

### Features

- Low latency and high throughput USB Host Controller
- Low phase noise discrete Discroll-type crystal oscillator
- Ultralow voltage noise LDO regulator for oscillator circuitry and linear LDO for core voltage
- External direct +5V input for powering external USB peripherals
- Normal and low-profile brackets
- 3 years manufacturer's warranty

### Components

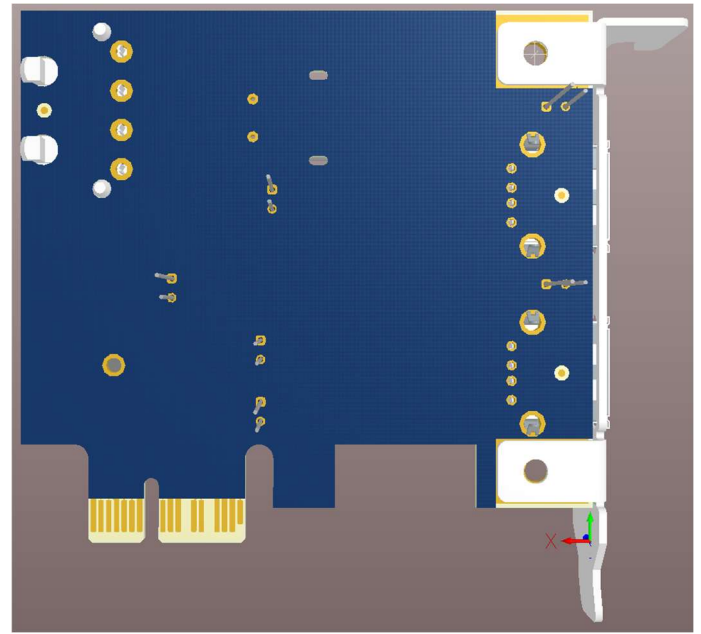
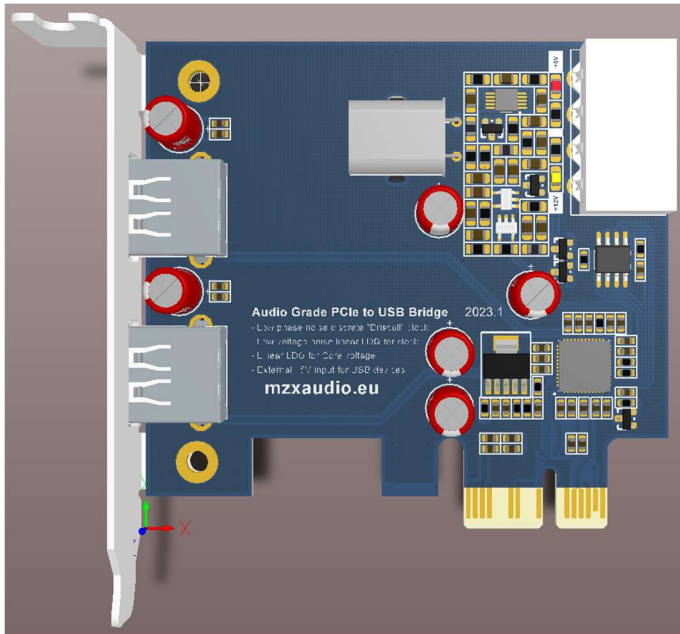
- Renesas  $\mu$ PD720202 USB 3.0 chipset
- LT3042 ultralow noise, ultrahigh PSRR RF linear regulator
- High-Q series resonance crystal
- 4 layer, high TG , improved FR4 PCB

### Description

The APCIE2USB card is intended to apply in hi-end audio PC for USB audio playback. The low phase noise reference clock, the clean powering of the USB host controller chip and the external pure powering of the USB device guarantees accurate, smooth dataflow and audiophile sound quality.

Very carefully designed 4 layers improved FR4 printed circuit board (PCB) with surface mounted components ensure minimal signal path and optimal signal integrity.

### PCB 3D view (with low profile bracket)



SPECIFICATION		
INPUT	PC bus connector	PCIe Gen2 x 1 Lane
	Power	MOLEX, Pin1=+12V (Clock, optional); Pin2-Pin3=GND; Pin4=+5V (USB)
OUTPUT	Connector	USB 2.0 Type A x 2
OTHERS	PCB Dimension	74 x 69 mm [Width x Height] without bracket
	Weight	TBD grams
ENVIRONMENT	Working temperature	-10 C° to +40 C°
	Working Humidity	20 to 90% RH, non-condensing
PACKAGING	Material	Corrugated paper and foam
	Box content	<ul style="list-style-type: none"> <li>• APCLe2USB card equipped with normal bracket</li> <li>• Additional low-profile bracket</li> </ul>
	Dimension	TBD
	Weight	TBD

Ordering code: APCLe-2-USB-Card

Label




**APCLe-2-USB-Card**  
**Audiophile PCIe 2 USB**

USB Power: 5Vdc / 1.5A  
 CLK Power: 12Vdc / 50mA  
 BUS: PCIe Gen2 x 1 S/N: 3001  
 HW ver. 2023.1 Built: 2023.23.wk