

NET CARD XE EVO – QUICK START GUIDE

Introduction

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

Package Content

- JCAT NET 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 performance)

System Requirements

- Linux, Microsoft Windows (all editions) & Mac OS 10.14 or later
- Drivers for Windows, Linux, and Mac OS load automatically

Installation

- The 5V power supply for the card can be provided by the computer's PSU via the J5 LP4 Molex connector. However, it is recommended to connect a linear 5V/1.5A power supply through the J6 DC input (5.5/2.1 mm center positive) for optimal performance. This ensures only clean power is supplied to the card's controller and clock. • Only one power source should be connected at a time; the card will automatically detect the source.
- The card is equipped with two RJ45 ports.

Clock Settings

- The card comes with a single jumper (J5) to select the clock source:
 - OCXO (default) – uses the onboard OCXO clock.
 - EXT_CLK – uses an external clock, such as the JCAT Master OCXO Clock. To switch to the external clock, move the jumper to EXT_CLK.

Table 1: Connectors and Jumper

Connector	Description
CON1	RJ45 Port 1,
CON2	RJ45 Port 2,
J3	LP4 Molex for connecting computer PSU or JCAT OPTIMO nano (only Pin 3 (GND) and Pin 4 (+5V) are connected)
J2	DC jack input for external 5V/1.5A PSU input. Connector size is 5.5/2.1 mm center positive
J1	PCIe connector for PCIe slot (x1-x16 lane PCI Express 2.0/3.0 slot)

Connector	Description
J4	SMA connector for connecting JCAT Master OCXO Clock
J5	Jumper for selecting clock source (OCXO or EXT_CLK)

Installation Steps

1. Optionally, mount the low-profile PCI Express bracket if required.
2. Power down and unplug your PC, then remove the cover.
3. Locate an available PCI Express slot (x1, x2, x4, x8, or x16).
4. Insert the JCAT NET Card XE EVO into the chosen slot, ensuring it is firmly seated, and secure it with a screw.
5. Connect the 5V/1.5A power supply via LP4 Molex or the 5.5/2.1 mm center positive DC jack connector.
6. Verify that everything is properly connected, replace the case cover, and power on your PC.