Virtual Serial Port Driver Instructions - 64 bit Windows 7

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1) Download com0com driver. Note that com0com is an open source driver project, and is not a product of SoftWx, nor is there any affiliation between SoftWx and the author of com0com.

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Download Nowl						
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hub4com-2.0.0386.zip (180.6 KB)						
Browse Files for Null-modem emulator						
File/Folder Name Platf	form Size	Date ↓	Downloads	Notes/Subscribe	•	
Newest Files						
(com0com-2.2.1.0-x64-fre.zip	207.6 KI	2009-05-29	2,292	B		
Com0com-2.2.1.0-i386-fre.zip	182.1 KI	3 2009-05-29	12,487	1		
Com0com-2.2.1.0-i386-fre.zip	182.1 Ki 194.8 Ki	2009-05-29 2009-05-29	12,487 6,158		•	

2) Microsoft requires 64-bit drivers to be signed, but this is expensive for freeware driver authors like the author of com0com. As a workaround, you can configure the Windows boot loader to put Windows 7 into test driver mode. This allows test-signed drivers such as com0com to install and run in 64-bit Windows 7. If you do not like the idea of running Windows in this test mode, you can purchase a signed 64-bit virtual serial port driver from Eterlogic <u>http://www.eterlogic.com/Products.VSPE.html</u>.

Run a command prompt windows as administrator



3) Enter the command to enable Windows Test Mode



4) Success!!



5) You must now reboot the computer

Magnifier Command Prompt	Default Program	Switch user Log off Lock	
All Programs		Restart 🧲	
Search programs and files	Shut down 🕨	Sleep Hibernate	
🧐 🖉 🧾 💟			

6) After you reboot, Windows will be in Test Signing Mode, allowing installation and operation of test signed drivers such as com0com.



7) Run the setup.exe program from the com0com install file you downloaded earlier. You must run as administrator.





8) After the driver is installed, open the program for configuring com0com

9) Change the port names for the default Virtual Port Pair 0 to COM6 - COM16



10) Add another Virtual Port Pair



11) Configure Virtual Port Pair 1 to use COM7 - COM17

Virtual Port Pair 0	COM7	COMI
COM6 COM16 Out Pair 1 Out Pair 1	emulate baud rate enable buffer overrun enable plug-in mode enable exclusive mode enable hidden mode RX ←■	emulate baud rate enable buffer overrun enable plug-in mode enable exclusive mode enable hidden mode
	TX →●	°●- TX
	DTR	√ DTR
	DSR +-	+ DSR
		► DCD
	RTS -	✓————————————————————————————————————
	CTS +-	^•CTS
	RI +■(+	
	OUT1 -	● OUT1
	OUT2 -	- OUT2
		P OPEN
	0	N
Add Pair Remove P	O	

12) Repeat to create Virtual Port Pair 2 (COM8 - COM18), and Virtual Port Pair 3 (COM9 - COM19). When you are done, it should look like this:



13) Configure VirtualVP to use Virtual Serial Ports. In this example, we will connect the first Virtual Console to the WeatherLink program.

Communications Settings	X
Vantage Pro Console	
C Serial/USB COM Port COM1 - Baud Rate 19200 -	NOTE: Changes to most
Let VPLive restart the Davis USB data logger (only for USB data loggers)	of the settings on this page will not take effect
Ethernet (IP) Address wx1 Port 5512	until the next time you do
Temporarily release connection once per minute	a Connect.
Extra Timeout (for slow networks) 1000	
Allow Fast Looping (faster live data, but may effect reception)	
Virtual Console COM Port Settings	1
Enabled Name Console COM Port	
WeatherLink	
Virtual Console2	
Virtual Console3	
Virtual Console4	

VirtualVP		Virtual Conso	le Connections
by SoftWx	Henric	Last Heard	Last Sent To
Wirtual/VP Untime 1 hr 44 mins 1 sec	WeatherLink	Never	Never
VP Console Connection	Virtual Console2	Never	Never
Last Connect Today 5:55:36 PM	Virtual Console	Never	Never
Last Disconnect Today 5:47:55 PM	Virtual Console4	Never	Never
Last to VP <1 sec ago	WENC	Never	Never
Last from VP < 1 sec ago	Virtual Console6	Never	Never
Commands to VP 2,414	Virtual Console7	Never	Never
Replies from VP 2,413 Bytes to VP 22,637	Virtual Console8	Never	Never
Bytes from VP 332,136			

14) The next time you connect, VirtualVP should look like this:

15) Configure your weather programs to connect to VirtualVP via the Virtual Serial Ports. The following example configures the WeatherLink program.

🔭 Weathe	erLink 5.9.0 12/06/09 7::	6p: Somewhere			
File Setu	Communications Port				X
1					
	Communications		- - 1	01	
	• Serial	O USB	Iest	UK	
	C Modem		Help	Cancel	
	Com Port:		Loopback		
	Baud Rate:	19200 💌	Auto Detect		
	Hangup Wait Time:	1 min.			

16) Success!!



ADDENDUM) If you want to remove Test Signing mode from your computer, perform the following steps. If you remove Test Signing mode, the com0com driver not work on 64-bit Windows 7.

1) Run the command prompt as administrator.



2) Enter the following command:

Administrator: Command Prompt	
Microsoft Windows [Version 6.1.7100]	
Copyright (c) 2009 Microsoft Corporation. All rights reserved.	H
C:\Windows\system32> bcdedit.exe -set TESTSIGNING OFF	
	-

3) Reboot Windows.

Magnifier Command Prompt	Default Program	Switch user Log off Lock
All Programs		Restart 🧲
Search programs and files	Shut down	Sleep Hibernate
🧐 🖉 🧾 🗿		

4) And you will not be in Test Signing mode any more.

