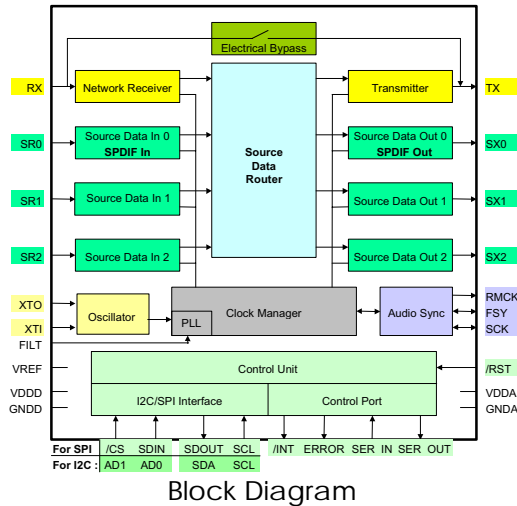


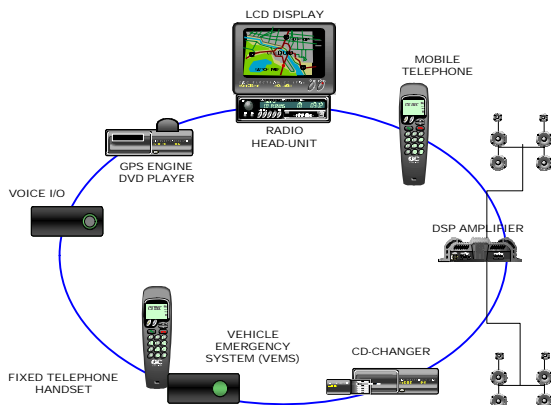
Conan[®] OCC8001-02



- Fully compliant with D2B Mode0 Protocol
- 4.2336Mbps source data rate (equivalent to 3 x 16bit stereo audio channels)
- Integration of source and control data
- Multiple source data channels
- SPDIF audio port
- I2C and SPI compatible control port
- Flexible source data routing
- Implements all low-level communication tasks:
 - Communication Protocol (sub-frames, synchronisation,...)
 - Communication Management (CRC, ACK, NAK, retries,...)
 - Transparent channels
- Easy hardware and software implementation
- Few external components required

THE D2B PROTOCOL

The Digital Data Bus (D2B) is a networking protocol for automotive multimedia data communication integrating digital audio, video and other high data rate synchronous or asynchronous signals, with the control data for network management protocols and APIs. The protocol enables robust single cable interconnection and compatible interoperability of in-car AV multimedia and ITS devices, such as Radio Head Units, CD Changer, CD-ROM, GPS Navigation, Voice Control, Car Telephones, TV and others.



CONAN[®] - OCC8001-02

The OCC8001-02 transceiver is a pin compatible successor of the OCC8001-01 with identical functionality, featuring decreased power and reduced EMI

The CONAN[®] is an advanced CMOS device which enhances network design by integrating source data routing and communication protocol management. handles multiple source data channels via common serial interface standards,

CONTROL PORT

Device control is handled via the control port, which can be configured as either an I2C or SPI compliant interface. The choice of interface is specified during hardware resets.

NETWORK INTERFACE

Data is organized in frames which are transmitted at the system sampling frequency. Frames contain source and control information and are further divided into sub-frames of 8 bytes fields. At the physical level, data is transferred as serial bits with bi-phase encoding.

