

**A<sup>2</sup>B BUS FEATURES**
**Line topology**

Single master, multiple slave

Up to 15 m between nodes and up to 40 m overall cable length

**Communication over distance**

Synchronous data

 Multichannel I<sup>2</sup>S/TDM to I<sup>2</sup>S/TDM

Clock synchronous, phase aligned in all nodes

Low latency slave to slave communication

 Control and status information I<sup>2</sup>C to I<sup>2</sup>C

GPIO over distance

Phantom power or local power slave nodes

Configurable with SigmaStudio graphical software tool

Qualified for automotive applications

**ADDITIONAL TRANSCEIVER FEATURES**

 Configurable as A<sup>2</sup>B bus master or slave (AD2425W)

 I<sup>2</sup>C interface

 8-bit to 32-bit multichannel I<sup>2</sup>S/TDM interface

 I<sup>2</sup>S/TDM/PDM programmable data rate

Up to 32 upstream and 32 downstream channels

PDM inputs for 4 high dynamic range microphones

**APPLICATIONS**

Automotive audio communication link

Active noise cancellation

Microphone arrays for hands free and in car communication

**GENERAL DESCRIPTION**

The Automotive Audio Bus (A<sup>2</sup>B<sup>®</sup>) provides a multichannel, I<sup>2</sup>S/TDM link over distances of up to 15 m between nodes. It embeds bidirectional synchronous data (for example digital audio), clock, and synchronization signals onto a single differential wire pair. A<sup>2</sup>B supports a direct point to point connection and allows multiple, daisy-chained nodes at different locations to contribute or consume time division multiplexed channel content. A<sup>2</sup>B is a single-master, multiple-slave system where the transceiver chip at the host controller is the master. The master generates clock, synchronization, and framing for all slave nodes. The master A<sup>2</sup>B chip is programmable over a control bus (I<sup>2</sup>C) for configuration and read back. An extension of this control bus is embedded in the A<sup>2</sup>B data stream, which grants direct access of registers and status information on slave transceivers as well as I<sup>2</sup>C to I<sup>2</sup>C communication over distance.

Table 1. Product Comparison Guide

| Feature                           | AD2421W | AD2422W | AD2425W |
|-----------------------------------|---------|---------|---------|
| Master capable                    | No      | No      | Yes     |
| Functional TRX blocks             | A only  | A + B   | A + B   |
| I <sup>2</sup> S/TDM support      | No      | No      | Yes     |
| PDM microphone inputs             | 4 mics  | 4 mics  | 4 mics  |
| Maximum node to node cable length | 15 m    | 15 m    | 15 m    |

**FUNCTIONAL BLOCK DIAGRAM**

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# Automotive Audio Bus A B Transceiver Data Sheet

**Augusto Humberto Vairo Titarelli**



**Automotive Audio Bus A B Transceiver Data Sheet:**

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## Unveiling the Magic of Words: A Report on "**Automotive Audio Bus A B Transceiver Data Sheet**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Automotive Audio Bus A B Transceiver Data Sheet**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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