

Quick Start Guide

UEC-12 USB 3.0 Express Card

1. Getting Started

Welcome

...to UEC-12, a USB 3.0 PCI-Express card adapter that upgrades your laptop's data transfer speed to that of a desktop machine: maximum 4.8Gbps.



USB 3.0 is an upgrade to USB 2.0 not only in data transfer speed, but also in its ability to power up more powerful devices straight off the SuperSpeed bus. This new power management profile also provides more efficient power usage of the USB peripherals.

The UEC-12 also provides you with the following benefits:

- Backward-compatible with USB 2.0/1.1
- Easy setup: plug the card in, install the driver, and you're ready to go
- A 5V USB power cable for accepting the connection of a high-current USB 3.0 device

Overview



2. Preparing the Equipment

Double-check the package contents, and make sure your computer environment meets the system requirements.

Package contents

- UEC-12 USB 3.0 Express Card
- 5V DC USB power cable
- CD-ROM including the USB 3.0 driver
- Quick Start Guide (this document)

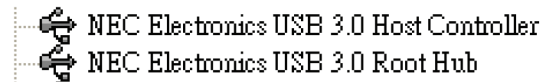
System requirements

- CD-ROM drive*
- Available PCI-Express 34/54 slot
- Available USB port to connect the included USB power cable
- Windows XP/Vista/7/, Linux
- USB 3.0 device (to verify the UEC-12's functionality)

* If your computer does not have a CD-ROM drive, you can copy the CD-ROM contents into a USB flash drive and install the driver from there.

3. Installing the USB 3.0 Driver to Your Computer

1. Insert the UEC-12 to your computer's PCI-Express slot.
2. The "Found New Hardware" wizard will appear in the computer screen. Click *Cancel* to close it.
3. Insert the CD-ROM into your computer's drive, or copy the CD-ROM contents into a USB flash drive and connect it to your computer.
4. Activate the setup program, *NECEL-USB3-Host-Driver-10180-setup.exe*.
5. Follow the setup instructions to install the USB 3.0 driver.
6. When the setup is completed, go to *Control Panel > System > Hardware > Device Manager > Universal Serial Bus Controllers*. You should see that these two drivers have been added to the list:
 - NEC Electronics USB 3.0 Host Controller
 - NEC Electronics USB 3.0 Root Hub



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4. Accessing USB 3.0 Devices

Connecting a USB 3.0 device to the UEC-12

1. Connect the included USB power cable between the power connector on the UEC-12 and a USB port on your computer. The power cable provides supplementary power to support USB 3.0 devices which consume more current than previous USB 2.0 devices.
2. Connect a USB 3.0 device to the UEC-12 and access the data just as with an ordinary USB 2.0/1.1 device.

WARNING:

If you want to connect two USB 3.0 devices to the UEC-12, always connect them one at a time. That means (1) Connect one USB 3.0 device, (2) Make sure it is recognized by the computer, and then (3) Connect another USB 3.0 device.

Doing otherwise might damage the UEC-12 hardware due to excessive current draw. Such situation includes the following:

- * Inserting the UEC-12 to your computer and then connecting two USB 3.0 devices at once.
- * Connecting two USB 3.0 devices to the UEC-12 and then inserting the UEC-12 to your computer.

USB version

The UEC-12 automatically recognizes the USB version (3.0/2.0/1.1) of the connected device and selects the highest compatible speed.

For other issues, refer to *Section 6: Troubleshooting and FAQs* to the right.

5. Technical Specifications

- Maximum data transfer rate: 4.8Gps (USB3.0 SS mode) / 480Mbps (USB2.0) / 12Mbps (USB1.1)
 - USB standard: Universal Serial Bus 3.0 Rev 1.0
 - PCI standards: Extensible Host Controller Interface (xHCI) Rev 0.96
PCI Express Base 1.1 Specification
PCI Local Bus Specification Rev 2.2
 - OS: Windows XP/Vista/7, Linux
 - Power supply: PCI-Express + USB bus power
 - Dimensions: 4.53 x 1.57 x 0.55" / 115 x 30 x 14mm
 - Weight: 0.07lbs / 31g
 - Operating temperature: 32-104°F / 0-40°C
 - Operating humidity: 0-85% (no condensation)
- This equipment has been tested and found to comply with the limits for a Class B digital device.

6. Troubleshooting and FAQs

Q: The UEC-12 does not fit into my computer's card slot.

A: Make sure your computer's PC card slot is either ExpressCard/34 or ExpressCard/54. If it is a Cardbus slot (54mm width but not compatible with ExpressCard), you need an adapter to connect the UEC-12 to your computer.

Q: The UEC-12 is not recognized by my computer (the USB 3.0 drivers are not listed in Device Manager).

- A:** 1. Run the setup program *NECEL-USB3-Host-Driver-10180-setup.exe* again and uninstall the driver files.
2. Follow the instructions in *Section 3: Attaching the UPC-01 to Your Computer* again to reinstall the driver files.

Q: The USB 3.0 access speed is much slower than 4.8Gbps.

A: 4.8Gbps is the maximum possible speed in an ideal environment. The highest access speed also depends on your USB device's specification. Consult its user manual for more details. Also, make sure that you are using a USB 3.0 cable to connect your USB device to the UEC-12. If you are using a USB 2.0 cable, the UPC-01 will recognize your device as a USB 2.0 device and adjust its access speed accordingly.

Q: The UEC-12 is recognized by my computer (the USB 3.0 drivers are listed in Device Manager) but my USB 3.0 device is not working properly.

- A:** Check the following points:
- Make sure that there is no USB hub inserted in between your USB device and the UEC-12.
 - Make sure that you are using a USB 3.0 cable, not a USB 2.0 cable, to connect your USB device to the UEC-12.
 - Make sure you have connected the USB power cable between the UEC-12 and your computer.

If you have other questions or the solutions above do not work, contact our customer support at cs@ipevo.com.