

PLC Multi-Voltage Gateway Module

patent pending

What is Power Line Carrier Technology?

Power Line Carrier Technology or PLC for short, transmits digital data onto the vehicles power line and allows tractor to trailer communications without adding any new wires.

Allows any wireless or OBC on the tractor or trailer, with a serial/J1708 interface to receive or transmit PLC messages.

HEGEMON ELECTRONICS, INC.

35464 Mound Road
Sterling Heights, MI
48310
U.S.A.

Phone: 586-977-6541
Fax: 586-977-9096

Our web address:
www.hegemonelectronics.com

E-mail:
rays@hegemonelectronics.com

The PLC4TRUCKS PLC Gateway module (PLCG) provides Bi-Directional communications for RS232, J1708, CanBus or TTL equipped devices to access the PLC messages that reside on the Tractor and Trailer ABS wire. The module can directly read and program the PLC Identifier/Tag and thus allow wireless devices to read Tractor or Trailer IDs and establish hook and unhook



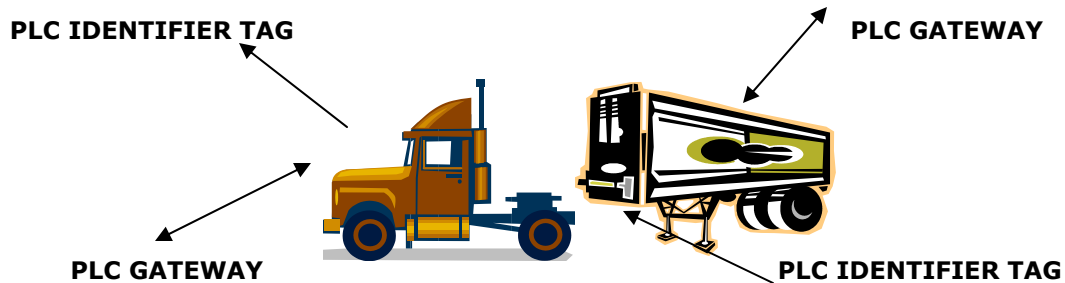
Features of PLC Gateway

- Bidirectional communications on the PLC Bus
- Bidirectional communication on the Host interface
- 10 to 32 VDC Operating Voltage
- CanBus, RS232 or J1708 or RS485 or TTL Host interface
- Automatic ignition on detection
- One digital output
- One digital active low input
- FEEDTHRU or FILTER operating modes (Host selectable)
- Theft Indicator/Trigger

MV Gateway Specifications:

- | | | |
|---------------------------------|-----------------------|-----------------------|
| • Supply Voltage: 10 to 32 VDC | Operating Temperature | -40° to 85° C |
| • Reverse Battery Protection | Storage Temperature | -40° to 85° C |
| • Load Dump Protected | Weight | 3.1 oz. (87 g) |
| • Reverse Transient Protection | Physical Dimensions | |
| • Typical Supply Current – 36mV | | 3.25x1.98x0.60 inches |

Typical Application of the PLC Multiple Voltage PLC Gateway



PIN OUTS FOR J1708 VERSION

PIN 1 = J1708 A	PIN 5 = DIGITAL OUTPUT
PIN 2 = J1708 B	PIN 6 = PLC SIGNAL
PIN 3 = NO CONNECT	PIN 7 = POWER INPUT
PIN 4 = DIGITAL INPUT	PIN 8 = GND

PIN OUTS FOR RS232 VERSION

PIN 1 = TX	PIN 5 = DIGITAL OUTPUT
PIN 2 = RX	PIN 6 = PLC SIGNAL
PIN 3 = FLOW CONTROL	PIN 7 = POWER INPUT
PIN 4 = DIGITAL INPUT	PIN 8 = GND

Part # 2828: RS232 Multi-Voltage Gateway

Part # 2829: J1708 Multi-Voltage Gateway

Part # 3110: J1939 Multi-Voltage Gateway

Applications

- Positive trailer and/or tractor identification
- ABS Warning Information
- Trailer ID from trailer ABS
- Brake Stroke Indicator
- Reefer Temperature
- Reefer control from Cab
- Trailer Door Status
- Theft Indicator/Trigger

About Hegemon Electronics

Since 1994, Hegemon Electronics has offered complete design services for the OEMs. We offer complete turnkey design services from conception through production. We specialize in the heavy-duty automotive market but are versatile enough to take on other projects such as test equipment and other areas. Here are some services offered by Hegemon Electronics:

- Analog and Digital System Design
- Embedded Electronic System Designs
- Software Development in C/ C++ and Visual Basic
- PCB Layout
- Test Equipment Design
- EMC Compatibility Solutions
- Complete System Designs
- Product Manufacturing