

A²B 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 I²S/TDM to I²S/TDM

Clock synchronous, phase aligned in all nodes

Low latency slave to slave communication

Control and status information I²C to I²C

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 A²B bus master or slave (AD2425W)

I²C interface

8-bit to 32-bit multichannel I²S/TDM interface

I²S/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 (A²B[®]) provides a multichannel, I²S/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. A²B 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. A²B 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 A²B chip is programmable over a control bus (I²C) for configuration and read back. An extension of this control bus is embedded in the A²B data stream, which grants direct access of registers and status information on slave transceivers as well as I²C to I²C 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 ² 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

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Automotive Audio Bus A B Transceiver Data Sheet:

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Automotive Audio Bus A B Transceiver Data Sheet**

In a global inundated with screens and the cacophony of instant communication, the profound power and mental resonance of verbal beauty usually fade in to obscurity, eclipsed by the constant barrage of sound and distractions. Yet, situated within the lyrical pages of **Automotive Audio Bus A B Transceiver Data Sheet**, a interesting perform of fictional beauty that pulses with fresh feelings, lies an unique trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, this interesting opus instructions readers on a psychological odyssey, delicately revealing the latent potential and profound influence embedded within the delicate web of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is main themes, dissect their interesting writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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Table of Contents Automotive Audio Bus A B Transceiver Data Sheet

1. Understanding the eBook Automotive Audio Bus A B Transceiver Data Sheet
 - The Rise of Digital Reading Automotive Audio Bus A B Transceiver Data Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Automotive Audio Bus A B Transceiver Data Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Automotive Audio Bus A B Transceiver Data Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Automotive Audio Bus A B Transceiver Data Sheet
 - Personalized Recommendations

- Automotive Audio Bus A B Transceiver Data Sheet User Reviews and Ratings
- Automotive Audio Bus A B Transceiver Data Sheet and Bestseller Lists
- 5. Accessing Automotive Audio Bus A B Transceiver Data Sheet Free and Paid eBooks
 - Automotive Audio Bus A B Transceiver Data Sheet Public Domain eBooks
 - Automotive Audio Bus A B Transceiver Data Sheet eBook Subscription Services
 - Automotive Audio Bus A B Transceiver Data Sheet Budget-Friendly Options
- 6. Navigating Automotive Audio Bus A B Transceiver Data Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Automotive Audio Bus A B Transceiver Data Sheet Compatibility with Devices
 - Automotive Audio Bus A B Transceiver Data Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Automotive Audio Bus A B Transceiver Data Sheet
 - Highlighting and Note-Taking Automotive Audio Bus A B Transceiver Data Sheet
 - Interactive Elements Automotive Audio Bus A B Transceiver Data Sheet
- 8. Staying Engaged with Automotive Audio Bus A B Transceiver Data Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Automotive Audio Bus A B Transceiver Data Sheet
- 9. Balancing eBooks and Physical Books Automotive Audio Bus A B Transceiver Data Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Automotive Audio Bus A B Transceiver Data Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Automotive Audio Bus A B Transceiver Data Sheet
 - Setting Reading Goals Automotive Audio Bus A B Transceiver Data Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Automotive Audio Bus A B Transceiver Data Sheet
 - Fact-Checking eBook Content of Automotive Audio Bus A B Transceiver Data Sheet

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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