UPort 1100 Series
USB-to-Serial Converter
Quick Installation Guide

Fourth Edition, June 2009

1. Overview

The UPort 1100 Series is part of Moxa's UPort Line of USB-to-Serial adaptors. The UPort product line provides a wide range of easy-to-use solutions for adding Windows COM ports and Linux tty ports through a PC's USB port. The UPort 1100 series includes the following models:

UPort 1110: 1-port RS-232 USB-to-Serial Converter
UPort 1130: 1-port RS-422/485 USB-to-Serial Converter
UPort 1130I: 1-port RS-422/485 USB-to-Serial Converter w/ Isolation
                    Protection.
UPort 1150: 1-port RS-232/422/485 USB-to-Serial Converter
UPort 1150I: 1-port RS-232/422/485 USB-to-Serial Converter w/
                    Isolation Protection.

ATTENTION
Before plugging the adaptor into your computer's USB port, we recommend installing the driver first. Please refer to Section 3 for driver installation procedures.

After the driver is installed, the adaptor can be plugged into any upstream type A USB port, either on a PC host or on an upstream hub. The adaptor is hot-pluggable, so there is no need to power down your computer prior to installation. The **Found New Hardware** wizard will automatically locate the appropriate drivers, and various windows will appear as the adaptor is being installed.

After the **Found New Hardware** wizard finishes installing the adaptor, the Windows Device Manager may be used to modify the settings for the new COM port. The new COM port will be listed under Ports (COM & LPT) and the new adapters will be listed under Multi-port serial adapters. For more information about port configuration, please refer to the UPort 1100 Series user manual.

2. Package Checklist

Before installing the adaptor, please verify that the package contains the following items:

- UPort 1100 Series USB-to-Serial Converter
- UPort Documentation and Software CD-ROM
- UPort 1100 Series Quick Installation Guide
- 5-year Warranty Statement

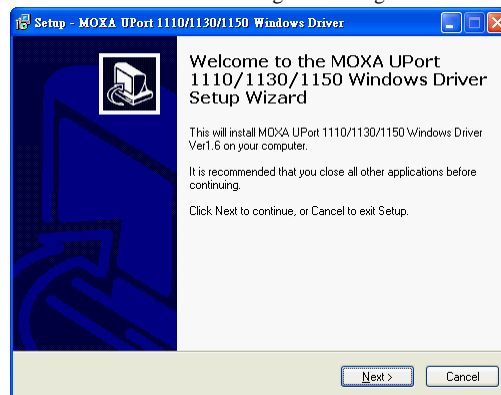The UPort 1130/1130I/1150/1150I will also come with the following item:

- Mini DB9F-to Terminal-Block Converter

NOTE: Please notify your sales representative if any of the above items are missing or damaged.
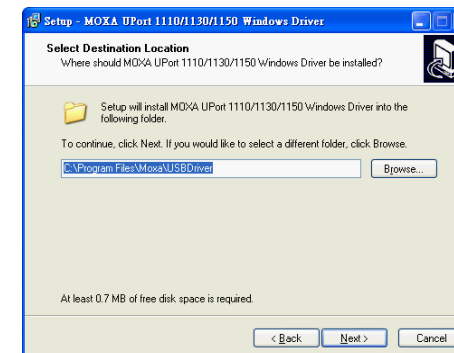
3. Hardware Introduction

The following instructions and screenshots are from a PC running Windows XP(32-bit), but the same instructions apply for Windows 98/ME/2000 and Windows XP/2003/Vista and Windows 2008 (32-bit and 64-bit).
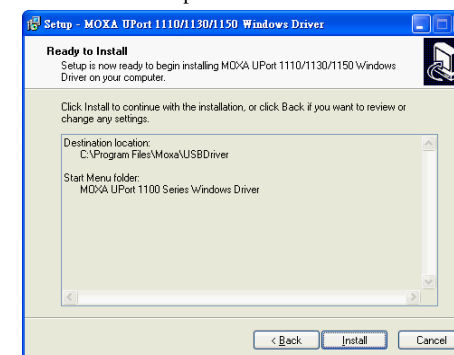
1. Run **Setup.exe**, located on the Documentation and Software CD-ROM. Click on **Next** to begin installing the driver.

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

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

4. The next window cautions you that this software has **NOT** passed Windows logo testing. This is a standard warning, and Moxa has thoroughly tested the driver for safe Windows operation. Please click **Continue Anyway** to proceed. Then, click **Finish** to complete the driver installation.

4. Installing the Hardware

1. Plug the adaptor into any upstream USB port (e.g., a USB port on your computer). Windows are done with hardware installation at this point and may continue on to port configuration. Windows will auto-detect the UPort cable and show **Found New Hardware** in the System Tray.
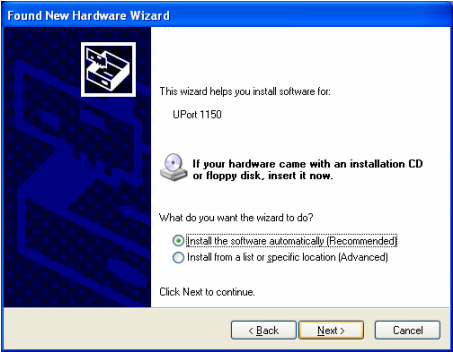
2. The following window will appear. Select **No, not this item** click **Next**.

3. Select **Install the software automatically (Recommended)**, and then click **Next** to proceed.

4. The next window cautions you that this software has not passed Windows logo testing. This is a standard warning, and Moxa has thoroughly tested the driver for safe Windows operation. Please click **Continue Anyways** to proceed. Then, click **Finish** to complete the driver installation.

5. Repeat Step2 to Step 4 until COM port is installed.

5. Installing the Linux Driver for the UPort 1100 Series.

Linux Kernel 2.4.x

Execute the following commands from the Linux prompt:
```
# mount /dev/cdrom/ mnt
# cd /
# mkdir moxa
# cd /moxa
# cp /mnt/<driver directory
>/driv_linux2.4_uport1p_vx.x_build_yymmddhh.tgz/moxa
# tar -xvfz driv_linux2.4_uport1p_vx.x_build_yymmddhh.tgz
```

— 4 —

```
# cd /mxu1100_24/driver
# make clean
# make install
# modprobe mxuport1100_24
```
*Note: yy = year, mm = month, dd = day, hh = hour

Linux Kernel 2.6.x

Execute the following commands from the Linux prompt:
```
# mount /dev/cdrom/ mnt
# cd /
# mkdir moxa
# cd /moxa
# cp /mnt/<driver directory
>/driv_linux2.6_uport1p_v1.1_build_xx.tgz/moxa
# tar -xvfz driv_linux2.6_uport1p_v1.1_build_xx.tgz
# cd / mxu11x0/driver
# make clean
# make install
# modprobe mxu11x0
```

6. Installing the Win CE 5.0 Driver

Moxa provides two installation procedures that can be used to install the Windows CE 5.0 driver: by "CAB file" and with the "installation package." In this document, we only cover the CAB file installation. If you need to use package to install the WinCE driver, please refer to the user's manual.

Installation with a CAB File

Step 1: Install Microsoft ActiveSync on the source PC. Before running ActiveSync on the source PC, use an RS-232 null modem cable to connect the WinCE device (CEPC) to the PC.

Step 2: Go to the "Command Prompt" on the WinCE device and execute the repllog command. A new partnership window will appear. Select "No" and then click on "Next." You will see "Connected" in ActiveSync.
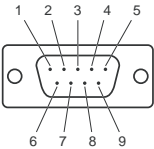
Step 3: Click on the "Explore" button in the ActiveSync window, and then copy the **UP1100_COM_v1.0_Setup.cab** file to the mobile/target device.

Step 4: Double click on the CAB file (UP1100_COM_v1.0_Setup) to start installing the UPort 1110/1130/1150 WinCE 5.0 driver. After installing the driver, plug the UPort 1110/1130/1150 device into the USB port of the WinCE device. The driver will be loaded automatically. At this point, the UPort 1110/1130/1150 is ready to use.

— 5 —

7. Serial Port Pin Assignments

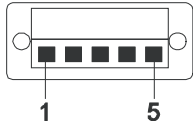The UPort 1100 series uses male DB9 connectors. Pin assignments are shown in the following diagram:

Male DB9

Pin	RS-232	RS-422/485 (4-wire)	RS-485 (2-wire)
1	DCD (in)	TxD-(A)	---
2	RxD (in)	TxD+(B)	---
3	TxD (out)	RxD+(B)	Data+(B)
4	DTR (out)	RxD-(A)	Data-(A)
5	GND	GND	GND
6	DSR (in)	---	---
7	RTS (out)	---	---
8	CTS (in)	---	---

The UPort 1130/1130I/1150/1150I comes with a DB9 to terminal block converter, with pin assignments as shown below:

Terminal Block

Pin	RS-422/485 (4-wire)	RS-485 (2-wire)
1	TxD+(B)	---
2	TxD-(A)	---
3	RxD+(B)	Data+(B)
4	RxD-(A)	Data-(A)
5	GND	GND

Note that the converter maps pin 1 on the DB9 connector to pin 2 on the terminal block, and pin 2 on the DB9 connector to pin 1 on the terminal block.

8. Certification

This product complies with Chinese RoHS (Restriction of Hazardous Substances) regulations for Electronic Information Products.

— 6 —