



## **A2B Automotive Audio Bus Transceiver Test Device**

U 923 is an off-the-shelf solution for A2B, an emerging automotive audio bus. A2B technology makes it suitable for use in remote audio scenarios, in combination with software tools, U 923 allows for rapid testing of various A2B components such as audio speakers, amplifiers, microphone arrays, sensors, and actuators.

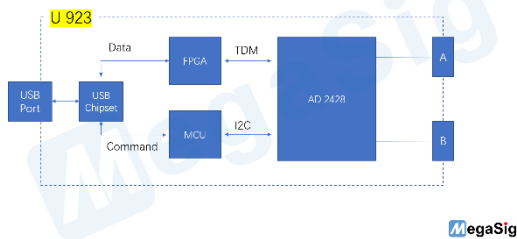
### General specifications

U923 parameters	
Driver	Shuttle
A2B connector	Industrial grade connectors
Command Control	USB
Working Voltage /Power Dissipation	12VDC/1A
Power	100-240 VAC/50-60 Hz
Dimensions(mm)	96*33*140 (W x H x D)
Suitable Temperature	-20°C~50°C

### Integrated endnode slave

- The NTH integrated A2B chipset for end node simulation
- It is possible to measure the phantom power from the previous device in the A2B chain
- The additional A2B end node is ideal for additional testing of the A2B port on a DUT

U 923 Block Diagram



### A2B General features

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

### Internal TDM interface features

- 32-bit multichannel TDM generator/recorder
- 16 output channels, 16 input channels
- Signal generation: sine or square wave, programmable amplitude, frequency and duty cycle
- Signal recording: simultaneous recording of all channels

### U 923 features

- Compatible with AD240x, AD241x, AD2442x and AD242x transceivers
- Support local and phantom power (up to 300 mA) for slave nodes
- Configurable phantom power voltage to simulate the specific nodes in the A2B chain
- Node-level I2C device handling
- Interrupts support
- GPIO handling
- Support A2B diagnostics and error management
- Selectable audio interface: Internal TDM interface or External audio

MegaSig reserves the right to change specifications and accessories without notice.