



ITD 1024

INFOTAINMENT TEST DEVICE
AUTOMOTIVE AUDIO BUS® (A²B®) TRANSCEIVER



PRODUCT

Application Areas: R&D, Test and Validation, Production



SIEMENS



Management System
ISO 9001:2015
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FAST › FLEXIBLE › FOCUSED



ITD 1024 is an off-the-shelf solution for A²B[®], an emerging automotive audio bus. In combination with a comprehensive set of software tools, ITD 1024 allows for rapid testing of various A²B[®] components such as audio speakers, amplifiers, microphone arrays, sensors, and actuators.

A²B[®] BUS FEATURES

- › 50 Mbps data rate
- › Up to 32 independent up- and downstream channels
- › Single master, multiple slave (up to 10) line topology
- › Up to 15 m between nodes and up to 40 m overall cable length
- › 44.1kHz and 48kHz sampling rate, up to 32-bit audio

ITD 1024 FEATURES

- › Master or Slave node simulation
- › Compatible with AD240x, AD241x and AD242x transceivers
- › Local and phantom power (up to 300 mA) support for slave nodes
- › Node-level I²C device handling
- › Interrupts support
- › GPIO handling
- › A²B[®] diagnostics and error management support

ITD 1024 DIGITAL INTERFACE FEATURES

- › 8-bit to 32-bit multichannel I²S/TDM input
 - › Programmable data rate
 - › Up to 32 upstream and 32 downstream audio channels
- › PDM inputs for 4 high dynamic range microphones

SDK FEATURES

- › .NET and LabVIEW API for automated test integration
- › Quick and easy A²B[®] network configuration



Front



Rear: Analog Option



Rear: Digital Option

SPECIFICATIONS

Physical Specifications	ITD 1024
Dimensions	170 mm x 55 mm x 121 mm (L x H x W)
Weight	665 g
Power Requirements	
Voltage	12 VDC
Current (max.)	1.25 A
Power Supply (included)	100 - 240 VAC / 50 - 60 Hz
Interfaces	
PC Communication	Ethernet (RJ 45)
A ² B	Industrial grade connector
Digital Option	Optical S/PDIF I/O (Toslink) Digital Interface (D-Sub)
Analog Option	2 differential analog Inputs (XLR) 2 differential analog Outputs (XLR)

ASSOCIATED PRODUCT: TDM 1024

- › Multichannel I²S/TDMx Generator
- › Flexible, independent channel configuration
- › Optimized for use with the ITD 1024

