

Overview

This Host AUDIO example can support audio speaker device.

The application will print the audio speaker information when USB speaker device is attached.

System Requirement

Hardware requirements

- J-Link ARM
- P&E Micro Multi-link universal
- Mini/micro USB cable
- USB A to micro AB cable
- Hardware (tower/base board, ...) for specific device
- Personal Computer

Software requirements

- The project files are in: <SDK_Install>/examples/<board>/usb/usb_host_audio_speaker/<rtos>/<toolchain>.

Getting Started

Hardware Settings

For detailed instructions, see the appropriate board User's Guide.

- The Jumper settings:
JP12 connected .

Prepare the example

1. Download the program to the target board.
2. Power off the target board, and then power on again, or press the reset button on your board.
3. Connect the USB audio speaker devices to the board.

Note

For detailed instructions, see the appropriate board User's Guide.

Run the example

1. Connect board uart to PC and open the COM port in a terminal tool.
2. Plug in USB audio speaker device to the board, the attach information print out in the terminal.
3. The USB audio speaker information will print in the terminal when USB speaker device is attached.
4. Once the USB speaker device is plug-in the host, the USB application will automatically transfer the audio data to USB audio speaker device, then the sound can be heard from the audio speaker device.

The follow picture is an example for attaching one USB audio speaker device.

```
host init done
hid keypad attached:pid=0x6255vid=0x18c3 address=1
hid audio attached:pid=0x6255vid=0x18c3 address=1
keypad attached
USB audio attached
AUDIO_GET_MIN_VOLUME
Audio Speaker device information:
- Frequency device support      : 48000 Hz
- Bit resolution : 16 bits
- Number of channels : 2 channels
- Transfer type : Isochronous
- Sync type : Adaptive
- Usage type : Data endpoint
This audio device supports play audio files with these properties:
- Sample rate      : 48000 Hz
- Sample size      : 16 bits
- Number of channels : 2 channels
USB Speaker example will loop playback 48k_16bit_2ch format audio.
```