UPort 1100 Series

User's Manual

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UPort 1100 Series User's Manual

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1 Introduction

The UPort 1100 Series of USB-to-serial adaptors provide an easy way to add COM ports to your computer. The UPort 1110 provides one RS-232 port, the UPort 1130 provides one RS-422/RS-485 port, and the UPort 1150 and UPort 1150I each provide one RS-232/422/485 port. As a plug and play USB device, the adaptors are perfect for mobile, instrumentation, and point-of sale applications.

The following topics are covered in this chapter:

- **Overview**
- Package Checklist
- **Product Features**
- **D** Product Specifications
- **LED** Indicators
 - > Adjustable Pull High/low, Terminator Resistors for the RS-485 Port

Overview

The UPort 1110, UPort 1130, and UPort 1150/1150I are part of Moxa's UPort line of USB-to-serial adaptors. The UPort line provides a range of easy-to-use solutions for adding COM ports through a PC's USB port. Simply install the drivers, connect the UPort to your computer, plug in your serial devices, and you're ready to go. Programming is not required, and you do not need to worry about IRQs, configuring a board, power requirements, or connection schemes.

The UPort 1100 series provides single COM port expansion. The UPort 1110 adds one RS-232 port to your computer, which is the same type of COM port that is built into most PC motherboards. The UPort 1130 adds one port that is configurable for RS-422, 2-wire RS-485, and 4-wire RS-485 modes. The UPort 1150/1150I adds one RS-232, RS-422, 2 wire RS-485, or 4 wire RS-485 port to your computer. All of these models can operate at speeds of up to 12 Mbps, which is much faster than the current maximum serial transfer rate.

The adaptor is bus-powered, so no external power supply is required.

Package Checklist

The following items are included in your UPort package:

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

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

Mini DB9F-to-Terminal-Block Converter

NOTE: Notify your sales representative if any of the above items is missing or damaged.

Product Features

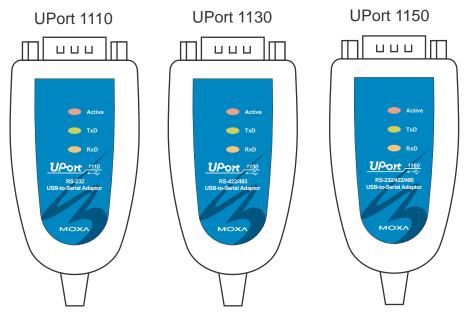
The UPort adaptor has the following features:

- Full-Speed USB operation at up to 12 Mbps
- Additional I/O or IRQ not required
- Serial transmission speed up to 921.6 Kbps
- 64-byte FIFO and built-in hardware and software flow control
- Built-in 15 KV ESD protection
- Support for RS-422, 2-wire RS-485, and 4-wire RS-485 (UPort 1130/1150/1150I)
- Terminal block adaptor (UPort 1130/1150/1150I)
- 2 KV Optical Isolation Protection (UPort 1150I only)

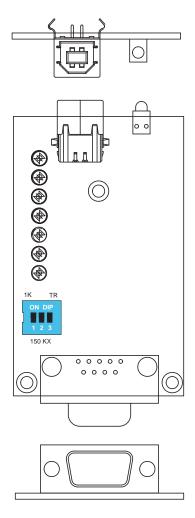
Product Specifications

USB	
Version	USB 1.1 (also compatible with USB 1.0 and 2.0)
Connector	USB type B
Speed	12 Mbps
Serial Interface	
No. of Ports	1
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	TxD+(B), TxD-(A), RxD+(B), RxD-(A),GND
RS-485	4-wire: TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND 2-wire: Data+(B), Data-(A), GND
Connector	Male DB9
FIFO	64 bytes
Serial line protection	15 KV ESD for all signals
Serial Communication	Parameters
Parity	None, Even, Odd, Space, Mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
Flow control	RTS/CTS, XON/XOFF
Speed	50 bps to 921.6 Kbps
Power Requirements	
Power Consumption	30 mA@5 VDC
Mechanical	
Dimensions	UPort 1110/1130/1150: 37.5 x 20.5 x 60 mm (L x W x H) UPort 1150I: 52 x 80 x 22 mm (L x W x H)
Material	UPort 1110/1130/1150: ABS + PC UPort 1150I: Metal
Gross Weight	UPort 1110/1130/1150: 60 g (0.13 lb) UPort 1150I: 80 g (0.17 lb)
Environmental	
Operating Temperature	0°C to 55°C (32°F to 131°F)
Storage Temperature	-20°C to 85°C (-4°F to 185°F)
Operating Humidity	5% RH to 95% RH
Regulatory Approvals	
	EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-8, FCC Part 15 Class B
Warranty	
	5 years

LED Indicators



Name	Description
Active	This LED indicates normal operation. If the driver is installed correctly and the adaptor is plugged into a functioning USB port, the Active LED will light up and remain on. If the LED does not light up, there may be a problem with the adaptor, the driver installation, or PC configuration.
TxD	This LED blinks when the adaptor transmits data through its COM port.
RxD	This LED blinks when the adaptor receives data through its COM port.



Adjustable Pull High/low, Terminator Resistors for the RS-485 Port

In some critical environments, you may need to add termination resistors to prevent the reflection of serial signals. When using termination resistors, it is important to set the pull high/low resistors correctly so that the electrical signal is not corrupted. The UPort uses DIP switches to set the pull high/low resistor values for each serial port.

To set the pull high/low resistors to 150 K Ω , make sure both of the assigned DIP switches are in the OFF position. This is the default setting.

To set the pull high/low resistors to 1 K Ω , make sure both of the assigned DIP switches are in the ON position.

SW	1	2	3
	Pull High	Pull Low	Terminator
ON	1ΚΩ	1ΚΩ	120 Ω
OFF	150 ΚΩ	150 KΩ	Disable



ATTENTION

Do not use the 1 K Ω setting on the UPort when using the RS-232 interface. Doing so will degrade the RS-232 signals and shorten the maximum allowed communication distance.

2

Installation and Configuration

Installation of the adaptor is a simple process. First install the driver, then plug the adaptor into a USB port. When the adaptor is plugged in, Windows will load the correct drivers for the adaptor and the new COM port. In this chapter, basic installation and configuration procedures are explained. Although the installation screens will be for Windows 2000, the procedures are essentially the same for Windows 98 and later versions.

The following topics are covered in this chapter:

- □ Initial Driver Installation
- □ Hardware Installation
 - ▶ Windows 98/ME and Windows 2000
 - > Windows XP, Windows 2003, and Windows Vista (32-bit and 64-bit)
- **Configuring the COM Port**
- **Configuring the Adaptor**
- **Removing the Adaptor**
- **Uninstalling the Driver**
- □ Install Linux driver for UPort 1100 Series

Initial Driver Installation

The Documentation and Software CD will contain the drivers for the adaptor. You may also download the drivers at <u>www.moxa.com</u>. The installation procedure is the same for all Windows operating systems.

Use Windows Explorer to locate the driver installation file, which will be **Setup** or **Install**. On the Documentation and Software CD, this file will be located in the **UPort 1100/Software** folder, filed by operating system. Double-click the **Setup** or **Install** file.

1. The Setup Wizard will open. Click Next to begin installing the driver.

🚯 Setup - MOXA UPort 1110/1130/1150 Windows Driver 📃 🗖 🔀		
	Welcome to the MOXA UPort 1110/1130/1150 Windows Driver Setup Wizard	
	This will install MOXA UPort 1110/1130/1150 Windows Driver Ver1.5 on your computer.	
	It is recommended that you close all other applications before continuing.	
	Click Next to continue, or Cancel to exit Setup.	
	<u>N</u> ext > Cancel	

2. Click **Next** to install the driver in the indicated folder, or use the drop-down folder list to locate a different folder.

🕼 Setup - MOXA UPort 1110/1130/1150 Windows Driver		
Select Destination Location Where should MOXA UPort 1110/1130/1150 Windows Driver be installed?		
Setup will install MDXA UPort 1110/1130/1150 Windows Driver into the following folder.		
To continue, click Next. If you would like to select a different folder, click Browse.		
C:\Program Files\Moxa\USBDriver Browse		
At least 0.7 MB of free disk space is required		
At least 0.7 MB of free disk space is required.		
< <u>B</u> ack <u>N</u> ext> Cancel		

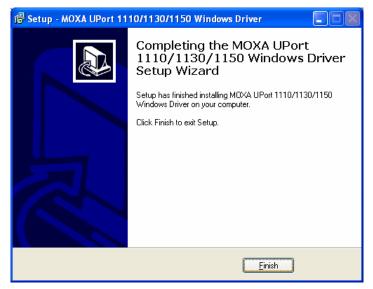
3. Click **Install** to proceed with the installation.

🕞 Setup - MOXA UPort 1110/1130/1150 Windows Driver	
Ready to Install Setup is now ready to begin installing MDXA UPort 1110/1130/1150 Windows Driver on your computer.	
Click Install to continue with the installation, or click Back if you want to review or change any settings.	rc
Destination location: C:\Program Files\Moxa\USBDriver	
<	>
< <u>B</u> ack Install	Cancel

4. A window will pop up cautioning 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 **STOP Installation** to proceed.

Insta Pli So yo	ftware Installation	Ċ
Fir 🤞	The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important.</u>) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.	0
-	Continue Anyway STOP Installation	

5. Click **Finish** to complete the installation of the driver.



Hardware Installation

After installing the driver, plug the adaptor into any upstream USB port, such as a USB port on your computer. Windows will automatically detect the adaptor and begin installing the driver. When the Windows finishes installing the driver for the adaptor, it will then detect a new COM port, and will then install another driver for the new COM port.



ATTENTION

For best results, we recommend that you install the driver before plugging the adaptor into the USB port. Please refer to the previous section on Initial Driver Installation for instructions.

Windows 98/ME and Windows 2000

The following instructions are for Windows 98 and Windows 2000 systems:

1. After plugging the adaptor into a USB port, the **Found New Hardware** window should open automatically. The USB icon indicates that the USB port is being installed. No action is required.

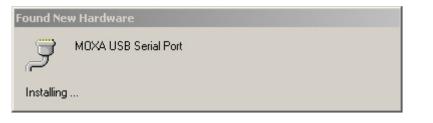


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2. Windows 98 users may skip to the next step. On Windows 2000 systems, a window will pop up cautioning you that this software has not passed Windows logo testing. This is a standard warning, and Moxa has thoroughly tested the driver for safe Windows operation. Please click **Yes** to proceed.



3. Windows will automatically detect and install the new serial port. No further action is required



Windows XP, Windows 2003, and Windows Vista (32-bit and 64-bit)

The following instructions are for Windows XP, Windows 2003, and Windows Vista systems.

1. After plugging the adaptor into a USB port, Windows will automatically detect the new device. The **Found New Hardware** balloon will appear in the bottom right corner of the Windows desktop. No action is required yet.

🤹 iv Found New Hardware	×	
UPort 1150		
EN	×10.	3:40 PM



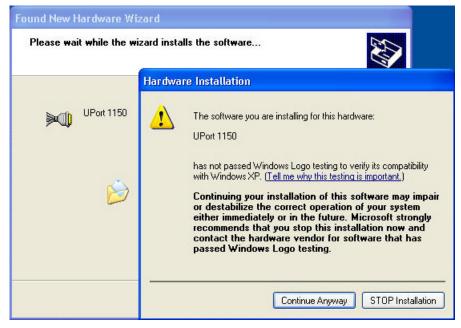
2. After a moment, the Found New Hardware Wizard will open. If you see the following screen, select **No, not this time**, then click **Next**.

3. On the next window that appears, select **Install the software automatically (Recommended)**, then click **Next**.

Found New Hardware Wizard		
Image: Note of the i		
< Back Next > Cancel		

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4. The installation wizard will search for the correct drivers. After a moment, a window will pop up cautioning 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.



- 5. Windows will spend a few moments installing the UPort driver.
- 6. The next window indicates that Windows has completed the installation. Click **Finish** to continue with installation procedure.



7. After Windows has completed installing the adaptor, it will automatically detect the new COM port. The **Found New Hardware** balloon will appear in the bottom right corner of the Windows desktop.



8. The Found New Hardware Wizard will open. If you see the following screen, select **No**, **not this time**, then click **Next**.

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). <u>Read our privacy policy</u>	
	Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and givery time I connect a device No, not this time	
	Click Next to continue.	
	< <u>B</u> ack <u>N</u> ext > Cancel	

9. After a moment, the Found New Hardware Wizard will open. Select Install the software automatically (Recommended), then click Next.



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10. The installation wizard will search for the correct drivers. After a moment, a window will pop up cautioning 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.

Hardwar	re Installation
<u>.</u>	The software you are installing for this hardware: MDXA USB Serial Port has not passed Windows Logo testing to verify its compatibility with Windows XP. [Tell me why this testing is important.] Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly contact the hardware vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

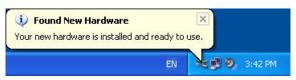
11. Windows will spend a few moments installing the driver.

e software		
2	Ø	
		Cancel
	2	2

12. The next window indicates that Windows has completed the installation. Click **Finish** to proceed with installation procedure.

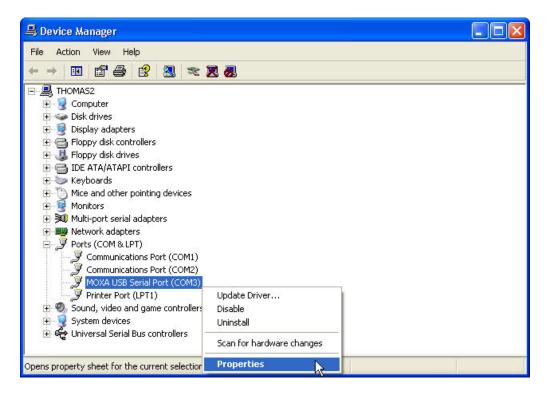


13. The Found New Hardware balloon will reappear, indicating that the installation was successful.



Configuring the COM Port

After the driver and hardware have been successfully installed, the new COM port will have a COM number and can be accessed and controlled just like your PC's built-in COM ports. If you need to change the baud rate, parity, or other COM port settings, you may use your serial communication application to make those changes. You may also go to Device Manager and right-click the **MOXA USB Serial Port**, which will be listed under **Ports** along with your PC's built-in COM ports. In the context menu that pops up, you may select **Properties** in order to modify the COM port settings.



Configuring the Adaptor

If you need to change the COM number that the adaptor assigns to the COM port, or adjust other advanced settings, you may go to Device Manager and right-click the UPort adaptor, which will be listed under **Multi-port serial adaptors**. In the context menu that pops up, you may select **Properties** in order to modify the COM port settings.

📇 Device Manager	
File Action View Help	
THOMAS2 Computer Disk drives Floppy disk controllers Floppy disk controllers Floppy disk drives DE ATA/ATAPI controllers Keyboards Mice and other pointing devices Monitors Multi-port serial adapters Mox USB Communical Mox USB Sound, video arcegone concourse System devices Universal Serial Bus controllers	
Opens property sheet for the current selection.	

In the **Port Configuration** tab, you will see the new COM port listed. Click **Port Setting** to modify the COM number and other parameters.

UPort 1150 Properties	? ×
General Ports Configuration Driver Details	
Port COM No. Fast Flush Interface	
1 COM3 Enable RS-232	
Port Setting	
OK Ca	ncel



ATTENTION

Before modifying these settings, make sure that you have closed any applications that may be accessing the COM port, such as HyperTerminal.

You may change the Port Number and enable or disable the Fast Flush function. For the UPort 1130, you may also select between RS-422, 2-wire RS-485, and 4-wire RS-485 modes. Please note that **Auto Enumerating COM Number** and **Set the change to all ports** are not available for this model of UPort.

Port Number	COM3 (current)
Г Au	uto Enumerating COM Numbe
Fast Flush	Enable
	C Disable
Г Se	at the change to all ports
Interface	RS-232
	RS-232 et t RS-422
E Se	10-422
L St	RS-485 2W RS-485 4W

* The UPort 1100 only supports RS-232. For this reason, when using the UPort 1100, the Interface drop-down box will be inactive.

*The UPort 1150/1150I support RS-232, RS-422, 2-wire RS-485, and 4-wire RS-485. The default setting is RS-232.

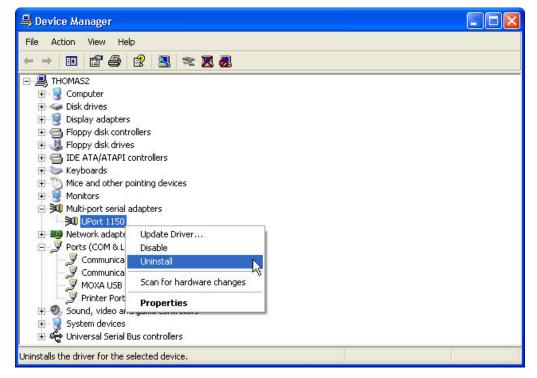
The Fast Flush function is specifically designed to handle Win32 PurgeComm() function calls and is enabled by default. When Fast Flush is enabled, the driver will automatically clear the local buffer when it receives a PurgeComm() command. When Fast Flush is disabled, the driver will repeatedly query the adaptor until it verifies that there is no more data in the buffer. Disabling this function can cause lower throughput for applications that use PurgeComm() heavily.

Removing the Adaptor

The adaptor is a plug and play device. No special procedures are required to remove the adaptor; you may simply pull the adaptor out of the USB port. You should verify that no data is being transmitted before removing the adaptor.

Removing the adaptor does not remove the drivers. The drivers remain in place so that the adaptor can be automatically detected and installed if it is pluged back into the USB port.

The adaptor can also be uninstalled through the Device Manager, the same as other Windows devices. Right-click the adaptor, which will be found under **Multi-port serial adaptors**, then select **Uninstall** from the context menu.



Uninstalling the Driver

The UPort driver may be removed through Add/Remove Programs in the Windows Control Panel. Click **Remove** next to **MOXA UPort 1110/1130 Windows Driver Ver1.3**.

	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	
ange or move	Modbus_Tool		Size	0.26ME
ograms	🚱 Moxa ioMirror		Size	3.09ME
2	🕞 MOXA UPort 1110/1130/1150 Windows Driver Ver1.	5	Size	0.93ME
🕑 d New	Click here for support information.		Used	rarely
grams			Last Used On	1/7/2008
7	To remove this program from your computer, click Remove.			Remove
Remove	BXML 6.0 Parser (KB925673)		Size	1.31MB
ndows	🛃 Network Enabler Administrator 2.10		Size	2.47ME
Jonenes	🐝 NPort Administration Suite Ver1.8		Size	2.85ME
	🐝 NPort Windows Driver Manager		Size	1.54ME
rogram	Normalite Ver1.3		Size	2.80ME
ess and faults	Norme Pro Ver 2.0		Size	2.45ME
	🕞 Windows Installer 3.1 (KB893803)			
	🔂 Windows XP Service Pack 2			
ld or Re	B WinPcap 4.0		Size	
id or Re		Show up <u>d</u> ates	Size	
nge or	move Programs Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	
6	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name Size	0.26M
nge or move	Move Programs Currently installed programs: Modbus_Tool Moxa ioMirror		Sort by: Name Size Size	0.26MI 3.09MI
nge or move grams	Currently installed programs:		Sort by: Name Size	0.19ME
nge or move	move Programs Currently installed programs: Modbus_Tool Moxa ioMirror MOXA UPort 1110/1130/1150 Windows Driver Ver1.		∑ort by: Name Size Size Size	0.26Mt 3.09Mt 0.93Mt rareb
nge or move grams	move Programs Currently installed programs: Modbus_Tool Moxa ioMirror MOXA UPort 1110/1130/1150 Windows Driver Ver1.		Sort by: Name Size Size Size Used	0.26Mt 3.09Mt 0.93Mt rareb 1/7/2008
inge or move grams	Move Programs Currently installed programs: Modbus_Tool Moxa ioMirror MOXA UPort 1110/1130/1150 Windows Driver Ver1.: Click here for support information To remove this program from your computer, click Remove.	5	Sort by: Name Size Size Size Used	0.26MI 3.09MI <u>0.93MI</u> rarely 1/7/2008 Remove
nge or move grams	Move Programs Currently installed programs: Modbus_Tool Moxa ioMirror MOXA UPort 1110/1130/1150 Windows Driver Ver1.3 Click here for support information.	5	Sort by: Name Size Size Size Used	0.26MI 3.09MI 0.93MI rareb 1/7/2008 Remove 1.31MI
nge or move grams	Move Programs Currently installed programs: Modbus_Tool Moxa ioMirror MOXA UPort 1110/1130/1150 Windows Driver Ver1.: Click here for support information To remove this program from your computer, click Remove.	5 ninstall	Sort by: Name Size Size Used Last Used On	0.26Mt 3.09Mt 0.93Mt 1/7/2008 Remove 1.31Mt 2.47Mt
nge or move grams	Move Programs Currently installed programs: Modbus_Tool Moxa ioMirror MOXA UPort 1110/1130/1150 Windows Driver Ver1.3 Click here for support information. To remove this program from your computer, click Remove. MOXA UPort 1110/1130/1150 Windows Driver U MOXA UPort 1110/1130/1150 Windows Driver was MOXA UPort 1110/1130/1150 Windows Driver was	5 ninstall	Sort by: Name Size Size Used Last Used On	0.26MI 3.09MI
nge or move grams I New grams Remove dows soments	Move Programs Currently installed programs: Modbus_Tool Moxa ioMirror MOXA UPort 1110/1130/1150 Windows Driver Ver1.: Click here for support information To remove this program from your computer, click Remove. MOXA UPort 1110/1130/1150 Windows Driver U	5 ninstall	Sort by: Name Size Size Used Last Used On	0.26MI 3.09MI 0.93MI rarely 1/7/2008 Remove 1.31MI 2.47MI 2.85MI
nge or move grams I New grams Remove dows soonents	Move Programs Currently installed programs: Modbus_Tool Moxa ioMirror MOXA UPort 1110/1130/1150 Windows Driver Ver1.3 Click here for support information. To remove this program from your computer, click Remove. MOXA UPort 1110/1130/1150 Windows Driver U MOXA UPort 1110/1130/1150 Windows Driver was MOXA UPort 1110/1130/1150 Windows Driver was	5 ninstall	Sort by: Name Size Size Used Last Used On	0.26Ml 3.09Ml 0.93Ml rareb 1/7/2008 Remove 1.31Ml 2.47Ml 2.85Ml 1.54Ml
nge or move grams	Move Programs Currently installed programs: Modbus_Tool Moxa ioMirror MOXA UPort 1110/1130/1150 Windows Driver Ver1.: Click here for support information. To remove this program from your computer, click Remove. MOXA UPort 1110/1130/1150 Windows Driver U MOXA UPort 1110/1130/1150 Windows Driver was MOXA UPort 1110/1130/1150 Windows Driver was NOXA UPort 1110/1130/1150 Windows Driver was NOXA UPort 1110/1130/1150 Windows Driver was	5 ninstall	Sort by: Name Size Size Used Last Used On	0.26M 3.09M <u>0.93M</u> <u>rarel</u> 1/7/200 Remove 1.31M 2.47M 2.85M 1.54M 2.80M

Install Linux driver for UPort 1100 Series

- Execute the following commands from the Linux prompt: #mount/dev/cdrom /mnt/cdrom #cd / #mkdir moxa #cd moxa #cp /mnt/cdrom/<driver directory>/ driv_linux2.6_uport1p_vx.x_build_xx.tgz #tar xvfz driv_linux2.6_uport1p_vx.x_build_xx.tgz
- 2. #cd mxu11x0/driver #make clean; make install
- 3. #modprobe mxu11x0

3 Pin Assignment

UPort DB9 Pin Assignments

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

DB9 (male)	Pin	RS-232	RS-422 4-wire RS-485	2-wire RS-485
	1	DCD (in)	TxD-(A)	-
1 5	2	RxD (in)	TxD+(B)	-
	3	TxD (out)	RxD+(B)	Data+(B)
	4	DTR (out)	RxD-(A)	Data-(A)
	5	GND	GND	GND
6 9	6	DSR (in)	-	-
	7	RTS (out)	-	-
	8	CTS (in)	_	_

Terminal Block Pin Assignments

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

Terminal Block	Pin	RS-422 4-wire RS-485	2-wire RS-485
	1	TxD+(B)	-
	2	TxD-(A)	-
	3	RxD+(B)	Data+(B)
	4	RxD-(A)	Data-(A)
1 5	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.