

JCAT USB CARD XE EVO – QUICK START GUIDE

Introduction

Thank you for purchasing the JCAT USB Card XE EVO. This Quick Start Guide is designed to guide you through installation.

Package Content

- JCAT USB Card XE EVO
- Low-profile PCI Express bracket (the card comes with the full-height bracket installed)

Installation Requirements

- PC with one free x1-x16 lane PCI Express 2.0/3.0 slot
- 5V/1.5A power supply (JCAT PSUs recommended for best sound quality)

System Requirements

- Linux, Microsoft Windows (all editions) & Mac OS 10.14 or later
- Windows, Linux and Mac OS driver are loaded automatically

Installation

- The 5V voltage for the card can be supplied from the computer PSU via the J5 LP4 Molex. However, it is highly recommended to connect linear 5V/1.5A power supply via the J6 DC input (the connector is 5.5/2.1 mm center positive) – this is recommended even if a USB DAC/USB DDC doesn't require 5V via USB port. The 5V voltage is additionally filtered by low noise LDOs on the JCAT board and only clean voltages are applied to the USB controller & clock.
- Only one power supply should be connected to the card at a time (power source is detected automatically)
- The card is configured to output 5V via USB ports by default
- If a USB DAC/USB DDC does not require 5V via USB ports, user can remove (pull) jumpers J3 & J4 from the card for best performance. The USB Card XE EVO will not output 5V via USB ports if jumpers J3 & J4 are removed.

Table 1 Connectors and jumpers

Connector	Description
J1	USB1, non-filtered USB port
J2	USB2, USB port with EMI Noise Reduction Filter
J3	Jumper installed (default) - 5V Vbus enabled via J1 USB1 port Jumper removed - no 5V Vbus via J1 USB1 port
J4	Jumper installed (default) - 5V Vbus enabled via J2 USB2 port Jumper removed - no 5V Vbus via J2 USB2 port
J5	LP4 Molex for connecting computer PSU or JCAT OPTIMO nano. Only Pin 3 (GND) and Pin 4 (+5V) are connected.
J6	DC jack input for connecting external 5V/1.5A PSU input. The connector size is 5.5/2.1 mm center positive
J7	PCIe connector for installing in PCIe slot. All type of slots are supported: x1-x16 lane PCI Express 2.0/3.0 slot
J8	SMA connector for connecting JCAT Master OCXO Clock
J9	Not used
J10	Jumper for selecting clock source: OCXO (default) - the card will use onboard OCXO EXT_CLK - the card will use external clock. If you use JCAT Master OCXO Clock, please change the position of the jumper to EXT_CLK.

- Optional: mount low-profile PCI Express bracket.
- Disconnect the power and remove your PC's cover.
- Look for a free PCI Express slot. Depending on the model, your motherboard may have a variety of different slots to choose from. The JCAT USB Card XE EVO can be installed in any PCI Express Gen 2 slot: x1, x2, x4, x8 and x16.
- Once you have decided which slot you are going to use, you might have to remove the blank (thin piece of metal attached that covers the hole in the chassis).
- Align the JCAT USB Card XE EVO with the slot and gently, but firmly push the card into position. Once the JCAT USB Card XE EVO is seated firmly into place, insert fixing screw.
- Connect 5V/1.5A power supply either via LP4 Molex or via 5.5/2.1 mm center positive DC jack connector.
- Check to make sure nothing has been loosened during installation and then replace the case cover and connect your USB device.
- Reconnect the power.