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# **USB Virtual COM Quick Start**

## **User Guide**

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**RF ID<sub>EAS</sub>**

## Install the Windows CDC Reader Configuration Utility

1. Plug the pcProx CDC device into the USB port. The Found New Hardware Wizard displays.



2. Select **Yes, this time only**. Click **Next**.
3. Check **Include this location in the search**.
4. Uncheck **Search removable media (floppy, CD-ROM...)**.

5. Select **Install from a list or specific location (Advanced)**. Click **Next**.
6. Click **Browse** and select the appropriate location. Click **Next**.



The Wizard installs the pcProx configuration utility.

7. Click **Finish**.



## Verify COM Port Connection

1. Click **Start** → **Control Panel** → **System**.



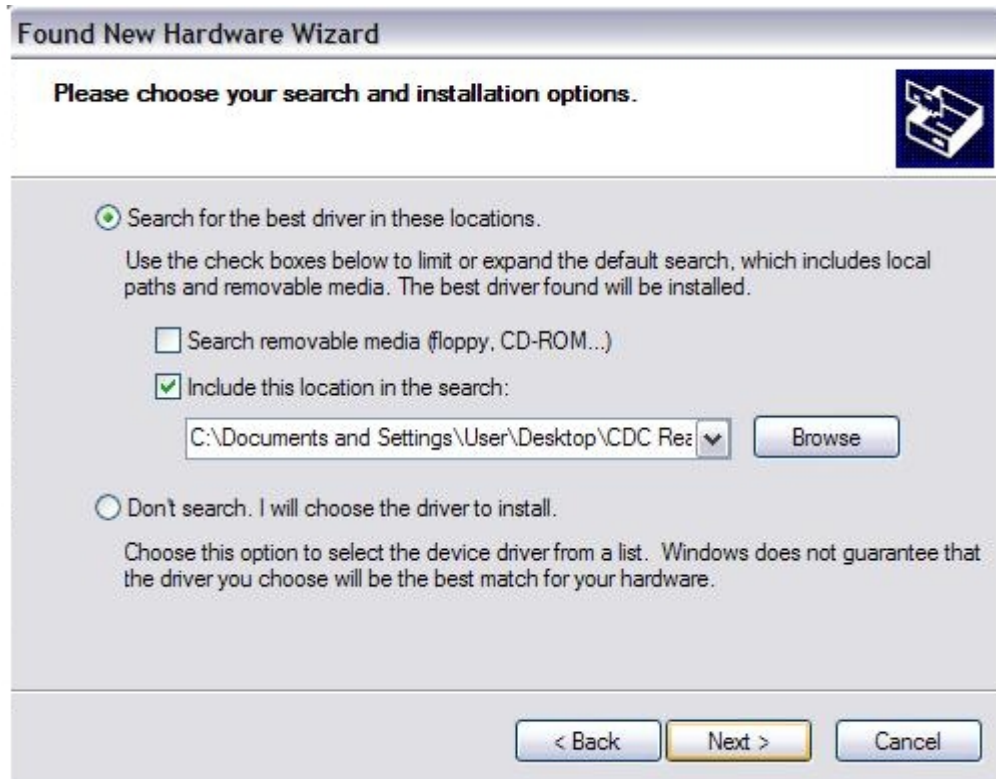
2. Click the **Device Manager**. Open the **Ports** list. Verify a new COM port is assigned to the CDC device.
3. Close Device Manager.

## Vista Installation

1. Plug the pcProx CDC device into the USB port. The Found New Hardware Wizard displays.
2. Select **Install from a list or specific location (Advanced)**. Click **Next**.



3. Check **Include this location in the search**.
4. Uncheck **Search removable media (floppy, CD-ROM...)**.



5. Click **Browse** and select the appropriate location. Click **Next**.

The Wizard installs the pcProx configuration utility.

6. Click **Finish**.



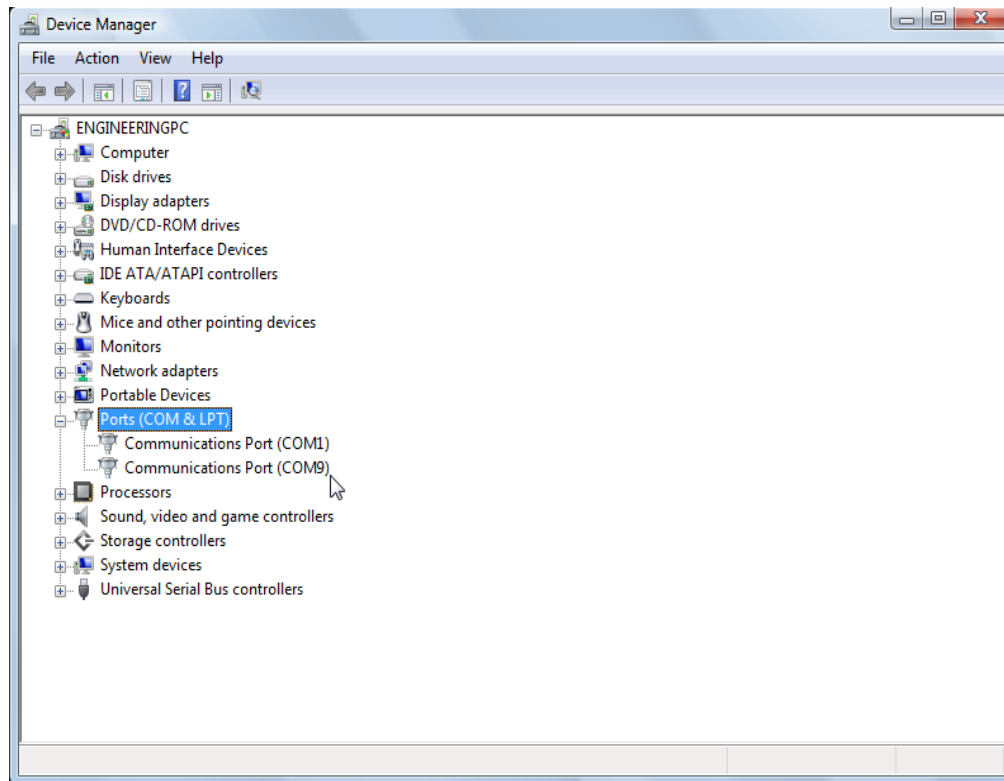


## Verify COM Port Connection

1. Click **Start** → **Control Panel** → **Device Manager**.



2. Open the **Ports** list. Verify a new COM port is assigned to the CDC device.



3. Close Device Manager.

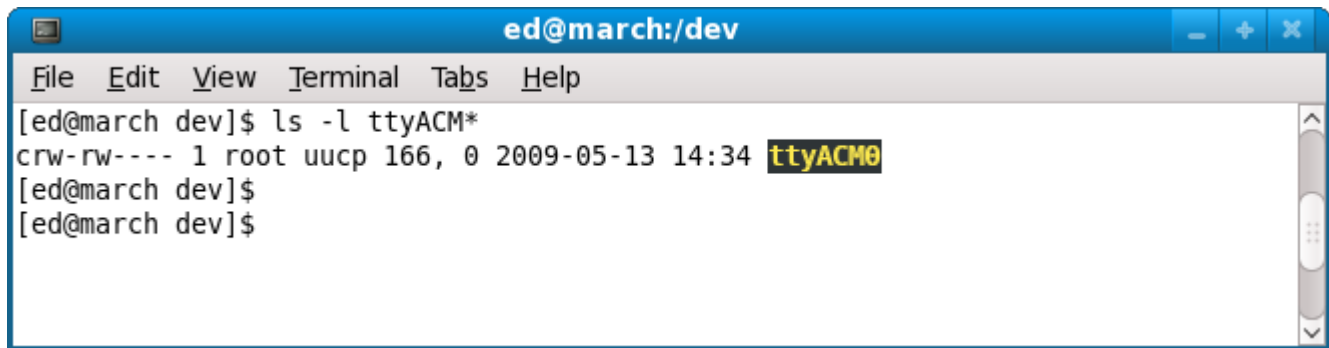
## Linux Installation

1. Enter `cd /dev` to change directories.
2. Enter `ls -ltra` to sort the files by date.

Note any files with today's date.

3. Plug in the device. Wait for the LED to turn red.
4. Enter `ls -ltra` in the /dev directory.

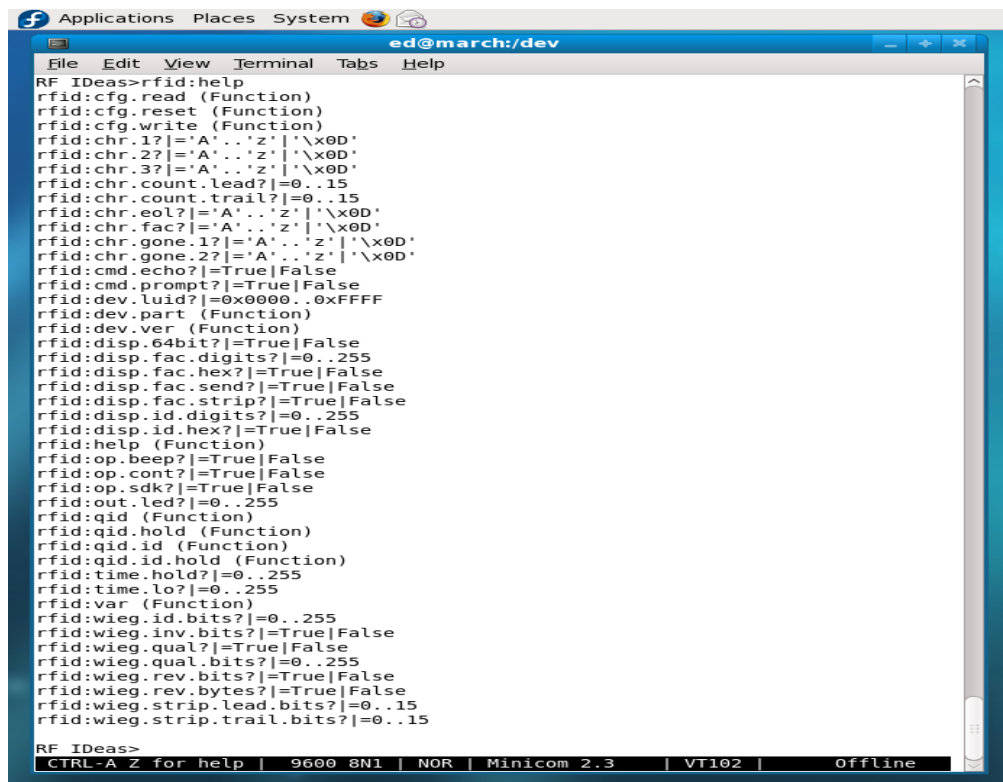
Typically, a new device file 'ttyACM0' displays in the file list.



```
ed@march:/dev
File Edit View Terminal Tabs Help
[ed@march dev]$ ls -l ttyACM*
crw-rw---- 1 root uucp 166, 0 2009-05-13 14:34 ttyACM0
[ed@march dev]$
[ed@march dev]$
```

5. Open minicom. Press **Enter**.

6. Type `rfid:help` at the RFIdeas prompt.



```
RF IDEas>rfid:help
rfid:cfg.read (Function)
rfid:cfg.reset (Function)
rfid:cfg.write (Function)
rfid:chr.1?|= 'A'..'z'|'\x0D'
rfid:chr.2?|= 'A'..'z'|'\x0D'
rfid:chr.3?|= 'A'..'z'|'\x0D'
rfid:chr.count.lead?|=0..15
rfid:chr.count.trail?|=0..15
rfid:chr.eol?|= 'A'..'z'|'\x0D'
rfid:chr.fac?|= 'A'..'z'|'\x0D'
rfid:chr.gone.1?|= 'A'..'z'|'\x0D'
rfid:chr.gone.2?|= 'A'..'z'|'\x0D'
rfid:cmd.echo?|=True|False
rfid:cmd.prompt?|=True|False
rfid:dev.luid?|=0x0000..0xFFFF
rfid:dev.part (Function)
rfid:dev.ver (Function)
rfid:disp.64bit?|=True|False
rfid:disp.fac.digits?|=0..255
rfid:disp.fac.hex?|=True|False
rfid:disp.fac.send?|=True|False
rfid:disp.fac.strip?|=True|False
rfid:disp.id.digits?|=0..255
rfid:disp.id.hex?|=True|False
rfid:help (Function)
rfid:op.beep?|=True|False
rfid:op.cont?|=True|False
rfid:op.sdk?|=True|False
rfid:out.led?|=0..255
rfid:qid (Function)
rfid:qid.hold (Function)
rfid:qid.id (Function)
rfid:qid.id.hold (Function)
rfid:time.hold?|=0..255
rfid:time.lo?|=0..255
rfid:var (Function)
rfid:wieg.id.bits?|=0..255
rfid:wieg.inv.bits?|=True|False
rfid:wieg.qual?|=True|False
rfid:wieg.qual.bits?|=0..255
rfid:wieg.rev.bits?|=True|False
rfid:wieg.rev.bytes?|=True|False
rfid:wieg.strip.lead.bits?|=0..15
rfid:wieg.strip.trail.bits?|=0..15

RF IDEas>
```

CTRL-A Z for help | 9600 8N1 | NOR | Minicom 2.3 | VT102 | Offline

**Note:** The baud rates do not matter for CDC devices.

## MAC Installation

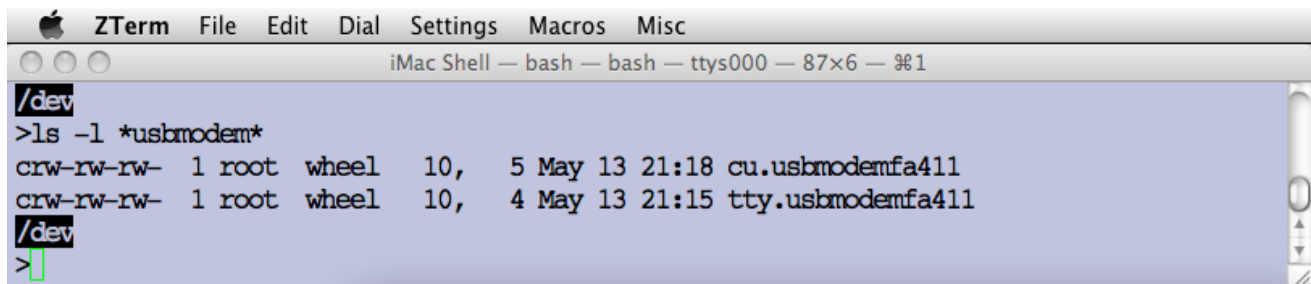
1. Enter `cd /dev` to change directories.
2. Enter `ls -ltra` to sort the files by date.

Note any files with today's date.

3. Plug in the device. Wait for the LED to turn red.
4. Enter `ls -ltra` in the /dev directory.

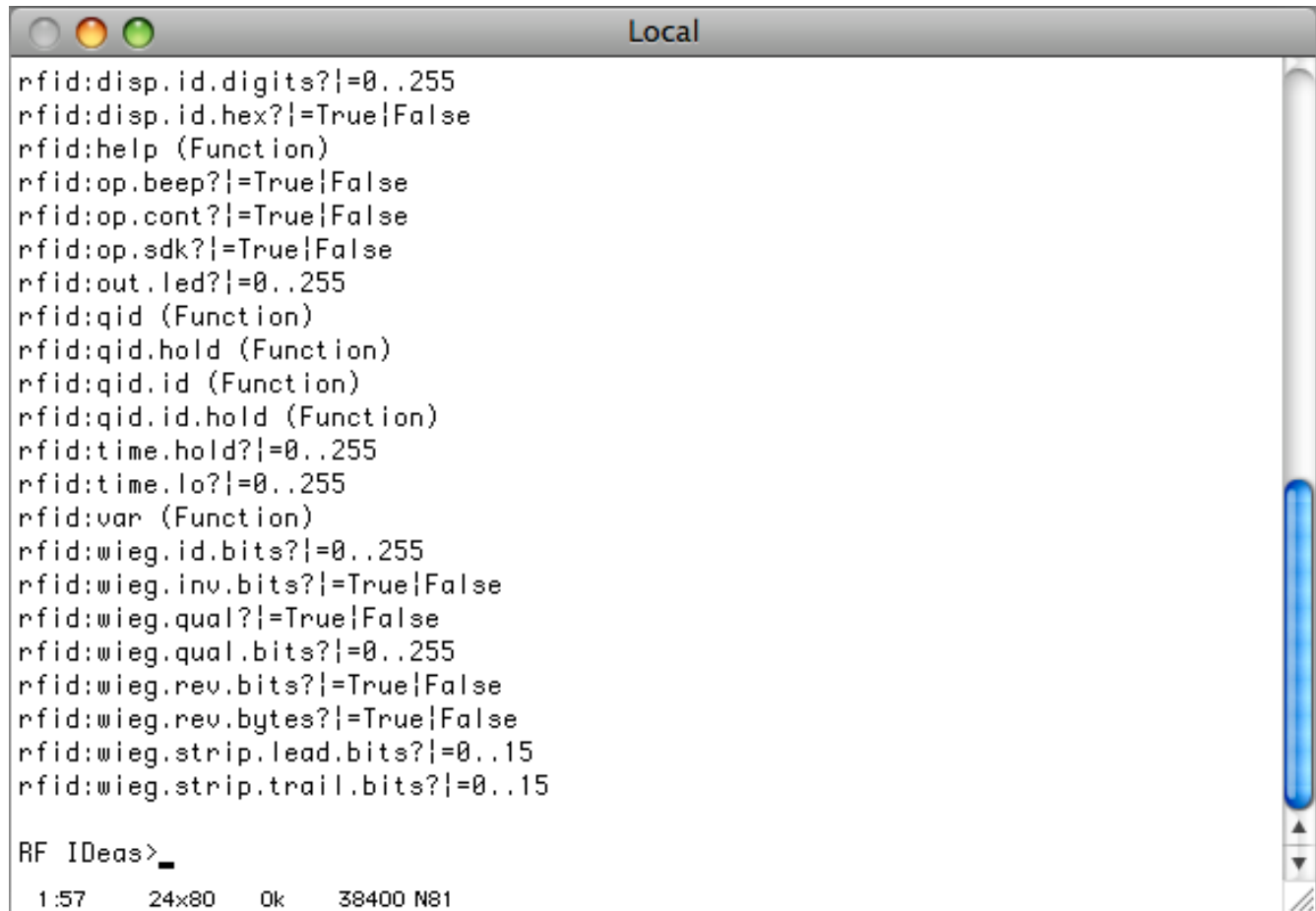
A new device file displays in the file list:

```
/dev/cu.usbmodemXXXXX  
/dev/tty.usbmodemXXXXX
```



```
Apple ZTerm File Edit Dial Settings Macros Misc  
iMac Shell — bash — bash — ttys000 — 87x6 — %1  
/dev  
>ls -l *usbmodem*  
crw-rw-rw-  1 root  wheel   10,   5 May 13 21:18 cu.usbmodemfa411  
crw-rw-rw-  1 root  wheel   10,   4 May 13 21:15 tty.usbmodemfa411  
/dev  
>
```

5. Download ZTerm (shareware) to display the serial devices.
6. Type **rfid:help** at the RFIDEas prompt.



```
rfid:disp.id.digits?=0..255
rfid:disp.id.hex?=True|False
rfid:help (Function)
rfid:op.beep?=True|False
rfid:op.cont?=True|False
rfid:op.sdk?=True|False
rfid:out.led?=0..255
rfid:qid (Function)
rfid:qid.hold (Function)
rfid:qid.id (Function)
rfid:qid.id.hold (Function)
rfid:time.hold?=0..255
rfid:time.lo?=0..255
rfid:var (Function)
rfid:wieg.id.bits?=0..255
rfid:wieg.inv.bits?=True|False
rfid:wieg.qual?=True|False
rfid:wieg.qual.bits?=0..255
rfid:wieg.rev.bits?=True|False
rfid:wieg.rev.bytes?=True|False
rfid:wieg.strip.lead.bits?=0..15
rfid:wieg.strip.trail.bits?=0..15

RF IDEas>_
1:57 24x80 0k 38400 N81
```

**Note:** The baud rates do not matter for CDC devices.

## Configuration Commands

All configuration commands begin with **rfid:**. Commands are not case sensitive.

Enter the following commands to familiarize yourself with the device:

- RF IDEas>**rfid:help** to get a list of commands
- RF IDEas>**rfid:var** to see the variables
- RF IDEas>**rfid:qid** to get the queued ID from the card
- RF IDEas>**rfid:op.sdk=t** to turn off the serial data
- RF IDEas>**rfid:op.sdk=f** to turn ON the serial data

For more details on these commands go to the 'ASCII Command Protocol' section in the *pcProx*, *pcProx Plus*, *AIR ID Enroll* and *Wiegand Converter Configuration Utility User Manual*.