

Quick Start Guide

UPC-12 USB 3.0 PCI-E Card

1. Getting Started

Welcome

...to UPC-12, a PCI Express card that transforms your ordinary desktop computer into a personal data center, capable of transferring up to 4.8Gbps via two USB 3.0 ports.

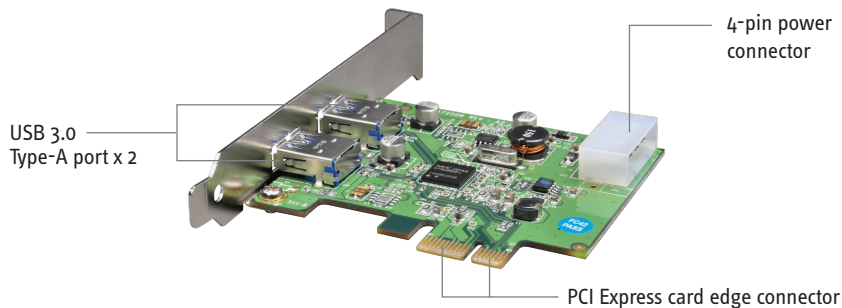


USB 3.0 is an upgrade to the traditional USB 2.0 not only in data transfer speed, but also in its ability to power up more powerful devices straight off the SuperSpeed bus. This new power management profile also provides more efficient power usage of the USB peripherals.

UPC-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
- An internal power connector allows both USB ports to accept high-current USB devices

Appearance



2. Preparing the Equipment

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

Package contents

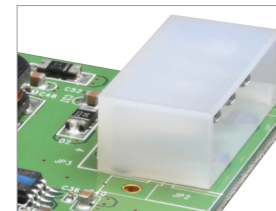
- UPC-12 USB 3.0 PCI-E Card
- Molex Y cable (4-pin to 4-pin x 2)
- CD-ROM with USB 3.0 driver
- Quick Start Guide (this document)

System requirements

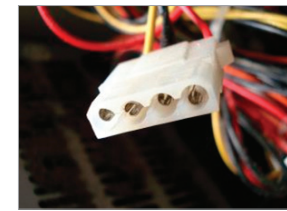
- Available PCI Express x1 slot
- CD-ROM drive
- Windows 7/Vista/XP
- USB 3.0 device (for verifying the UPC-12's functionality)

3. Attaching the UPC-12 to Your Computer

1. Turn your computer off and unplug the power cord.
2. Open your computer's case and insert the UPC-12 into a PCI Express slot.
3. Connect an internal 4-pin Molex power cable to the UPC-12.
(If you do not have an available Molex cable, extend an existing one using the Y-cable included in the package.)



Power connector on the UPC-12



4-pin Molex power cable

4. Lock the UPC-12 into its position (use the mounting screw if necessary) and close your computer's case.
5. Plug the power cord to your computer in and turn it on.

Continued to Section 4, Installing the USB 3.0 Driver to the Computer...

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4. Installing the USB 3.0 Driver to your Computer

1. When you turn your computer on after installing the UPC-12, the 'Found New Hardware' wizard will appear. Click *Cancel* to close it.
2. Insert the CD-ROM into your computer's drive.
3. Activate the setup program, *NECEL-USB3-Host-Driver-10180-setup.exe*.
4. Follow the setup instructions to install the USB 3.0 driver.
5. When the setup is completed, go to *Control Panel > System > Hardware tab > Device Manager > Universal Serial Bus Controllers*. You should see that these two drivers were added to the list.
 - NEC Electronics USB 3.0 Host Controller
 - NEC Electronics USB 3.0 Root Hub



NEC Electronics USB 3.0 Host Controller

NEC Electronics USB 3.0 Root Hub

6. Connect a USB device to the UPC-12 and access its data just as with an ordinary USB device.
The UPC-12 automatically recognizes the USB version (3.0/2.0) of the connected device and selects the highest compatible speed.

5. Technical Specifications

- Maximum data transfer rate: 4.8Gbps (USB3.0 SS mode) / 480Mbps (USB2.0) / 12Mbps (USB1.1)
- Standards: Universal Serial Bus (USB) 3.0 Rev 1.0
Extensible Host Controller Interface (HCI) Rev 0.96
PCI Express Base Rev 1.1
PCI Local Bus Rev 2.2
- Dimensions: 4.76 x 3.74 x 0.75" / 121 x 95 x 19mm
- Weight: 0.11lbs / 50g
- Operating temperature: 40-95°F / 5-35°C
- Operating humidity: 20-80% (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 UPC-12 is not recognized by my computer (the USB 3.0 drivers are not listed in Device Manager).

- A:** 1. Insert the CD-ROM into your computer's drive, run the setup program *NECEL-USB3-Host-Driver-10180-setup.exe*, and uninstall the driver files.
2. Follow the instructions in *Section 3 Attaching the UPC-12 to Your Computer* again to make sure that the UPC-12 is securely installed as hardware.
 3. Continue with the instructions in *Section 4* and 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 UPC-12. If you are using a USB 2.0 cable, the UPC-12 will recognize your device as a USB 2.0 device and adjust its access speed accordingly.

Q: The UPC-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 UPC-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 UPC-12.
- Make sure you have connected the internal Molex power cable between the UPC-12 and your computer.

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