YAMAR Electronics Ltd

Preliminary Information

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.**

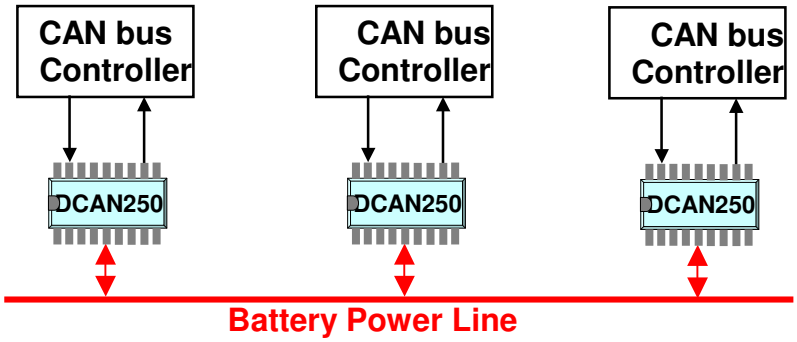
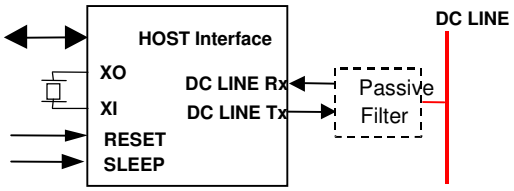


Figure 1 - Typical DCAN250 System

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



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