

# BridgeWay™ Profibus to J1939 Gateway (AB7614)

The BridgeWay Profibus to J1939 Gateway enables a Profibus-DP Master to read and write J1939 network data. The AB7614 operates simultaneously as a Profibus-DP Slave node on a Profibus network and a CAN node on a J1939 network. The module exchanges data from either network, based on a user defined configuration. Pyramid Solutions provides a free Windows-based configuration tool that allows the user to map J1939 parameter (PGN) data into the module's input and output tables, accessible by the Profibus Master as I/O data over the Profibus-DP network.

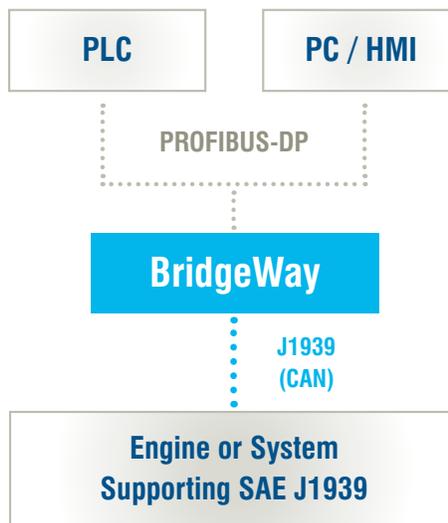
## Use Case Examples

- A low-cost interface used on oil and gas equipment, marine vessels, locomotives, recreational vehicles, pumping stations, generators, engine test cells and other mobile and stationary equipment. Use to read parameters (data contained in configured inbound PGN messages) from a Programmable Logic Controller (PLC), HMI or PC and/or write data onto the J1939 network for control and management (data populated in configured outbound PGN messages).
- An on-vehicle gateway used to interface a J1939 network to an onboard industrial automation based control and monitoring system or HMI

## Key Features

- A configurable gateway that allows the user to configure the specific J1939 PGN messages to be transmitted or received by the module and the data within a PGN that is required for the user's application
- Supports SAE J1939 vehicle protocol over CAN and Profibus -DP (Slave) industrial automation protocol.
- Configuration via free Windows-based software tool
- Supports Flash field upgrades
- LED network and module status indicators
- Includes DIN rail mount
- Rugged extruded aluminum enclosure
- Brand label/OEM options
- Support for J1939 CAN baud rates of 125K, 250K and 500K
- J1939 diagnostic monitoring with DM-1 and DM-2 message support
- Monitor up to 120 J1939 PGNs and transmit up to 100 PGNs

BridgeWay network gateways and interfaces provide low cost, high performance, and flexible connectivity solutions for a wide range of applications, including industrial automation and vehicle networks. Designed as a modular platform with configurable hardware and software, BridgeWay products can be adapted to meet your specific needs.



## Target Industries and Application Examples

- Oil and Gas Equipment
- Marine Vessels
- Locomotives
- Commercial, Construction, Agricultural and Recreational vehicles
- Electric Power Generation (Diesel GenSets)
- Water and Waste Water Systems
- Engine Testing and Validation
- Monitoring/control systems that require J1939 data and control

## Specifications for Part No. AB7614

- Mechanical dimensions: L = 4.96" (126mm); W = 4.30 " (109mm); H = 1.65" (42mm)
- Approximate weight: 16 oz
- Operating voltage: 11 – 32 VDC
- Current requirements: 105-110 mA at 24 VDC
- Operating temperature: 0 - 70° C
- EMC compliance: EN50081-2 and EN50082-2
- Certifications: CE and cULus
- UL certification: E203225, Listed 67AM, UL-1604 Class 1, Div 2, GP A, B, C, D, Temp Code T4
- ATEX certification: ATEX 135419, II 3 G, EEx nL IIC T4, DEMKO 03
- Mechanical rating: IP20 / NEMA 1

## Optional Accessories

### AB7614 Configuration Kit (Part No. AB7614-CFG)

The kit contains the following materials:

- 3 meter 9 to 9 pin serial cable used to configure the module with our BWConfig software
- Mini CD holds latest version of AB7614 user manual, BWConfig software, application notes, sample configurations and GSD file for use with Profibus Master configuration software

**Please visit our web site to get the very latest firmware updates for Profibus to J1939 Gateway (AB7614)**

## Get up and running with BridgeWay Services

Need help designing a network solution? Configuring or integrating your BridgeWay? We offer consulting, development and system integration services, including custom software development, to help you achieve your specific application requirements.

Flexible BridgeWay gateways and interfaces offer a significant range of functionality and are used in a wide range of applications. Businesses that want to make the most of these capabilities, or even expand on them, can take advantage of our *professional services* expertise, especially when schedules are tight or custom functionality is required. We can create a solution package based on your specific needs, ranging from remote hourly support, to onsite services or turnkey custom development. BridgeWay services include:

- BridgeWay solution network design, installation and configuration assistance
- BridgeWay and network training
- Remote support/consulting services (scheduled hourly services via phone or email)
- Onsite services (fixed price or hourly)
- Custom BridgeWay enhancements and PC software applications

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### NETWORK CONNECTIVITY GROUP

For more information, please contact  
**Glenn Beal:** +1 248 549 1200 X5791  
gbeal@pyramidsolutions.com