



BridgeWay™

**Ethernet to J1939
Gateway**



Seamless connectivity & control.

 **PYRAMID SOLUTIONS**

TRANSPARENT MONITORING AND CONTROL

TYPICAL APPLICATIONS

Truck & Bus

Marine

Mining

Construction

Agriculture

Power Generation

Oil & Gas



Simple. Reliable. Cost-effective.

Seamless Ethernet to J1939 connectivity

The BridgeWay Ethernet to J1939 Gateway is a compact device that solves a mission-critical problem: bridging the gap between J1939 vehicle networks and monitoring and control systems. The unit enables communication of critical performance and fault data, for real-time monitoring, automation and operator control.

BridgeWay is designed for use across a wide variety of applications and industries. These include heavy-duty trucks, public transit vehicles, marine vessels, construction, agricultural equipment and stationary power generation systems.



Sample BWConfig software screen

How it works. Seamlessly performing both protocol conversion and physical connectivity, BridgeWay uses an easily configurable internal table to map data streams linking monitoring and control systems to J1939 devices. This table is configured using Pyramid Solutions' BWConfig software, an intuitive Windows-based software tool. Once configured, data is accessed by an EtherNet/IP Scanner or Modbus/TCP Master through BridgeWay using standard CIP or Modbus/TCP read and write commands.

Unlike other devices that are statically configured and limit the number and types of data accessed, BridgeWay is configurable to enable access to as much or as little data as is required for your unique application.

Easy to integrate. Designed especially with OEMs in mind, the Bridgeway is designed to integrate easily and operate reliably in virtually any Ethernet to J1939 application. Ruggedly built, the device is DIN rail mountable and is adaptable to a wide variety of physical environments.

Easy to use, install and configure, the BridgeWay provides seamless, transparent Ethernet to J1939 connectivity. Simply. Reliably. And cost-effectively.

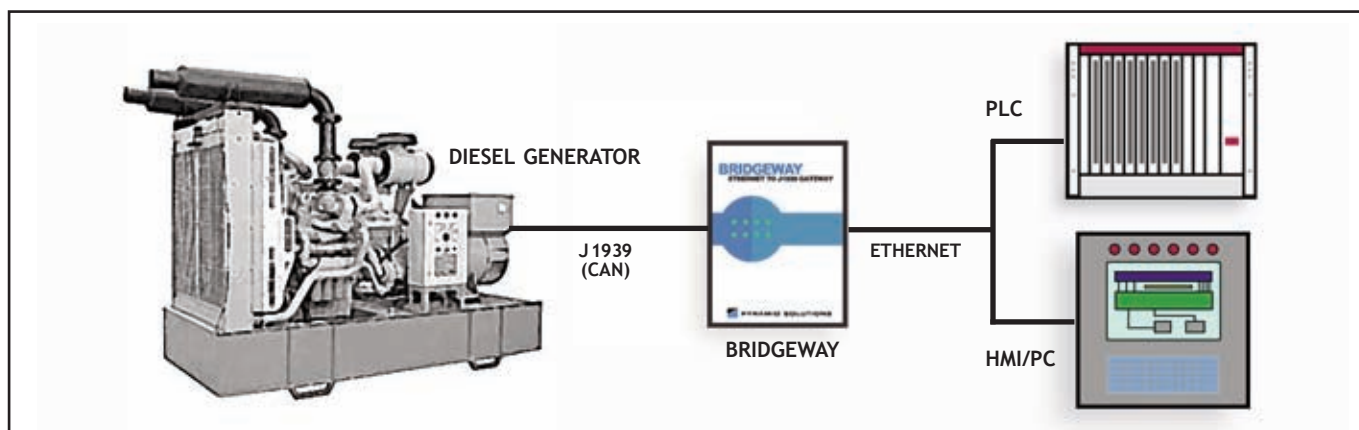


Key benefits

- Highly configurable and flexible
- Feature-rich, cost-effective solution
- Replaces higher cost computer gateways
- Rapid installation and configuration
- Low risk, reliable operation
- Superior product support

Key features

- Ethernet to J1939 network connectivity
- SAE J1939 compliant including transport protocol for transmission and reception of large messages
- Configuration via a Windows-based PC software tool
- LED network and module status indicators
- DIN rail mountable rugged aluminum enclosure



BridgeWay Ethernet to J1939 Gateway

PROTOCOLS SUPPORTED

Ethernet

- EtherNet/IP Adapter
- Modbus/TCP Slave
- Overall module, Ethernet and J1939 status and diagnostics accessible through CIP assembly and Modbus/TCP addressable registers
- Ethernet 10/100 Mbps

J1939

- Transmission and reception of all types of J1939 messages, including PDU1, PDU2, broadcast and destination specific.
- Complete network address management including address claim, protection, and yield on higher priority conflict.
- Network address can be self-configurable over a range of addresses.
- J1939 Transport Protocol for transmission and reception of large messages (9 - 1785 bytes). Both connection based (RTS/CTS) and broadcast (BAM) are supported.
- Configurable CAN bus-off reset option will reset the network interface and attempt to return to online when a CAN bus-off condition is detected.

Specifications

Mechanical Dimensions:	L 126 mm, W 109 mm, H 42 mm
Operating Voltage:	12–30 V DC
Current Draw:	24 V DC, 300 mA typical
Temperature Rating:	
Operating:	0°C to 70°C
Storage:	-25°C to 85°C
Humidity Rating:	5% to 95% (non-condensing)
Certifications:	CE, C-UL US Listed
Mechanical Rating:	IP20 / NEMA 1
Part No.:	AB7645

