UPort 2000 Series
Quick Installation Guide

USB-to-Serial Converter

Version 3.1, January 2021

MOXA®

P/N: 1802020000013

Overview

UPort is the brand name of Moxa's USB-to-serial product line, which provides a wide range of products and solutions to extend Windows COM ports using the PC's USB port. Important features of UPort products include support for Hi-Speed (480 Mbps) USB 2.0, Moxa CPU, Moxa UART, and the ability to assign COM port numbers. These features make Moxa's UPort products easy to use and maintain.

The UPort 2000 Series of USB-to-Serial Converter includes the following models:

- UPort 2210   2-port RS-232 USB-to-Serial Converter
- UPort 2410   4-port RS-232 USB-to-Serial Converter

Before connecting the UPort USB-to-Serial Converters to your computer's USB port, we recommend installing the UPort driver first. To do this, follow the installation procedure described in Section 3.

The installation procedure described in Section 3 was done on a PC running Windows XP system. UPort converters can be connected to any upstream type **A** USB port that is on the PC host or on an upstream hub. UPort converters are hot pluggable, and therefore there is no need to power down your computer prior to installation.

After installing the driver, connect the UPort to an upstream host or hub. The **Found New Hardware** wizard will locate the appropriate drivers automatically. Once the drivers are found, various windows will pop up as the UPort's serial port is being installed.

When the **Found New Hardware wizard** finishes installing the UPort, use the operating system's Device Manager to check and/or modify the port settings. The new COM port will be listed under Ports (COM & LPT).
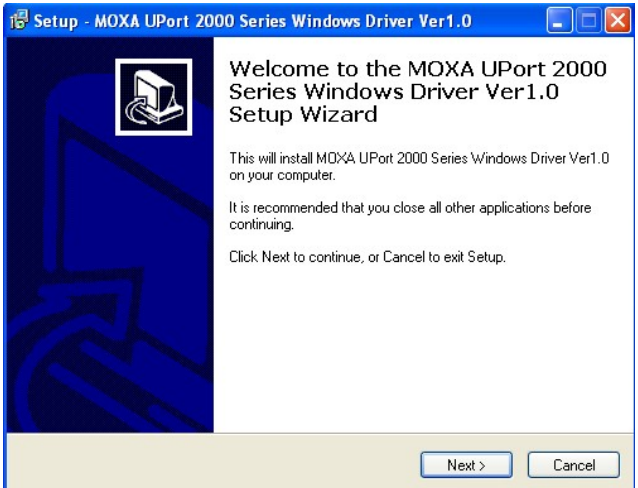
Package Checklist

Before installing your UPort, verify that the package contains the following items:

- UPort 2210 or 2410 USB-to-serial converter
- 1 USB cable
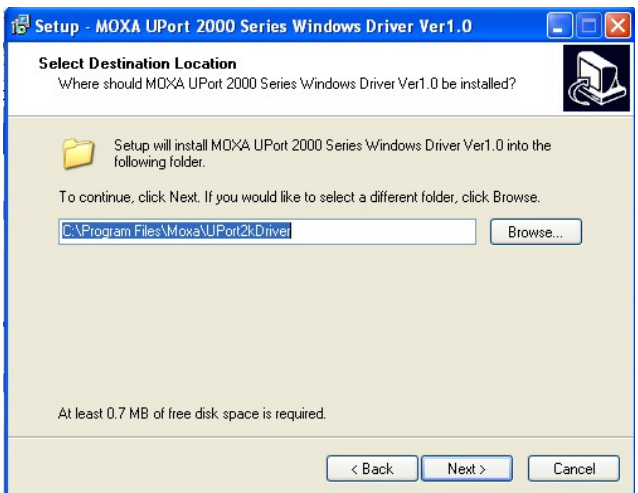- UPort 2000 series Quick Installation Guide

Notify your sales representative if any of the above items are missing or damaged.

Installing the UPort 2000 Series Windows Driver
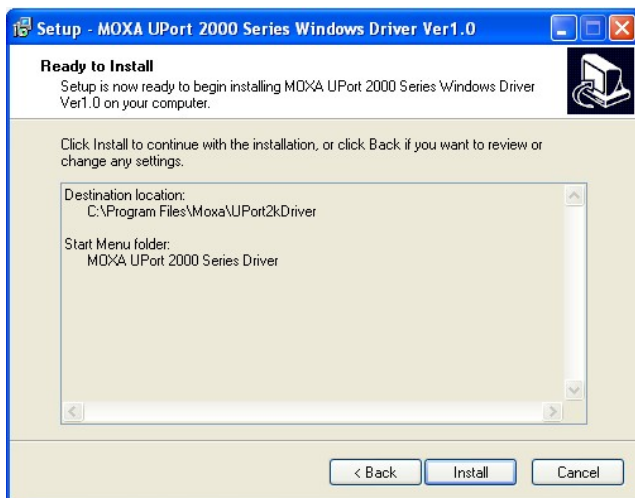
1. Run the Setup program which you may find on Moxa's support website http://www.moxa.com/support/, under the Product page. Click **Next** to start installing the driver.

2. Click **Next** to install the driver in the indicated folder.

3. Click **Install** to proceed with the installation.

4. Then click **Finish** to complete the driver installation.

Installing the UPort 2000 Series Hardware

> ⚠ **WARNING**
> 1. This unit is not meant to be sold to consumers. It will only be shipped to manufacturers or factories.
> 2. This unit should be installed or set up by a qualified service technician.

1. Connect the UPort to the PC using the USB cable.
2. After powering on your PC, Windows will automatically detect the UPort.
3. **Case 1: The UPort Driver is Certified**
   If the UPort driver that you installed has been certified by Microsoft, the UPort and the UPort's serial ports will be installed automatically when you plug the UPort into your computer's USB port.
   Case 2: The UPort Driver is NOT Certified
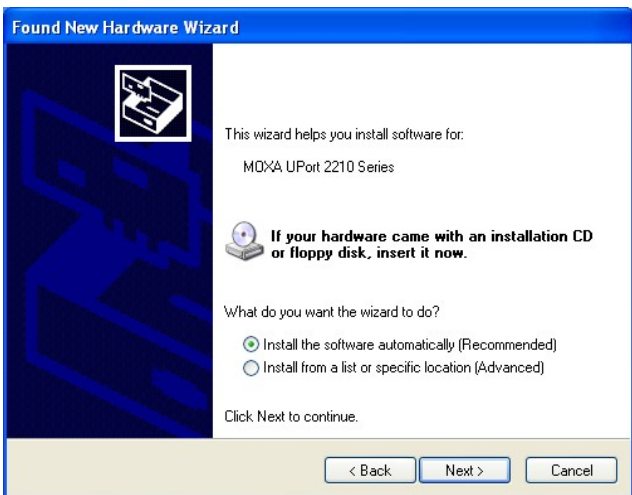   If the UPort driver that you installed has not been certified by Microsoft, then plugging the driver into your computer's USB port will activate the UPort installation program. The first part of the installation procedure installs the software for the UPort itself (the second part of the procedure installs the serial ports).
   Click **Next** to start the installation.

Found New Hardware Wizard

Welcome to the Found New Hardware Wizard

Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).

Read our privacy policy

Can Windows connect to Windows Update to search for software?

○ Yes, this time only
○ Yes, now and every time I connect a device
◉ No, not this time

Click Next to continue.

[< Back] [Next >] [Cancel]

4. Select **Install the software automatically (Recommended)**.

Found New Hardware Wizard

This wizard helps you install software for:

MOXA UPort 2210 Series

💿 **If your hardware came with an installation CD or floppy disk, insert it now.**

What do you want the wizard to do?

◉ Install the software automatically (Recommended)
○ Install from a list or specific location (Advanced)

Click Next to continue.

[< Back] [Next >] [Cancel]

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5. The next window that opens cautions you that although this software has not passed Windows logo testing, this driver has already been tested and shown that it can support Windows OS. Click **Continue Anyway** to proceed. Then, click **Finish** to complete the driver installation.

6. Repeat steps 3 to 5 until all COM ports have been installed.
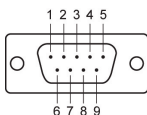
Installing the Linux Driver

Please refer to readme.txt that is included in the driver file for detailed instruction. Driver file can be downloaded from the Moxa's website, under the product page.

```
# tar -xvfz driv_linux_uport2000_vx.x_build_xx.tgz
# cd /moxa/mxuport2000
# make clean
# make install
# modprobe mxuport2000
```

Serial Port Pin Assignments

The serial ports on the UPort 2000 use male DB9 connectors. Refer to the following table for the RS-232 pin assignments.

Male DB9

Pin	RS-232
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS

Power Input Specifications

The UPort 2210 and UPort 2410 both support 5 VDC bus power.