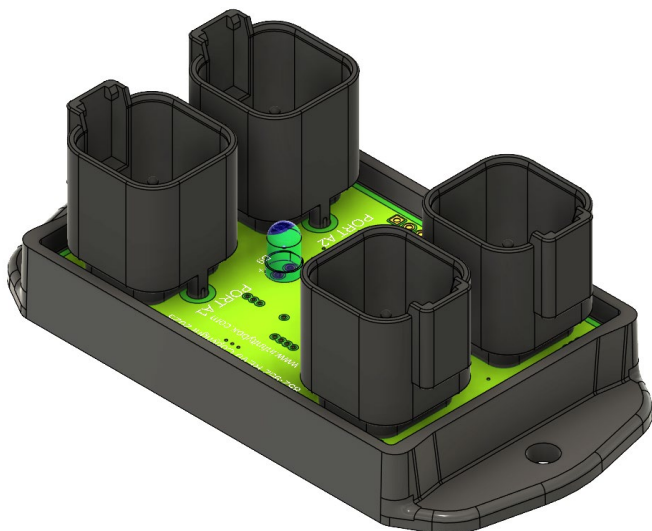


Infinitybox CAN Gateway (P/N 852-952)



Product Description:

The Infinitybox CAN/CAN FD Bidirectional Gateway is a high-performance, harsh-duty-grade protocol converter designed for seamless communication between different CAN networks in commercial vehicles and automotive applications. This gateway provides flexible, reliable translation between CAN networks operating at different speeds and protocols.

Key Features

- Dual Independent CAN Channels
- Bidirectional message forwarding between any two CAN networks
- Flexible protocol support: Classic CAN (up to 1,000 kb/s) and CAN FD (up to 5 Mbps)
- Independent configuration for each channel - mix and match protocols and speeds
- Hardware-accelerated filtering with 32 filters per channel for intelligent message routing
- Robust Commercial/Automotive Design

Applications

- Commercial Vehicles: Bridge legacy CAN systems with modern CAN FD networks
- Industrial Automation: Connect equipment from different manufacturers
- Automotive Testing: Protocol analysis and network debugging
- Fleet Management: Add modern telematics to older vehicle platforms
- Agriculture/Construction: Integrate new implements with existing vehicle networks

Electrical Features:

- Input Voltage: 7 to 32 Volts
- Dual Independent CAN Channels
- Connectors Per Port: 2
- Steady-State Current Draw: 25 mA nominal
- Operating Voltage Protection: Reverse Polarity and Load Dump Protected

Communication Specifications:

- Communications Protocol: CAN Open & J1939
- J1939 Data Rate Options:
 - Classic CAN: 250 / 500 and 1,000 kb/s (User selectable)
 - CAN FD: Up to 5 Mb/s
- Standard PGNs: User configurable via EEPROM
- Heartbeat LED: Indicates Network Health

Connector Specifications

- Mating connector: Amphenol ATP04-6S
- Connector Pinout:
 1. Vehicle B+
 2. Ground
 3. Control Voltage
 4. CAN High
 5. CAN Low
 6. Cable Shield

Configurability Specifications

- All parameters set via J1939 messages
- Gateway can pass CAN Open and J1939 frames
- Data Rates for Ports A & B can be set to 250, 500 or 1,000 kb/s
- Classic CAN or CAN FD can be assigned to Ports A & B
- Specific CAN messages can be whitelisted on both Ports A & B for CAN filtering

Material Specifications

- Enclosure: Sealed potted module
- All Materials UL94V0

Environmental Specifications

- Operating Temperature Range: -40 C to 85 C
- Ingress Protection: IP67
- Vibration: Automotive grade
- All materials tested to meet automotive chemical exposure, salt spray and salt fog

Infinitybox CAN Gateway Dimensions (In Millimeters)

