

# Pocket A<sup>2</sup>B™ 2.0 Bridge

## The Ultimate Tool for A2B Bus System Development and Testing

The **Pocket A<sup>2</sup>B 2.0 Bridge** is a portable, high-performance solution within the **Audio Kimura Technology** platform, designed to provide **scalable A<sup>2</sup>B test options** from development to production environments. It offers full independent operation to streamline the testing and emulation of A<sup>2</sup>B 2.0 bus systems.



## Features

- **Dual-Node Emulation:** Supports **full independent operation** of either **A<sup>2</sup>B 2.0 Main or Sub node emulation**, allowing for versatile bus simulation.
- **Integrated Testing Tools:** Features **built-in VU Meter and Signal Generators**, specifically designed for comprehensive **audio channel testing**.
- **AKT Automation:** Enables **autonomous bus configuration and discovery** immediately at power-up, reducing manual setup time.
- **Expanded Hardware Interface:** The device includes integrated ports for **USB, MicroSD, and QWIK**, alongside specialized **ADAA2457 + AUDIO I/O** connectivity.
- **High-Performance Platform:** Built on proprietary technology to ensure a refined test platform for modern automotive infotainment systems.
- **Optional plusAudio:** **Analog+S/PDIF I/O with harness**

## Applications

A<sup>2</sup>B 2.0 Node Emulation & Audio Routing for Testing  
Infotainment and Audio Systems

Head Unit (m)	ANC Systems (m/s)	Voice Assistants (s)
RNC Systems (m/s)	E-Call A2B (s)	Remote Tuners (s)
Amplifier (s)	Accelerometer (s)	A2B Microphones (s)

(m): Main A2B Node Emulation (s): Sub A2B Node Emulation



# Pocket A<sup>2</sup>B 2.0 Bridge

## Specifications

### Software

#### Built in command line interface over Terminal Emulator (Tera Term) for easy set up

Available advanced automation LUA Scripting  
License to automate start up, test configuration, self boot

Command and Control API to support test platform level integration via Python, C, C++

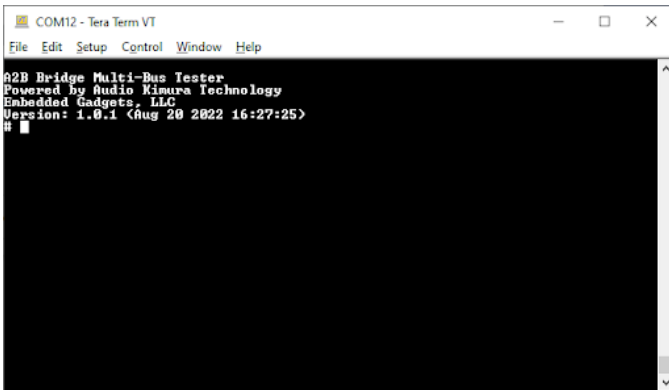
Graphical VU meters monitor and display Audio channels

Route and play audio channels to:

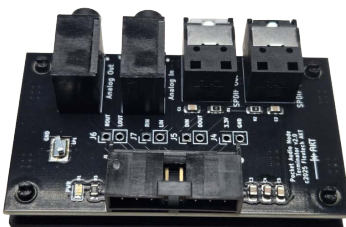
- Any A<sup>2</sup>B 2.0 audio channel
- Signal generators between nodes
- USB channels on PC for recording, analysis and playback from any DAW program

#### Operating Systems Supported (32-bit and 64-bit)

- Windows 10, 11
- Linux: Ubuntu 22.04
- Apple Mac



Tera Term



Plus Audio Interface

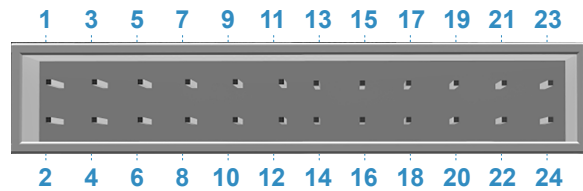
### Hardware

#### Pocket Bridge with Standard USB UAC 2.0 Interface

**Cross-Over Board** with DuraClick sockets for direct connect to ADI Evaluation boards

**24 PIN I/O Connector Harness** with A2B and 2 GPIO lines

#### Pocket Bridge I/O Header JST 24B-PHDSS



For more details on Pin Out see User Guide

#### DC Characteristics

Target Power: USB +5V, 350 mA max

GPIO Signal: 3.3V, 10 mA

#### Dimensions (W x D x L)

68 x 43 x 25 mm (2.7" x 1.8 x 1")

#### Weight

64 g (0.14 lbs)

#### Operating Temperature

0° C to 70° C (32° C to 158° F)

### Ordering Information

Pocket A2B 2.0 Bridge	ADA2457 Transceiver
Part Number	AKT-1100-E
	AKT-1150-E
<i>plus Audio Analog+S/PDIF I/O: Includes harness and interface board</i>	
Country of Origin	USA
HTS	8473.30.1180
ECCN	EAR99