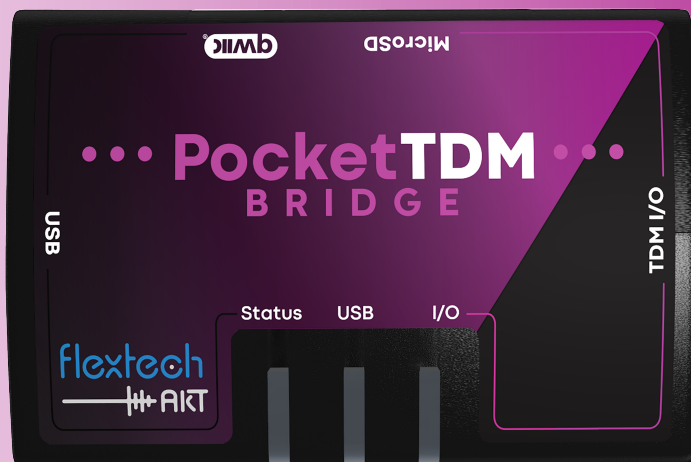TDMやI2S オーディオデータ信号をUSBから制御して簡単に発生できるツールです。

Pocket TDM Bridge™

TDMやI2S を使うオーディオデバイスの開発とテストに便利なUSB接続のツール

PCからUSB経由で制御してチップレベルのTDM オーディオ信号を、送信または受信テスト用に生成できます。簡単にTDM/I2S シリアルのMclk, FS, Bclk を設定し、TDMの任意チャンネルにUSB オーディオの入出力を割り当てることができます。

お問い合わせは 立野電脳(株)sales@dsp-tdi.com

Features

開発効率をUPする優れた機能

- Precise TDM/I2S signal configuration and alignment
- Clock Generation for low skew and jitter
- Bit perfect audio over TDM, USB
- Supports 32 in x 32 out up to 32 bit audio USB channels
- Flexible real-time audio routing over USB, Wav and TDM
- 10 TDM I/O (5 pairs) up to 160 16bit channels

動作設定が簡潔で使いやすい

- Built in Signal Generators route to any TDM audio channels
- Built in VU meters
- Compatible with ADI A2B transceivers for bus configuration and discovery
- Micro SD card for TDM audio Wav file record /playback or self boot
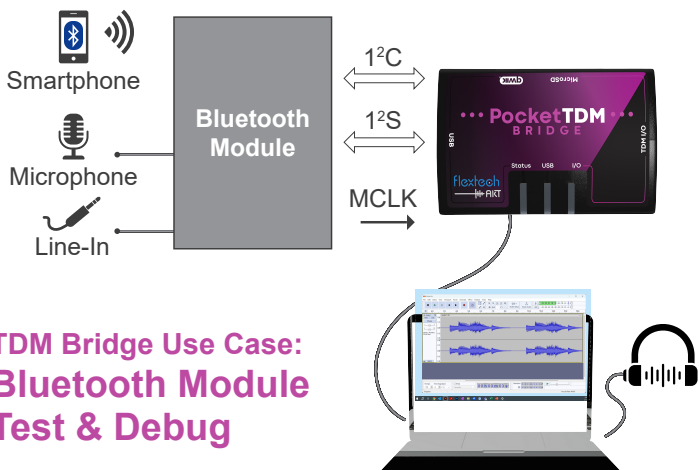- Includes flexible harness kit to interface TDM I/O, I2C, SPI and GPIO signals

サポート

- One-time purchase
- Firmware updates
- Detailed Quick-Start User Guide
- One year warranty
- Flextechakt.com
- dsp-tdi.com

USB Bus Power動作

- Portable
- No extra power adapters needed
- Small, light-weight
- Status LEDs

TDM Bridge Use Case:
Bluetooth Module Test & Debug

Applications

Audio Integrated Circuit (IC) testing: direct TDM/I2S signal debugging/testing: DSP, CODEC, ADC, DAC, AMP, BT

Demonstration: Route USB Audio to any TDM audio device channel for playback.

SD Card: Record TDM to Wav File, or Playback Wav to TDM

Bridge to DSIO interface on hardware audio analyzer (Ap, other)

Pocket TDM Bridge

Specifications

Software

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

Available advanced scripting for automation of commands for test configuration, self boot

Command and Control API to support test platform level integration via Python, C, C++
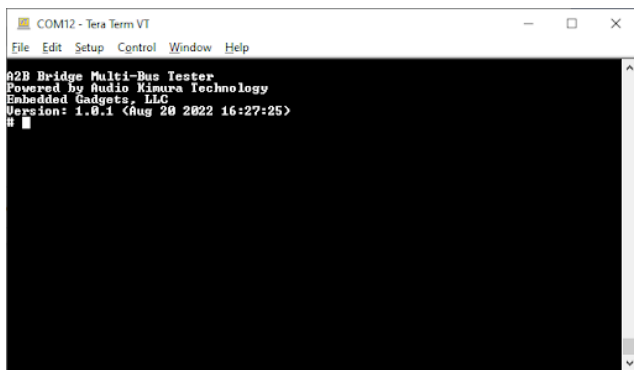
Graphical VU meters monitor to display Audio on any TDM channels

Route and play audio channels to:

- Any USB audio channel to any TDM Tx/Rx
- SD Card for TDM Wav file playback or record
- USB channels on PC for recording, analysis and playback from any DAW program

Operating Systems Supported (32-bit and 64-bit)
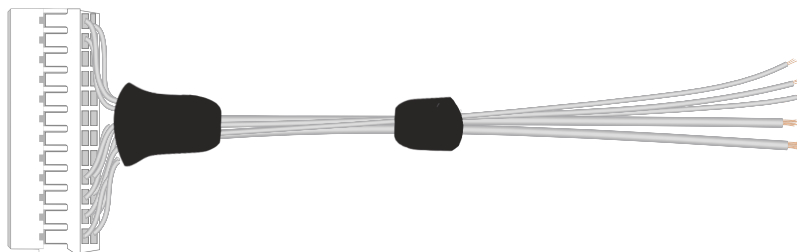- Windows 10, 11
- Linux: Ubuntu 22.04

Tera Term

Hardware

Pocket TDM Bridge with Standard USB UAC 2.0 Interface 24

PIN I/O Connector Header Harness Kit with 12 signal wires

DC Characteristics
Target Power: USB +5V, 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)