

DCAN250 - CAN over Battery Power Line Communication

Description

The DCAN250 is a VLSI device for Multiplex CAN bus communication over battery Power Lines (PLC). It is a complete transceiver solution for CAN bus alternative physical layer between for a wide range of vehicular modules such as the steering wheel, doors, sensors, displays, Internet/navigation computer, security, control panel, etc.

The device operates as a smart DC - PLC transceiver for CAN bus controllers. The DCAN250 contains a modem, a channel coder/decoder (ECC), a communication controller, and a message-buffered host interface to overcome the hostile environment of vehicle battery lines. A Sleep Mode reduces the power consumption when no bus communication exists. The DCAN250 is based on the DC-BUS technology, that reduces harness weight whilst enabling flexible, quick and simple installation.

Applications

- Vehicle electronics
- Car audio control
- Vehicle data surveillance
- Mobile computing
- Mobile phone interface
- Security systems
- Internal communication

Features

- Noise robust up to 250Kbps communication over a battery power line.
- Reduces harness weight, eliminates complex cables and installation.
- Flexible installation operates over 12V to 42V battery lines.
- Receives and transmits CAN bus protocol.
- Peer to Peer, up to 16 devices, multi-user packet communication.
- Opens new dimensions for car electronics design.
- Sleep Mode for low power consumption.

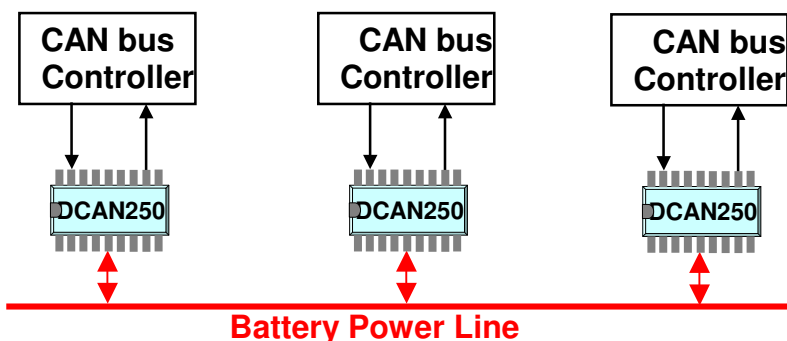


Figure 1 - Typical DCAN250 System

Characteristics

Packet data:	250Kbps
Modulation method:	DQPSK
Collision resolution:	Built in
Error correction codes:	Built in
Power save mode:	Built in
Packet size:	User defined
Interface:	CAN

