

# COMMTECH

## ***FASTCOM<sup>®</sup> ADAPTERS***



### ***SOFTWARE INSTALLATION MANUAL***

**For all Asynchronous PCI-335 & LPCI-335 Cards,  
all Asynchronous PCI Cards,  
the Fastcom: 232/4-1M-PCI,  
the Fastcom: ESCC-PCI,  
the Fastcom: ESCC-PCI-335 & ESCC-LCPI-335,  
the Fastcom: ESCC-PCMCIA,  
and the SuperFastcom Family**

**Commtech, Inc. • 9011 E 37th St N • Wichita, KS 67226-2006**





# COMMTECH

9011 E. 37<sup>th</sup> STREET N.  
WICHITA, KANSAS 67226-2006

(316) 636-1131

FAX (316) 636-1163

<http://www.commtech-fastcom.com/>

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## REVISION NOTES

REVISION	PAGE NUMBER	CHANGES MADE
1.0	All	Document created 11/21/2002
1.1	1-3	Updated IRQ fix in 2K & XP; repaginated TOC
1.2	1-3	Updated Windows XP and Windows 2000
1.3	All	Added Fastcom: 232/4-1M-PCI and SuperFastcom-232/4, reformatted text
1.4	14-15	Changed to reflect new universal procedure for all SuperFastcom cards
1.5	All	Added page breaks to improve readability
1.6	19-21	Added Fastcom: ESCC-PCI-335
1.7	1-3	Added Fastcom: 422/4-PCI-335
1.8	17-19, 23-24	Changed examples directory
1.9	5-30	Changed wording of first step
1.10	27-34	Added ESCC-PCMCIA installation instructions
1.11		Added links to the following manuals:
	3	232/4-PCI-335
	3	232/4-LPCI-335
	3	422/2-PCI-335
	3	422/2-LPCI-335
	26	ESCC-LPCI-335
1.12	34	Added links to the following manuals: SuperFastcom/1-104 SuperFastcom/1-104-ET SuperFastcom/2-104 SuperFastcom-cPCI SuperFastcom-cPCI-ET SuperFastcom-cPCI-Rear/O SuperFastcom-cPCI-Rear/O-ET
1.13	6	Fixed numbering of Windows 2000 procedure
1.14	31-34	Added GSCC installation procedure
1.15	3	Added link to 232/8-PCI-335

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# Fastcom: Async-PCI-335 and Async-LPCI-335 Series Cards

## Windows XP

1. After installing the Fastcom Universal PCI board, start your computer. The “Found New Hardware” wizard opens after login to Windows.
- (Skip to step 5 if you have already copied the software from the CD or the web)
2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
  3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom RS232/422 PCI-335) and click the Copy Disk button.
  4. Choose a directory to install to (default = C:\AsyncPCI335) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
  5. Click Install from a list or a specified location. Click Next.
  6. Click Search for the best driver in these locations. Check “Include this location in the search.” Uncheck “Search removable media.” Click Browse and select the XP folder in the location you specified in step 4. Click OK and then click Next.
  7. A message will appear about Windows Logo testing. Click Continue Anyway.
  8. Click Finish. The Found New Hardware message should indicate that it has found a Multifunction Device and that it is looking for the software for it.
  9. Click Install from a list or specified location. Click Next.
  10. Click Search for the best driver in these locations. Check “Include this location in the search.” Uncheck “Search removable media.” Click Browse and select the XP folder in the location you specified in step 4. Click OK and then click Next.
  11. A message may appear about Windows Logo testing. Click Continue Anyway.
  12. Click Finish (if there are more ports on the board, number 8 – 12 will be repeated for each port).
  13. You may be asked to restart your PC.
  14. Now open your device manager: Right click on My Computer, choose Properties, choose the Hardware tab, and click the Device Manager button.
  15. Under the “Ports (COM & LPT)” heading, each of the Com ports that you just installed will be listed as Fastcom AsyncPCI Communications Port (COM#).
  16. If you want to change the COM port assignments, you can do so in the Device Manager. Right click on My Computer -> Properties -> Hardware -> Device Manager -> Ports. Double click on the one you want to change. Click the port settings tab and the advanced button. At the bottom of the Advanced Settings window is the Com Port Number; change this to be whatever you wish the port to be mapped to. Note, the Device Manager must be closed and re-opened, before it will display the new COM number.
  17. If you wish to change the settings of the Fastcom board, go to the Device Manager and open the properties page for the port you would like to change. Then click on the Fastcom AsyncPCI-335 Serial Settings tab. Here you will be able to adjust the Fastcom specific settings of the port. Refer to the hardware manual for detailed descriptions of the settings page.
  18. Please refer to the hardware manual for instructions on testing your installation.

## Windows 2000

1. After installing the Fastcom Universal PCI board, start your computer. The "Found New Hardware" wizard opens after login to Windows.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom RS232/422 PCI) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\fastcom) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. From the "Found New Hardware" wizard, click Next to continue. This wizard will complete the installation for this device: PCI Serial Port. Select "Search for a suitable driver for my device" and click Next.
6. Put a checkmark in the box for "Specify a location" and clear the rest of the boxes, then click Next.
7. Click the Browse button and locate the directory you specified above (default = c:\fastcom) and double click the "w2k" directory. Click Open and OK.
8. "Windows found a driver for this device" and the location where you just browsed should match. Click Next.
9. Digital Signature Not Found, Click Yes.
10. Completing the found new hardware wizard, click Finish.
11. Another "Found New Hardware" windows will open, indicating it has found a "Multifunction Device," this is the first communication port on the board.
12. From the "Found New Hardware" wizard, click Next to continue. This wizard will complete the installation for this device: Multifunction Device. Select "Search for a suitable driver for my device" and click Next
13. Put a checkmark in the box for "Specify a location" and clear the rest of the boxes, then click Next.
14. Click the Browse button and locate the directory you specified above (default = c:\fastcom) and double click the "w2k" directory. Click Open and OK.
15. "Windows found a driver for this device" and the location where you just browsed should match. Click Next.
16. Digital Signature Not Found, Click Yes.
17. Completing the found new hardware wizard, click Finish.
18. Several Hardware Wizard windows will open and close (one for each additional port on the board), automatically installing the software for the additional ports.
19. Now open your device manager: Right click on My Computer, choose Properties, choose the hardware tab, and click the device manager button. Under Ports (COM & LPT) heading, each of the Com ports that you just installed will be listed as Fastcom AsyncPCI Communications Port (COM#).
20. You may be asked to restart your computer for the changes to take affect.
21. If you want to change the COM port assignments, you can do so in the Device Manager. Right -click on My Computer -> Properties -> Hardware -> Device Manager -> Ports. Double click on the one you want to change. Click the port settings tab and the advanced button. At the bottom of the Advanced Settings window is the Com Port Number; change this to be whatever you wish the port to be mapped to.

22. If you wish to change the settings of the Fastcom board, go to the Device Manager and open the properties page for the port you would like to change. Then click on the Fastcom AsyncPCI-335 Serial Settings tab. Here you will be able to adjust the Fastcom specific settings of the port. Refer to the hardware manual for detailed descriptions of the settings page.
23. Please refer to the hardware manual for instructions on testing your installation.

## **Return to Product Manual**

**[Fastcom: 232/4-PCI-335](#)**

**[Fastcom: 232/4-LPCI-335](#)**

**[Fastcom: 232/8-PCI-335](#)**

**[Fastcom: 422/2-PCI-335](#)**

**[Fastcom: 422/2-LPCI-335](#)**

**[Fastcom: 422/4-PCI-335](#)**

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## Fastcom: Async-PCI Series Cards

### Windows XP

1. After installing the Fastcom: PCI board, start your computer. The "Found New Hardware" wizard opens after login to Windows. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom RS232/422 PCI) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\fastcom) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. Click Install from a list or a specified location. Click Next.
6. Click Search for the best driver in these locations. Check "Include this location in the search." Uncheck "Search removable media." Click Browse and select the XP folder in the location you specified in step 4. Click OK and then click Next.
7. A message will appear about Windows Logo testing. Click Continue Anyway.
8. Click Finish. The Found New Hardware message should indicate that it has found communication ports and that it is installing the software for them.
9. You may be asked to restart your PC.
10. Now open your device manager: Right click on My Computer, choose Properties, choose the Hardware tab, and click the Device Manager button.
11. Under the "Ports (COM & LPT)" heading, each of the Com ports that you just installed will be listed as Fastcom AsyncPCI Communications Port (COM#).
12. If you want to change the COM port assignments, you can do so in the Device Manager. Right click on My Computer -> Properties -> Hardware -> Device Manager -> Ports. Double click on the one you want to change. Click the port settings tab and the advanced button. At the bottom of the Advanced Settings window is the Com Port Number; change this to be whatever you wish the port to be mapped to.
13. If you wish to change the settings of the Fastcom board, go to the Device Manager and open the properties page for the port you would like to change. Then click on the Fastcom Serial Settings tab. Here you will be able to adjust the Fastcom specific settings of the port. Note that any change to the BaudTable will change all ports of a board; you cannot set multiple baud rates across the different ports of a single board. Refer to the hardware manual for more detailed descriptions of the settings page.
14. Please refer to the hardware manual for instructions on testing your installation.

## Windows 2000

1. After installing the Fastcom: PCI board, start your computer. The "Found New Hardware" wizard opens after login to Windows. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom RS232/422 PCI) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\fastcom) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. From the "Found New Hardware" wizard, click Next to continue. This wizard will complete the installation for this device: PCI Serial Port. Select "Search for a suitable driver for my device" and click Next.
6. Put a checkmark in the box for "Specify a location" and clear the rest of the boxes, then click Next.
7. Click the Browse button and locate the directory you specified above (default = c:\fastcom) and double click the "w2k" directory. Click Open and OK.
8. "Windows found a driver for this device" and the location where you just browsed should match. Click Next.
9. Digital Signature Not Found, Click Yes.
10. Completing the found new hardware wizard, click Finish.
11. Several "Found New Hardware" windows will open and close automatically, indicating "Communication Port." You may be asked to restart your computer after each port is installed. Do not do this! Instead wait until the last COM port is installed, and then restart your computer.
12. Now open your device manager: Right click on My Computer, choose Properties, choose the hardware tab, and click the device manager button. Under Ports (COM & LPT) heading, each of the Com ports that you just installed will be listed as Fastcom AsyncPCI Communications Port (COM#).
13. You may be asked to restart your computer for the changes to take affect.
14. If you want to change the COM port assignments, you can do so in the Device Manager. Right -click on My Computer -> Properties -> Hardware -> Device Manager -> Ports. Double click on the one you want to change. Click the port settings tab and the advanced button. At the bottom of the Advanced Settings window is the Com Port Number; change this to be whatever you wish the port to be mapped to.
15. If you wish to change the settings of the Fastcom board, go to the Device Manager and open the properties page for the port you would like to change. Then click on the Fastcom Serial Settings tab. Here you will be able to adjust the Fastcom specific settings of the port. Note that any change to the BaudTable will change all ports of a board; you cannot set multiple baud rates across the different ports of a single board. Refer to the hardware manual for more detailed descriptions of the settings page.
16. Please refer to the hardware manual for instructions on testing your installation.

## Windows NT 4

1. After installing the Fastcom: PCI board, start your computer. Boot Windows NT and log on as the administrator. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom RS232/422 PCI) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\fastcom) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. From the Start menu, select Run and type in c:\FASTCOM\nt\SERIALGT.EXE. Select OK. NT will return Init Error. Click OK.
6. The Fastcom: Serial Settings window will display. Click the Install Driver button at the bottom.
7. Each port for each board installed will be listed. The naming convention can be interpreted as follows:

FC2328P\_1\_0 Fastcom: 232/8-PCI, board 1, port 1

The board number will increment for each Fastcom board installed. The port number will restart at zero for each individual board.

8. Select the first port (\_0) for each board. Baud rate settings can be adjusted for the base channel only, except for CLOCK DIVISOR. Refer to the section in the hardware manual titled FASTCOM: SERIAL SETTINGS for a more detailed description of these settings.
9. To the left of the CLOCK DIVISOR check box you can see the COM: number that is assigned to this port. These COM: numbers are assigned automatically when you install the driver, starting at COM: 5. If you already have COMs at 5 and above, you must change the COM numbers to something not used.
10. You can manually change the COM: number to any unused number. Below the baud rate substitution table you will find a box labeled "COM:." You can use this box to change the COM number of the port; it can be used to change each of the installed ports' COM numbers.
11. Make a note the Windows NT COM: port assignments that have been made. You must know these assignments to access the ports.
12. When all changes have been made, select Exit. You will be reminded that you must reboot your PC for your changes to take effect. Your PC will not automatically reboot. This only applies to changes you have made to the default settings. It is not necessary to reboot if you have not made changes to the settings.
13. Please refer to the hardware manual for instructions on testing your installation.

## Windows 95/98

1. After installing the Fastcom: PCI board, start your computer and boot Windows. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.
2. If the Hardware Wizard starts, you should use the drivers located in the 98 directory of the installed software. If the Hardware Wizard doesn't start, you are using an older version of Windows 95; please use the drivers located in the 95 directory of the installed software.

(Skip to step 8 if you have already copied the software from the CD or the web)

3. If the hardware wizard started, click cancel so we can copy the software needed before we install.
4. Insert the Fastcom CD that was supplied with the board into your CD-Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
5. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom RS232/422 PCI) and click the Copy Disk button.
6. Choose a directory to install to (default=c:\fastcom) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
7. Restart the hardware wizard: right click on My Computer, go to properties, and select the Device Manager tab. Click Refresh. Users of 95 may need to select Start -> Settings -> Control Panel -> Add New Hardware to restart the wizard.
8. Add New Hardware wizard will start and find a PCI Serial Controller. Click Next. Check "Specify a location;" uncheck all others. Click Browse and select the c:\fastcom\95-98 directory (see step one to determine which one you should use). Click Next.
9. It should find the updated Fastcom: PCI driver. Click Next. Make sure the location of the driver is the same directory you just pointed to (\fastcom\95-98). Click Next. If it asks for the location of another file, point it to the same install directory and click OK.
10. Fastcom: xxx PCI Windows finished installing the software. Click finish. Restart your PC.
11. After Windows 95/98 finishes loading, select Run from the Start menu and type c:\Fastcom\98\SERIALGT.EXE Select OK.
12. Adjust the settings as needed. Below the baud rate substitution table you will find a box labeled "COM:." This box will be blank. To the left of the CLOCK DIVISOR check box you can see the COM: number that is assigned to this port. These COM: numbers are assigned automatically when you install the driver, starting at COM: 5. You can manually change the COM: number to any unused number. Refer to the section in the hardware manual titled FASTCOM: SERIAL SETTINGS for a more detailed description of these settings.
13. The Fastcom PCI Drivers will keep track of all Fastcom PCI boards which you install, and will avoid COM: port assignment conflicts. These assignments may create conflicts with other COM: port assignments you have previously made. In order to check this, you will need to reboot the computer, then open the Start menu, select Settings -> Control Panel -> System -> Device Manager -> Ports (COM & LPT). If you see conflicts, rerun c:\FASTCOM\98\SERIALGT.EXE and assign new COM: port numbers to the conflicting ports.
14. Run SERIALGT.EXE again and verify your settings. Note the Windows 95/98 COM: port assignments that have been made.

(Note: Any time you make changes in the serialgt.exe program, you will need to reboot your machine before they will take effect. If you do not make changes, you do not need to reboot.)

15. Once you have assigned COM port numbers to each of the ports, selected the options you would like to use, and you do not see any conflicts, you are ready to use your new ports.
16. Please refer to the hardware manual for instructions on testing your installation.

## Linux

1. After installing the Fastcom: PCI board, start your computer, boot Linux. Ignore any messages about found new hardware. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.
2. Use the tarball on the CD or download a new one from the web. Run "tar -xvzf fastcom-pci-linux.tar.gz" (without quotes) to expand the file in the PWD.
3. > cd fastcom-pci-linux
4. > cd fastcom-pci-utils

(These steps (5-9) only need to be executed once after initial download/install.)

5. > ./config
6. > make
7. > make install
8. > fastcom\_setup
9. Select installed board from menu.
  - a. Enter clock rate (us 1843200.0 for standard baud rates).
  - b. May have additional settings depending on card installed.
    - i. CTS disabled? Yes will disable CTS from the connector and always return true.
    - ii. 485 mode enabled? Yes will enable 485 mode, no will disable 485 mode.
    - iii. RX ECHO cancel enabled? Yes will disable the RX line during transmits. (Note there is a software echo that is enabled and disabled with stty)
    - iv. Configure RTS as RS-485 driver Enable?
      1. Yes will control the 485 transmitter with the RTS line.
      2. No will control the 485 transmitter with the OUT1 line (facilitates automatic 485 control using special feature of 16c850).
  - c. Exit and save config from menu.

(Steps 10 - 12 must be executed at each boot/reboot (as root).)

10. > fastcom\_config (Note the values for IRQ and I/O).
11. > setserial -b /dev/ttySxx port 0xyyyy irq zz autoconfig

(Note: If your card supports 485 mode and you wish to enable 485, replace the autoconfig with "uart 16550")

(Note: If your card is a four port or an eight-port card, include "fourport" in the setserial command enabling the interrupt status register.)

(Note: xx is a number; address yyyy & zzz are reported to you by fastcom\_config)

12. (Optional) > stty -F /dev/fastcom1 ospeed 115200 ispeed 115200 parenb -hupcl -icrnl -icanon min 16 - echo

### Linux Examples:

```
> fastcom_config
```

```
Fastcom: 422/2-PCI IRQ:10 I/O:0x6600
```

```
> setserial -b /dev/ttyS3 port 0x6600 irq 10 autoconfig (the number used /dev/ttyS? is up to you)
```

> setserial -b /dev/ttyS4 port 0x6608 irq 10 autoconfig (the number used /dev/ttyS? is up to you)  
or  
> setserial -b /dev/ttyS7 port 0x6600 irq 10 uart 16550 ^fourport (to enable 485 and ISR support).  
or a more complex configuration for you control hounds out there:  
> fastcom\_config  
Fastcom: 422/4-PCI IRQ:4 I/O:xe8e0  
> setserial -b /dev/fastcom1 port 0xe8e0 irq 4 uart 16550 fourport baud\_base 115200  
> setserial -b /dev/fastcom2 port 0xe8e8 irq 4 uart 16550 fourport baud\_base 115200  
> setserial -b /dev/fastcom3 port 0xe8f0 irq 4 uart 16550 fourport baud\_base 115200  
> setserial -b /dev/fastcom4 port 0xe8f8 irq 4 uart 16550 fourport baud\_base 115200  
> stty -F /dev/fastcom1 ospeed 115200 ispeed 115200 parenb -hupcl -icrnl -icanon min 16 -echo  
> stty -F /dev/fastcom2 ospeed 115200 ispeed 115200 parenb -hupcl -icrnl -icanon min 16 -echo  
> stty -F /dev/fastcom3 ospeed 115200 ispeed 115200 parenb -hupcl -icrnl -icanon min 16 -echo  
> stty -F /dev/fastcom4 ospeed 115200 ispeed 115200 parenb -hupcl -icrnl -icanon min 16 -echo  
See the manual pages for stty and setserial for a more in-depth description of their options.

## Return to Product Manual

[Fastcom: 232/4-PCI](#)

[Fastcom: 232/8-PCI](#)

[Fastcom: IG232/2-PCI](#)

[Fastcom: 422/2-PCI](#)

[Fastcom: 422/4-PCI](#)

[Fastcom: IG422/1-PCI](#)

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## Fastcom: 232/4-1M-PCI

### Windows XP

1. After installing the Fastcom: 232/4-1M into a PCI slot, start your computer. The "Found New Hardware wizard opens after login to Windows. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom: 232/4-1M PCI) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\fc23241m) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The Found New Hardware Wizard will appear indicating that it would like to install software for PCI Serial Port.
6. Select Install from a list or specific location and click Next.
7. Check the box next to Include this location in the search, and browse to the folder specified in step four above. Clear all other check boxes. Click Next.
8. A window will open indicating that the Fastcom 232/4-1M has not passed Windows Logo testing. Click Continue Anyway.
9. Completing the Found New Hardware Wizard, Click Finish.
10. The Found New Hardware Wizard box will reappear indicating that it would like to install software for a Multifunction Device.
11. Select Install from a list or specific location and click Next.
12. Check the box next to Include this location in the search and browse to the xp folder found in the location specified above. Click Next.
13. A window will open indicating that the Fastcom MegaBuad Communications Port has not passed Windows Logo testing. Click Continue Anyway.
14. A Found New Hardware Wizard window will open up for each of the additional ports on your card. You may now use the Install the Software Automatically (Recommended) button and click Next.
15. A taskbar information window will open indicating that Your new hardware is installed and ready to use.
16. You may be asked to reboot your machine. Your new Fastcom Ports are now ready for use.

## Windows 2000

1. After installing the Fastcom: Fastcom: 232/4-1M board into a PCI slot, start your computer. The "Found New Hardware" wizard opens after login to Windows. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom: 232/4-1M) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\fc23241m) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The Found New Hardware wizard windows will appear indicating that it is going to install a device driver for a hardware device PCI Serial Port. Click Next.
6. Click Search for a suitable driver for my device (recommended) and click Next.
7. Put a checkmark next to Specify a location and clear all other boxes. Click Next.
8. Click Browse and point to the location specified above in step 4. Click OK.
9. Windows found a driver for this device: PATH\w2k\fastdev.inf. Click Next.
10. A window stating that the Digital Signature Not Found for the Fastcom 232/4-1M. Click Yes.
11. Completing the Found New Hardware Wizard. Click Finish.
12. The Found New hardware Wizard will appear indicating that it is going to install a device driver for a hardware device: Multifunction Device. Click Next.
13. Click Search for a suitable driver for my device (recommended) and click Next.
14. Put a checkmark next to Specify a location and clear all other boxes. Click Next.
15. Click Browse and point to the w2k folder found in the directory specified in step 4 . Click OK.
16. Windows found a driver for this device: PATH\w2k\fastcom.inf. Click Next.
17. Completing the Found New Hardware Wizard: Fastcom MegaBaud Communications Port. Click Finish.
18. Windows will then automatically install the other three Fastcom MegaBaud Communications Ports on your machine.
19. You may be asked to reboot your machine. Your new Fastcom Ports are now ready for use.

## Windows NT

1. After installing the Fastcom: Fastcom: 232/4-1M board into a PCI slot, start your computer. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom: 232/4-1M) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\fc23241m) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. Open a command prompt by selecting Run from the start menu and typing cmd and pressing OK.
6. Browse to the nt folder found in the directory specified in step 4.
7. Execute the application driverinstall.exe with a -i option  
"driverinstall.exe -i"
8. The Fastcom MegaBaud Communications Ports are now installed and ready to use.
9. You can use the megasetup.exe program to change the clock rate of the board to get non-standard baud rates. Just remember that the ClockRate = 16 X BaudRate.

Example: If you want 1Mbps ->  $1,000,000 * 16 = 16,000,000$

To get 1Mbps you set the clock rate to 16MHz.

## Return to Product Manual

[Fastcom: 232/4-1M-PCI](#)

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## Fastcom: ESCC - PCI

### Windows XP

1. After installing the Fastcom: ESCC-PCI board, start your computer. The "Found New Hardware" wizard opens after login to Windows. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom ESCC PCI) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\escpc) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The found new hardware wizard should say it has found a Simple Communications Controller. Click Next. The Install Hardware Device Drivers screen will appear. Click Install from a list or a specified location.
6. Click Search for the best driver in these locations. Check "Include this location in the search." Uncheck "Search removable media." Click Browse and select the XP folder in the location you specified in step 4. Click OK and then click Next.
7. A message will appear about the software not passing Windows Logo testing. Click Continue Anyway.
8. Click Finish. You should see a little message in the status bar telling you that new hardware installation was successful.
9. Restart your PC. You can now use your card's new ports.
10. Now that the driver is in place you can use any of the example programs from the c:\escpc\examples directory of the install files to test that your installation passed.
11. Please refer to the hardware manual for instructions on testing your installation.

## Windows 2000

1. After installing the Fastcom: ESCC-PCI board, start your computer. The "Found New Hardware" wizard opens after login to Windows. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom ESCC PCI) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\esccp) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The found new hardware wizard should say it has found a Simple Communications Controller. Click Next. The Install Hardware Device Drivers screen will appear. Select "search for a suitable driver" and Click Next.
6. The Locate Driver Files screen will appear. Check "specify location" and uncheck all the other options. Click Next. Press the Browse button. Locate the files (fastcom.inf and escppdrv.sys, the fastcom.inf will probably be the only one visible). Click OK.
7. The Driver Files Search Results screen will appear. Be sure the path matches where you installed the files in step 4. Click Next.
8. Digital Signature not found, click Yes.
9. The Completing the Found New Hardware Wizard screen will appear. Click Finish.
10. Restart PC. You can now use your card's new ports.
11. Now that the driver is in place you can use any of the example programs from the c:\escpp\examples directory of the install files to test that your installation passed.
12. Please refer to the hardware manual for instructions on testing your installation.

## Windows NT 4

1. After installing the Fastcom: ESCC-PCI board, start your computer. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom ESCC PCI) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\escpp) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. Locate the "nt" folder in the location you specified in the last step. Run the program ntinstall.exe. This utility is meant to make installation easier.
6. Press the Install Driver button. You will see a message "Escppdrv is stopped."
7. Click the button "Start escppdrv." The message will change to "Escppdrv is started."
8. Click OK/Exit.
9. You are ready to start using the card. You can use any of the example programs in the examples directory to test your installation.
10. Please refer to the hardware manual for instructions on testing your installation.

## Windows 98

1. After installing the Fastcom: ESCC-PCI board, start your computer. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 6 if you have already copied the software from the CD or the web)

2. Click cancel on the hardware wizard. Insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom ESCC PCI) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\escpc) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. Start the device manager by right clicking on My Computer and selecting the Devices Tab. Click Refresh to restart the Hardware Wizard.
6. Hardware wizard will find a PCI Communication Device. Click Next. Click search for best driver. Click Next. Check Specify Location box and uncheck all the others. Click Browse and point it to the w98 folder in the directory you specified in step 4. Click Next.
7. Be sure the path listed matches what you just browsed to in the previous step and click next. If you get a message saying file not found, browse to the directory from step 4 and click OK. Otherwise, click Finish.
8. Your new card is now installed and can be accessed using any of the example programs in the w98 directory of the install path.
9. Please refer to the hardware manual for instructions on testing your installation.

## Windows 95

1. After installing the Fastcom: ESCC-PCI board, start your computer. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time. If you do not see a hardware wizard screen after reboot, continue with this setup. If you do see a hardware wizard, use the [Windows 98](#) install.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom ESCC PCI) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\esccp) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. When you first boot up with the ESCC-PCI board in a PCI slot, win95 will indicate that a new PCI device is found; you should select the "Do not install a driver (Windows will not prompt you again)" option.
6. Note also that W95 will keep track of the ports by which slot was used first so if you have multiple boards and rearrange them, the port numbers will be fixed by the order in which the slots were used, not the by the physical boards.
7. To use the ports on the card, just put esccpdrv.vxd is somewhere in the path, or in the directory of the program that opens it. Then you can refer to the example programs in the w95 folder of the install directory.
8. Please refer to the hardware manual for instructions on testing your installation.

## Linux

1. After installing the Fastcom: ESCC-PCI board, start your computer, boot Linux. Ignore any messages about found new hardware. Login is root. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.
2. Use the tarball on the CD or download the most recent one from the web. Run "tar -xvzf escc-pci-linux.tar.gz " (without quotes) to expand the file in the PWD.
3. > cd escc-pci-linux
4. > make
5. >. /mkdev.sh

You then need to compile the tools necessary to configure the board: esccclock & esccpsettings.

6. > cd utils/esccclock
7. > make
8. Set the desired clock frequency first: >. /esccclock port frequency
9. > cd /utils/esccpsettings
10. >. /make
11. Load the desired settings file (asyncset, bisyncset, hdlcset, or your own settings file) >. /esccpsettings port settingsFile
12. If you copy these two executable files to a directory in your path and you run > insmod esccp.o at startup (followed by the two previous commands), your ports will be available on every boot.
13. You can look at the example programs tronly and reconly to see how to use the card in your programs.

## Return to Product Manual

[Fastcom: ESCC-PCI](#)

## Fastcom: ESCC-PCI-335 and ESCC-LPCI-335

### Windows XP

1. After installing the Fastcom: ESCC-PCI-335 board into an empty 3.3V or 5V PCI slot, start your computer. The "Found New Hardware" wizard opens after login to Windows. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom: ESCC-PCI-335) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\escp\_pci\_335) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The found new hardware wizard should say it has found a Simple Communications Controller. Click Next. The Install Hardware Device Drivers screen will appear. Click Install from a list or a specified location.
6. Click Search for the best driver in these locations. Check "Include this location in the search." Uncheck "Search removable media." Click Browse and select the XP folder in the location you specified in step 4. Click OK and then click Next.
7. A message will appear about the software not passing Windows Logo testing. Click Continue Anyway.
8. Click Finish. You should see a little message in the status bar telling you that new hardware installation was successful.
9. Restart PC. You can now use your card's new ports.
10. Now that the driver is in place you can use any of the example programs from the c:\ escp\_pci\_335 directory of the install files to test that your installation passed.
11. Please refer to the hardware manual for instructions on testing your installation.

## Windows 2000

1. After installing the Fastcom: ESCC-PCI-335 board into an empty 3.3V or 5V PCI slot, start your computer. The "Found New Hardware" wizard opens after login to Windows. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom: ESCC-PCI-335) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\escp\_pci\_335) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The found new hardware wizard should say it has found a Simple Communications Controller. Click Next. The Install Hardware Device Drivers screen will appear. Select "search for a suitable driver" and Click Next.
6. The Locate Driver Files screen will appear. Check "specify location" and uncheck all the other options. Click Next. Click Browse and select the w2k folder in the location you specified in step 4 and click Open. Click OK.
7. The Driver Files Search Results screen will appear. Be sure the path matches where you installed the files in step 4. Click Next.
8. Digital Signature not found, click Yes.
9. The Completing the Found New Hardware Wizard screen will appear. Click Finish.
10. Restart PC. You can now use your card's new ports.
11. Now that the driver is in place you can use any of the example programs from the c:\ escp\_pci\_335 directory of the install files to test that your installation passed.
12. Please refer to the hardware manual for instructions on testing your installation.

## Linux

Note: Before attempting to compile the driver for this device, you must have the your kernel source installed and create a link to the source directory at the location /usr/src/linux

Example:

```
cd /usr/src
ln -s linux-2.4.18-6 linux
```

The V3 hardware requires a longlong division that (on my machine anyway) coughs up a link error, you must add libgcc.a into the linker command line. the location of this file is likely to vary per distro. try:

```
$ find / -name libgcc.a
```

and take the output of this and change the Makefile line:

```
LOADLIBS := /usr/lib/gcc-lib/i386-redhat-linux/2.96/libgcc.a
```

line to reflect your location.

(this is the location on my RH7.3 box, unless you are using RH 7.3 it is probably somewhere else)

To build and install the ESCCP kernel module type:

```
$ make
$ ./mkdev.sh
$ make tools
```

the 'make' will compile the driver module (esccp.o)

the 'mkdev.sh' script will insmod the driver and create the device nodes (/dev/escp0,/dev/escp1)

the 'make tools' will compile the examples/utilities and place their binaries in utils/bin

To install just 'mv' them to one of your PATH directories, or update your path to include this directory. The mkdev.sh script copies the driver module to (hopefully) the correct location (/lib/modules/xxx/char) but you must add the insmod or depmod line into an install script to get the driver to load at boot. Or you can just 'insmod esccp.o' prior to device usage.

```
-----
-= ESCCP CLOCK =-
```

This program sets the main clock generator for the Esccp board. Type:

```
$ ./escpclock 0 [frequency]
(this function only works on older (not V3) hardware.)
use ./setclock 0 [frequency] for the new ESCC-PCI-335
```

```
-----
-= ESCCP SETTINGS =-
```

The escpsettings program will setup the board. Look at the set files that are included in the directory of escpsettings. Modify these files to your liking.

```
-----
```

See the comments in each example file source for their use/usage.

## Return to Product Manual

[Fastcom: ESCC-PCI-335](#)

[Fastcom: ESCC-LPCI-335](#)

## Fastcom: ESCC-PCMCIA

### Windows XP

1. After installing the Fastcom: ESCC-PCMCIA board into an empty Type II PCMCIA slot, start your computer. The "Found New Hardware" wizard opens after login to Windows.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom ESCC-PCMCIA) and click the Copy Disk button.
4. Choose a directory to install to (default= C:\escc\_pcmcia) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The found new hardware wizard should say it has found a "Commtech\_Inc. Fastcom:ESCC-PCMCIA." Click Next. The Install Hardware Device Drivers screen will appear. Click Install from a list or a specified location.
6. Click Search for the best driver in these locations. Check "Include this location in the search." Uncheck "Search removable media." Click Browse and select the XP folder in the location you specified in step 4. Click OK and then click Next.
7. A message will appear about the software not passing Windows Logo testing. Click Continue Anyway.
8. Click Finish. You should see a little message in the status bar telling you that new hardware installation was successful.
9. You can now use your card's new ports.
10. Now that the driver is in place you can use any of the example programs from the utils directory of the install files to test that your installation passed.
11. Please refer to the hardware manual for instructions on testing your installation.

## Windows 2000

1. After installing the Fastcom: ESCC-PCMCIA board into an empty Type II PCMCIA slot, start your computer. The "Found New Hardware" wizard opens after login to Windows.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom: ESCC-PCMCIA) and click the Copy Disk button.
4. Choose a directory to install to (default= C:\escc\_pcmcia) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The found new hardware wizard should say it has found a "Commtech\_Inc. Fastcom:ESCC-PCMCIA". Click Next. The Install Hardware Device Drivers screen will appear. Select "search for a suitable driver" and Click Next.
6. The Locate Driver Files screen will appear. Check "specify location" and uncheck all the other options. Click Next. Click Browse and select the w2k folder in the location you specified in step 4. Click Open, then click OK.
7. The Driver Files Search Results screen will appear. Be sure the path matches where you installed the files in step 4. Click Next.
8. Digital Signature not found, click Yes.
9. The Completing the Found New Hardware Wizard screen will appear. Click Finish.
10. You can now use your card's new ports.
11. Now that the driver is in place you can use any of the example programs from the utils directory of the install files to test that your installation passed.
12. Please refer to the hardware manual for instructions on testing your installation.

## Windows NT 4

1. After installing the Fastcom: ESCC-PCMCIA board into an empty Type II PCMCIA slot, start your computer and log in.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom: ESCC-PCMCIA) and click the Copy Disk button.
4. Choose a directory to install to (default=C:\escp\_pcmcia) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. Locate the "nt" folder in the location you specified in the last step. Run the program "ntinstall.exe -i". This utility is meant to make installation easier. You may need to open a command prompt and run the install program from there.
6. If you do not see any error messages, you are ready to start using the card. You can use any of the example programs in the utils directory to test your installation.
7. Please refer to the hardware manual for instructions on testing your installation.

## Return to Product Manual

[Fastcom: ESCC-PCMCIA](#)

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## Fastcom: GSCC

### Windows XP

1. After installing the Fastcom: GSCC board into an empty 3.3V or 5V PCI slot, start your computer. The “Found New Hardware” wizard opens after login to Windows. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom: GSCC) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\gsc) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The found new hardware wizard should say it has found a Simple Communications Controller. Click Next. The Install Hardware Device Drivers screen will appear. Click Install from a list or a specified location.
6. Click Search for the best driver in these locations. Check “Include this location in the search.” Uncheck “Search removable media.” Click Browse and select the XP folder in the location you specified in step 4. Click OK and then click Next.
7. A message will appear about the software not passing Windows Logo testing. Click Continue Anyway.
8. Click Finish. You should see a little message in the status bar telling you that new hardware installation was successful.
9. Restart PC. You can now use your card’s new ports.
10. Now that the driver is in place you can use any of the example programs from the c:\gsc directory of the install files to test that your installation passed.
11. Please refer to the hardware manual for instructions on testing your installation.

## Windows 2000

1. After installing the Fastcom: GSCC board into an empty 3.3V or 5V PCI slot, start your computer. The "Found New Hardware" wizard opens after login to Windows. If you are installing more than one Fastcom board into a single PC, plug all of them into free PCI slots and install all of the boards at one time.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe. Click Open, then OK.
3. Click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (Fastcom: GSCC) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\gsc) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The found new hardware wizard should say it has found a Simple Communications Controller. Click Next. The Install Hardware Device Drivers screen will appear. Select "search for a suitable driver" and Click Next.
6. The Locate Driver Files screen will appear. Check "specify location" and uncheck all the other options. Click Next. Click Browse and select the w2k folder in the location you specified in step 4 and click Open. Click OK.
7. The Driver Files Search Results screen will appear. Be sure the path matches where you installed the files in step 4. Click Next.
8. Digital Signature not found, click Yes.
9. The Completing the Found New Hardware Wizard screen will appear. Click Finish.
10. Restart PC. You can now use your card's new ports.
11. Now that the driver is in place you can use any of the example programs from the c:\gsc directory of the install files to test that your installation passed.
12. Please refer to the hardware manual for instructions on testing your installation.

## Linux

See the README file contained in the tar.gz driver file.

**Return to Product Manual**

**[Fastcom: GSCC](#)**

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## SuperFastcom Series Cards

Note 1: The difference between the 422 and 232 versions of this card has to do only with the specified interface. They each operate in the same way and utilize the same software. The only noticeable difference to the user will be that the 232 card will not operate at speeds greater than 1MBps.

Note 2: These installation instructions apply to all of the boards in the *SuperFastcom* family of PC boards. This includes the PCI, PC/104-Plus, and *CompactPCI™* versions of the card.

### Windows XP

1. After installing the SuperFastcom board, start your computer. The “Found New Hardware” wizard opens after login to Windows. If you are installing more than one board into a single PC, plug all of them into bus mastering PCI slots and run the installation for all SuperFastcom boards.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe.
3. Click Open, then OK and click to accept the license agreement. At the Commtch, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (SuperFastcom) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\SuperFastcom) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The found new hardware wizard should come up after Windows boots. It will say it has found a Network Controller. Click Next.
6. Choose Install from list or specific location (advanced) and click next.
7. Choose Search for the best driver in these locations. Check only Include this location in the search. Click Browse and select the XP folder in the location you specified in step 4. Click OK and then click Next.
8. Please select the best match for your hardware from the list below. Choose the type of SuperFASTCOM board that you are trying to install and click next.
9. The software will install. The hardware wizard will indicate that it has completed the installation. Then click Finish.
10. The board is now installed and ready for use. You must set the clock and the mode before you can use the ports. Use setclock.exe and sfcset.exe. (Note: PC/104 boards must use setfs6131clock.exe)
11. You can modify the board's settings from the Settings tab, which can be found in the Device manager under SFCSerialClass. Double click on your device and then click on the settings tab.
12. Refer to the example programs in the xp directory to see how to use the card in your programs.
13. Please refer to the hardware manual for instructions on testing your installation.

## Windows 2000

1. After installing the SuperFastcom: board, start your computer. The "Found New Hardware" wizard opens after login to Windows. If you are installing more than one board into a single PC, plug all of them into bus mastering PCI slots and run the installation for all SuperFastcom boards.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe.
3. Click Open, then OK and click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (SuperFastcom) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\SuperFastcom) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. The found new hardware wizard should come up after Windows boots. It will say it has found a Network Controller. Click Next.
6. The Install Hardware Device Drivers screen will appear. Choose Display a list of the known drivers... and click Next.
7. Click Have Disk. Click Browse and point to the location specified in step 4 and click OK, OK.
8. Choose the type of SuperFASTCOM board that you are trying to install and click next.
9. Start Device Driver Installation... Click Next.
10. The software will install. The hardware wizard will indicate that it has completed the installation. Then click Finish.
11. The board is now installed and ready for use. You must set the clock and the mode before you can use the ports. Use setclock.exe and sfcset.exe. (Note: PC/104 boards must use setfs6131clock.exe)
12. You can modify the boards settings from the Settings tab which can be found in the Device manager, under SFCSerialClass. Double click on your device and then click on the settings tab.
13. Refer to the example programs in the w2k directory to see how to use the card in your programs.
14. Please refer to the hardware manual for instructions on testing your installation.

## Windows NT 4

1. After installing the SuperFastcom: PCI board, start your computer. If you are installing more than one board into a single PC, plug all of them into bus mastering PCI slots and run the installation for all SuperFastcom boards.

(Skip to step 5 if you have already copied the software from the CD or the web)

2. Before continuing, insert the Fastcom CD that was supplied with the board into your CD Rom drive. If the CD fails to start automatically, click on your START button and choose RUN, BROWSE to your CD-Rom drive, and select the file cdinstall.exe.
3. Click Open, then OK and click to accept the license agreement. At the Commtech, Fastcom menu screen, click the button to Copy Software. Locate the family of cards that corresponds to your card (SuperFastcom) and click the Copy Disk button.
4. Choose a directory to install to (default=c:\SuperFastcom) and click OK. Files will be copied to the directory you specified, then click Exit, and click Exit again.
5. Open a command prompt and change to the install directory (c:\SuperFastcom\nt).
6. Run: sfcinstall -i
7. Run: setclock port frequency (global for all ports)
8. Run: sfcset port settingFile (local for each port)
9. The board is now installed and ready for use. You must set the clock and the mode before you can use the ports. Use setclock.exe and sfcset.exe. (Note: PC/104 boards must use setfs6131clock.exe)
10. Refer to the example programs in the nt directory to see how to use the card in your programs.
11. Please refer to the hardware manual for instructions on testing your installation.

## Linux

1. After installing the SuperFastcom: PCI board, start your computer, boot Linux. Ignore any messages about found new hardware. Login is root. If you are installing more than one board into a single PC, plug all of them into bus mastering PCI slots and run the installation for all SuperFastcom boards.
2. Use the tar ball on the CD or download the most recent one from the web. Run "tar -xvzf sfc7.tar.gz" (without quotes) to expand the file in the PWD.
3. > cd sfc
4. > make
5. > make install
6. > make tools //this should compile several pgms into the /sfc/util directory.
7. Before the card will function properly, you must set the clock generator (. /util/setclock) and set the mode registers (. /util/sfcset).
8. You can then begin using the card. Take a look at some of the programs in the /sfc/util directory to get an idea of how to use the card's ports in your programs.

## Return to Product Manual

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### [SuperFastcom/2-104](#)

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### [SuperFastcom-cPCI](#)