USB Virtual COM Quick Start

User Guide



99009080a

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**.

Please choose your search and installation options.		
 Search 	ch for the best driver in these locations.	
Use t paths	he check boxes below to limit or expand the default search, which includes local and removable media. The best driver found will be installed.	
	Search removable media (floppy, CD-ROM)	
	Include this location in the search:	
	C:\Documents and Settings\User\Desktop\CDC Rea Setures Browse	
O Don't	search. I will choose the driver to install.	
Choo the d	se this option to select the device driver from a list. Windows does not guarantee the iver you choose will be the best match for your hardware.	
	< Back Next > Cancel	

The Wizard installs the pcProx configuration utility.



7. Click Finish.





Verify COM Port Connection

1. Click Start \rightarrow Control Panel \rightarrow 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...).

Found New Hardware Wizard		
Please choose your search and installation options.		
• Search for the best driver in these locations.		
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.		
Search removable media (floppy, CD-ROM)		
✓ Include this location in the search:		
C:\Documents and Settings\User\Desktop\CDC Rea		
O Don't search. I will choose the driver to install.		
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.		
< Back Next > Cancel		

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 \rightarrow Control Panel \rightarrow Device Manager.





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

🚽 Device Manager	- 0 <mark>- X</mark>
File Action View Help	
ENGINEERINGPC	
E	
By Display adapters	
Berlines	
Keyhoards	
Keyboards	
Monitors	
Retwork adapters	
🗉 🔟 Portable Devices	
🖶 🖓 Ports (COM & LPT)	
Communications Port (COM1)	
Communications Port (COM9)	
🖶 🛄 Processors 🖓	
😥 🛋 Sound, video and game controllers	
🗄 🔆 Storage controllers	
🗄 👰 System devices	
🗄 🖷 🏺 Universal Serial Bus controllers	

3. Close Device Manager.

RF IDEAS

Linux Installation

- 1. Enter cd /dev to change directories.
- 2. Enter Is -Itra 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 Is -Itra in the /dev directory.

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

ed@march:/dev	-	÷	×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> erminal Ta <u>b</u> s <u>H</u> elp			
[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]\$			
			\sim

5. Open minicom. Press Enter.



6. Type **rfid:help** at the RFIDeas prompt.

ed@march:/dev 📃 🐳 🗶						
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> erminal Ta <u>b</u> s <u>H</u> elp						
RF IDeas>rfid:help						
rfid:cfg.read (Function)						
rfid:cfg.reset (Function)						
rfid:chr.ll='(rinclin)						
rfid:chr.2? ='A''z' '\x0D'						
rfid:chr.3? ='A''z' '\x0D'						
rfid:chr.count.lead? =015						
rfid:chr.count.trail?]=015						
riid:chr.eolr ='A''Z' '\X0D'						
rfid:chr.gope.121='A''2' '\x0D'						
rfid:chr.gone.2? ='A''z' '\x0D'						
rfid:cmd.echo? =True False						
rfid:cmd.prompt? =True False						
rfid:dev.luld? =0x00000xFFFF						
rfid:dev.part (runction)						
rfid:disp.64bit?l=TruelFalse						
rfid:disp.fac.digits? =0255						
rfid:disp.fac.hex? =True False						
rfid:disp.fac.send? =True False						
rfid:disp.tac.strlp/==rue=ratse						
rfid:disp.id.hex?l=TruelFalse						
rfid:help (Function)						
rfid:op.beep? =True False						
rfid:op.cont? =True False						
rfid:op.sdk? =True False						
rfid:out.teg/=0.255						
rfid:gid.hold (Function)						
rfid:qid.id (Function)						
rfid:qid.id.hold (Function)						
rfid:time.hold? =0255						
rfid:time.to/=0.255						
rfid:wieq.id.bits?l=0255						
rfid:wieg.inv.bits? =True False						
rfid:wieg.qual? =True False						
rfid:wieg.qual.bits? =0255						
rfid:wieg.rev.bits? =True False						
rfid.wieg.strip.lead.bits21=0.15						
rfid:wieg.strip.trail.bits? =015						
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 Is -Itra 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 Is -Itra in the /dev directory.

A new device file displays in the file list:

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





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

$\bigcirc \bigcirc \bigcirc \bigcirc$	Local				
rfid:disp.id.digits?¦=0255					
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?¦=0255					
rfid:qid (Function)					
rfid:qid.hold (Function)					
rfid:qid.id (Function)					
rfid:qid.id.hold (Function)					
rfid:time.hold?¦=0255					
rfid:time.lo?¦=0255	·				
rfid:var (Function)					
rfid:wieg.id.bits?¦=0255					
rfid:wieg.inv.bits?¦=True¦False					
rfid:wieg.qual?¦=True¦False					
rfid:wieg.qual.bits?¦=0255					
rfid:wieg.rev.bits?¦=True¦False					
rfid:wieg.rev.bytes?¦=True¦False					
rfid:wieg.strip.lead.bits?¦=015					
rfid:wieg.strip.trail.bits?¦=015					
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RF IDeas>_	T				
1:57 24×80 0k 38400 N81	1.				

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 the the 'ASCII Command Protocol' section in the pcProx, pcProx Plus, AIR ID Enroll and Wiegand Converter Configuration Utility User Manual.