo-kit, it is a direct prototype application example of PCN's Grid MicroCircuits™ highlighting key strengths of our integrated technology solution tied to your equipment & specifically your intended applications.
- The **PCN MVP** delivery is in person around the world so that key individuals within your organization can view, learn and ask questions with PCN staff.
- **FREE.** The cost of the **PCN MVP** is reimbursed upon orders from your company.

PCN offers a new generation of I/O subsystem components for mission critical communication, networking and energy management applications.

PCN products integrate into next generation systems or can become add-ons to existing and legacy products.

PCN products use the physical copper power infrastructure of products and systems as the backbone, bridge and interface to provide seamless communication and networking that is secure, reliable, robust and scalable.

For complete data convergence, PCN products can be configured into a mesh network, star, ring, P2P, or other.

PCN nodes can be interconnected between traditional IP networks and intermixed with low level network protocols and hardware interfaces.

The Base PCN (iPLC) Industrial Powerline Communication technology is the foundation of all PCN components. The nodes are 16/32 channel cross-phase conducted medium communication modules providing delivery of data for mission critical applications. Traditional components are powered by a single +3.3V or +5DC power supply and connects to the power distribution system or subsystem communicating up to millions of nodes.

Each node is assigned unique MAC addresses automatically on the network for identification, self-management, self-healing, adaptability and mesh networking. Nodes are encrypted internally with 256 Bit Encryption with additional room for specialized encryption algorithm uploads.



PCN Technology

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Features and Benefits

TECHNICAL SUPPORT

In Person, WebEx, and via Telephone, PCN Application Engineers are available to meet your needs.

ZERO DOWNTIME

PCN Market Validation
Prototypes can show you our technology solutions on your own systems, without requiring any system or product downtime.

TURNKEY SOLUTIONS

All of PCN technology products are turnkey embedded solutions for integration or adaptability providing you accelerated design-in solutions.

For more information on any of our products or services please visit us on the Web at:

www.pcntechnology.com



With each node having its own MAC address, PCN networks create intelligent addressable systems in order to communicate and control data locally or across the enterprise. True ubiquitous networks can also be obtained with existing and new systems through seamless bridging and interfacing to existing technologies such as Zigbee, RFID, Bluetooth and other 802.xx.

Communication to each node is bi-directional and full –duplex. The network supports over 60 redundant data paths with each data packet throughput at 250Kbps per sub channel. PCN utilizes 16 and 32 channels. In Robust mode, a single network module obtains over 99.999% coverage at 19.2K for critical applications.

* PCN products meet standards and requirements while providing flash program/Data self programming, I2C Master/Slave, Ethernet, RS-232, RS-485, CAN, Modbus, Modbus RTU, Devicenet, Profibus etc., USB, and SPI support on module. Additional networks are also supported. The local communication interface can be standard UART (RS-232) Compatible with 5V TTL levels. This provides simple connections to Microcontrollers and connections.

MVP Technical Information

- **Serial, UART, SPI, I2C, USB, Ethernet, Parallel, RS-232, RS-485, CAN, Modbus, Modbus RTU, TCP, etc.**
- **100's Kbps – 10Mbps**
- **OFDM with 16 bit hardware CRC and packet level authentication**
- **Sign NDA's, Itemize Proposed needs, Receive Application Examples, Products or Simulators**
- **PCN then applies its products and brings to your lab, HQ to demonstrate and leave for testing and validation**

SERVICES AVAILABLE

- **Technical Support**
- **Installation and Setup**
- **Application Support**
- **Hardware Support**
- **Software Support**
- **Warranty**



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