# IFSYS-8001 IrDA PC Adapter User Guide

Revision 1.04



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## 1. PRODUCT OVERVIEW

Thank you for purchasing the IFSYS-8001 IrDA PC Adapter.

#### 1.1 Features

The IFSYS-8001 adapter:

- connects to your PC through its serial port.
- is easy to install.
- has a flashing LED to indicate infrared transfer activity.
- IrDA link works at up to 115Kbps.

#### 1.2 Applications

Below are some examples showing how your IFSYS-8001 IrDA PC Adapter can be used:

- synchronise your Palm PDA or Pocket PC device with your PC through the wireless infrared link.
- exchange data between Laptop and PC Desktop.
- connect to your IrDA cellphone.
- transfer photos from your IrDA camera to your Desktop PC.

#### 1.3 System Requirements

The IFSYS-8001 IrDA PC adapter:

- is designed to work with the following Microsoft Operating Systems Windows 98/98SE, Windows ME, Windows 2000 family, Windows XP family.
- requires a PC with a free serial port.

Note that some use modes may require additional software that should be provided by your device manufacturer.

#### 1.4 Packaging content

The package should contain the following items:

- the IFSYS-8001 IrDA PC Adapter
- printed User Guide (this document)
- Warranty Card

# 2 INSTALLING THE DRIVER

This section describes the steps for installing the Windows driver for this product. It is worthwhile noting that Microsoft Windows operating system family ships with built-in drivers for the IFSYS-8001 adapter.

#### 2.1 Before Starting

Installation should be a fairly straightforward process. The user may want to ensure the following items and information are at hand, prior to starting installation:

- Windows CDROM (Windows may require some additional operating system files to be installed),
- Identify the *physical* serial port to which the IFSYS-8001 adapter will be attached. On most computers, this would be either COM1 or COM2. You will need this information during installation.

#### 2.2 Order of presentation

The installation procedures presented in this section are arranged in the following order:

- Windows 98/98SE, Windows ME,
- Windows 2000/Pro,
- Windows XP/Pro.

#### 2.3 Windows 98 & Windows ME installation

 Click on Start->Settings->Control Panel->Add New Hardware. The following screen will be displayed.



• Close any open programs, then press Next to continue.

• The following screen will appear.



Click Next to proceed with searching for devices on your system.

 When Windows finishes searching for Plug and Play devices it will try to locate non plug and play devices.

Add New Hardware W	izard
	Windows can now search for hardware that is not Plug and Play compatible, or you can select your hardware from a list. When Windows detects new hardware, it automatically determines the current settings for the device and installs the correct driver. For this reason it is strongly recommended that you have Windows search for your new hardware. Do you want Windows to search for your new hardware?
	O Yes (Recommended)
	No, I want to select the hardware from a list
	< <u>B</u> ack Next> Cancel

Select No, I want to select the hardware from a list. Then click
Next.

• At this point you may see one of two possible displays.

If you see the display below, showing an "Infrared devices" entry in the list of hardware types, it means that y our Windows operating system is already Infrared device "aware". Please skip the remaining steps and proceed to **CONTINUATION POINT "A"** a few pages ahead in order to continue with the driver installation.

Add New Hardware Wiz	ard
	Select the type of hardware you want to install.
	Hardware types:
	Floppy disk controllers
	🖋 Global positioning devices
	Hard disk controllers
	🖾 Human Interface Devices
	Reging Device
	Infrared devices
	R Kevboard
	Memory Technology Drivers (MTDs)
	Modem
	< Back Next > Cancel

If you do not see the "Infrared devices" entry in the list of hardware types, you will need to run the few additional steps from this point to the point labelled **CONTINUATION POINT** "**A**" a few pages ahead.

• Scroll down and select Other devices from the Hardware types list.

Add New Hardware Wiz	zard
	Select the type of hardware you want to install.
	Hardware types:
	Mouse
	Multi-function adapters
	Retwork adapters
	😵 Other devices
	PCMCIA socket
	Ports (COM & LPT)
	🏈 Printer
	SBP2
	SCSI controllers
	Sound, video and game controllers
	< Back Next > Cancel

Click Next to proceed.

A list of hardware products and manufacturers will be presented to you.

Add New Hardware Wizard	
Select the manufacturer and model of your hardware. If your hardware is not listed, or if you have an installation disk, click Have Disk. If your hardware is still not listed, click Back, and then select a differen hardware type.	it
Manufacturers:         Models:           [Generic USB Hub)         (ACT-IR220L Infrared Wireless Interface (Infrared CDM port or dong)           Ilegacy serial infrared device (Multi-function PC card Punct)         Adaptec AIRport 1000 AIRport APA/3920 External Infrared Adapter AIRPort APA/3920 External Infrared Adapter AIRPort APA/3920 External Infrared Adapter AIRPort APA/3920 External Infrared Composition PC card PHASIR JetEve PC Infrared PC Interface (ESI-9600) Parallax LiteLink PRA5900A TI TravelMate 5000 Lanton           Have Disk	4
< Back Next> Cancel	

- Under Manufacturers, select (legacy serial infrared devices).
- Under Models, select JetEye PC Infrared PC Interface (ESI-9680).
- Click Next to proceed.

Add New Hardware Wi	zard
	Windows can continue installing your hardware now. To continue installing the software needed by your hardware, click Finish.
	< <u>B</u> ack Finish Cancel

• When the following display appears, click Finish.

At this point you should re-start the installation process, by clicking **Start->Settings->Control Panel->Add New Hardware**. You should be able, next time round, to reach the point in the process where you would be directed to **CONTINUATION POINT "A"** without having to go through these intervening steps. **CONTINUATION POINT "A"**: You might have been directed here from another section, to continue installation of the IFSYS-8001 driver.

When Windows displays the list of device types, select Infrared devices.

Add New Hardware Wi	zard
	Select the type of hardware you want to install.
	Hardware types:
	Floppy disk controllers  Global positioning devices  Hard disk controllers  Human Interface Devices  Imaging Device  Infrared devices  Keyboard  Memory Technology Drivers (MTDs)  Modem  Monitors
	< Back Next > Cancel

Then click Next to proceed.

# Foundry

• The following screen will appear.

Add Infrared Device Wi	zard
	This wizard will help you install an infrared device. Microsoft Infrared Support enables you to - Send and receive files - Print files to IrDA compliant printers - Access a network To continue, click Next.
	< <u>B</u> apk. Next> Cancel

• Click Next to continue.

• The Infrared Device wizard screen will be displayed, as shown below:

Add Infra	red Device Wizard	K	×			
	Click the manufacturer of the infrared device. Then click the infrared device type that matches your hardware. Then click DK. If you have an installation disk for this device, click Have Disk.					
<u>M</u> anufac	turers:	Infrared Devices:				
(Infrared	COM port or dongle)	(Generic Infrared Serial Port or dongle)				
IBM		Infrared PnP Serial Port				
National	Semiconductor	Infrared PnP Serial Port (*PNP0510)				
SMC						
Toshiba						
Winbond	d Electronics Corp.					
		Have Disk				
		OK Cancel				

• Select (Generic Infrared Serial Port or dongle), then click OK.

• A list of supported adapters will now appear.

Add Infrared Device W	izərd
	You have selected the following infrared device:
	(Generic Infrared Serial Port or dongle)
	Infrared Transceiver
	ACTISYS 220L Adaptec AIRport 2000 AMP PHASIR ESISEB0JetEve PC Burdlav PRAGE00A
	Tekram IRMate-210
	Please make your selection. To continue, click Next.
	< Back Next > Cancel

• Select ESI-9680 JetEye PC, and press Next.

 Windows will now ask to which serial (COM) port the IFSYS-8001 adapter is attached.

Add Infrared Device Wi	izard					
	You have selected the following infrared device:					
	(Generic Infrared Serial Port or dongle)					
	Select the port to which the infrared device is physically connected.					
	Communications Port (COM2) Communications Port (COM1)					
	Please make your selection. To continue, click Next.					
	< <u>B</u> ack Next > Cancel					

- Once you have this information, select the appropriate choice and click Next, to proceed with driver installation.
- Note: this selection depends entirely on which physical COM port the adapter is attached to on your PC, which could differ from the screen above.

 When done, Windows will make the IFSYS-8001 adapter's capabilities available to other applications, through 'virtual" ports. You would not normally need to change the settings Windows has selected for you.

Add Infrared Device Wizard				
	Select simulated serial and printer ports. These are used by infrared applications to access the infrared device.			
	Infrared serial (COM) port: COM4			
	Infrared printer (LPT) port: LPT3			
	To use these as your infrared ports, click 'Use default ports'. To specify different ports, click 'Change ports'.			
	Use default ports (recommended)			
	C Change ports			
	< <u>B</u> ack Next≻ Cancel			

Select Use default ports (recommended), and click Next to proceed.

 When done, the screen below is displayed. Click Finish to complete the installation,



 Even if Windows does not request you re-boot your PC, we would strongly recommend doing so, to ensure the driver has installed cleanly, before using your newly installed adapter.

- When Windows has exited, and before the PC reboots, you should attach the IFSYS-8001 adapter to the PC, if you have not already done so.
- Once Windows comes up again, the IFSYS-8001 adapter should be ready for use.

#### 2.4 Windows 2000 installation

 Click on Start->Settings->Control Panel->Add New Hardware. The following screen will be displayed.



• Press Next to continue.

 When the next screen appears, select Add/Troubleshoot a device, and click Next.

Remove H	lardware Wizard				
<b>hoose a H</b> Which h	l <b>ardware Task</b> ardware task do you w	ant to perform?			
Select th Add/ Choc probl	e hardware task you w Troubleshoot a device se this option if you are ems getting a device w	ant to perform, an adding a new de orking.	d then click wice to you	< Next. Ir computer or are	• having
C Unin: Choo devio	stall/Unplug a device se this option to uninst e.	all a device or to p	orepare the	computer to unp	lug a

- Windows will then attempt to detect new devices in your system. This should take a few moments.

ew Hardware Detection The wizard automatically locates new Plug	) and Play hardwar	е.	<u> 189</u>
Windows is searching for new Plug and Pl	ay hardware to inst	tall.	
Searching			

The following screen will then appear. Select Add a new device and click Next.

Choose a Hardware Device Which hardware device do you want to	troubleshoot?	EXII
The following hardware is already installe with one of these devices, select the dev If you are attempting to add a device and device and then click Next	ed on your computer. If you ar vice, and then click Next. d it is not shown below, selec	e having problems t Add a new
Devices Add a new device		<b>_</b>
Plug and Play Monitor Floppy disk drive		

• The following screen will appear.

dd/Remove Hardware Wizard
Find New Hardware Windows can also detect hardware that is not Plug and Play compatible.
When Windows detects new hardware, it checks the current settings for the device and installs the correct driver.
Do you want Windows to search for your new hardware? C Yes, search for new hardware C No, I want to select the hardware from a list
<back next=""> Cancel</back>

• Select No, I want to select the hardware from a list then click Next.

• When the list appears, select Infrared devices, and click Next.

Add/Remove Hardware Wizard			
Hardware Type What type of hardware do you want to insta	all?		
Select the type of hardware you want to inst Hardware tunes:	tall.		
Batteries Display adapters Display adapters Display adapters DIEE 1394 Bus host controllers Display adapters Display adapter			*
	< Back	Next >	Cancel

• A list of known infrared adapters will be presented in the next screen.

Add/Remove Hardware Wizard
Select Infrared Device Which infrared device do you want to install?
Click the Infrared Device that matches your hardware, then click OK. If you have an installation disk for this component, click Have Disk.
Manufacturers: Infrared Device:
Standard Infrared Port)     ESI-9680 JetEye Serial Infrared Device       ACT/SYS     AMP       Extended Systems     Greenwich Instruments Ltd       Hewlet Packard     Image: Second Systems
Have Disk
< Back Next > Cancel

• Select Extended Systems, then click Next.

 When the following screen appears, click Next to allow Windows to proceed with driver installation.



 Windows will now ask to which serial (COM) port the IFSYS-8001 adapter is attached.

Add New Hardware Wizard	
Select the Communications Port your Infrared d	evice is attached to, then click Next.
Serial Port	
CUM2	
	< Back Next > Cancel

- Once you have this information, select the appropriate choice and click Next.
- Note: this selection depends entirely on which physical COM port the adapter is attached to on your PC, which could differ from the screen above.

 When done, the screen below is displayed. Click Finish to complete the installation.



 Even if Windows does not request you re-boot your PC, we would strongly recommend doing so, to ensure the driver has installed cleanly, before using your newly installed adapter.

- When Windows has exited, and before the PC reboots, you should attach the IFSYS-8001 adapter to the PC, if you have not already done so.
- Once Windows comes up again, the IFSYS-8001 adapter should be ready for use.

#### 2.5 Windows XP installation

 Click on Start->Settings->Control Panel->Add Hardware. The following screen will be displayed.



Click Next to proceed.

• When you do that, Windows will ask if the hardware is connected up.



- Select Yes, I have already connected the hardware, (even though you may have not)
- Click Next.

- The following screen will now appear, showing a list of hardware devices already installed in your system.
- Scroll right down this list and select Add a new hardware device.

Promitie liet beine, select an installed handware device, two clock Next's check properties of bodilehood a problem you might be having. To add hardware not shown in the fat, click "Add a new hardware device." Installed hordware Use Roact Hub Use Roact Hub Use Roact Hub Use Roact Hub Use Roact Hub Use Roact Hub	The following hardware is already in	nstalled on your computer	2
To add hardware instalhown in the fait, click "Add a new hardware device."  Installed hardware USB Poet Hub Unknown Device Add a new hatdowne device	From the list below, select an installe toubleshoot a problem you mightle	ed hærdware device, then click Next to cl e having.	reck properties or
Installed hordware Host 0 82371AB/EB PCIto USB Universal Host Controller USB Root Hub USB Root Hub USB Root Hub USB Root Hub Multinoum Davice Add a new hatdware device	To add herdware notahown in the lo	at, click "Add a new hardware device."	
Health 2277AB/EB PCIto USB Universal Host Controller     USB Northlub     USB Northlub     USB Northlub     Usb Northlub     Universe     Add an new hastower device			
VSB Roothub USB Roothub Ver USB Roothub Unknown Device Add a new haldware dwice	installed hordware		
Ver USE Hoethus Ver USE Roethus Ver Unknown Davice Add a new haldware device	Installed hordware	Universal Host Controller	-
Add a new hardware device	Installed hordware Installed hordware USB Root Hub	Universal Host Controller	-
Add a new hastware dweee	hotalie dhardware for Intel (1) 3237146)/EB PCI to USB USB Root Hub USB Root Hub USB Root Hub	Universal Host Controller	×
	nstaled hardware Internet (n 9237146) EB PCIto USB Internet Hab Internet Hab Inter	Universal Host Controller	×
20 120	rstalled hardware He helin 2237140/EB PCIto USB He USB Root Hub He USB Root Hub He USB Root Hub Homore Davice Add Insey hat davice device	Universal Host Controller	•
	rotalied hardware Helin 2237140,EB PCIto USB USB Root Hub USB Root Hub USB Root Hub USB Root Hub Met USB Root Hub Add a new hardware device	Universal Host Controller	•

Click Next to proceed.

 The following screen will now appear, with Windows indicating that it can automatically search for new hardware devices you may have attached, or allow you to select from a supported list..

The wizard can help you instal	l ofter hardware	2
The wizard can exarch for off exactly which bandware mode	er hardware and automatically install if I you want to install, you can select it for	or you. Cir, #you know n a kat
What do you want the wizard?	n do?	
C Search for and install d	te hardwate automatically (Recommon	jo ob
🖗 install the hurstware the	I Imenually selectfrom a list(Advanced	a .

• Select Install the hardware that I manually select from a list (Advanced), and click Next.

 The following screen will now appear, presenting a list of types of hardware that Windows is aware of.

om the list below, select the type of ha	ndware you are inst	alling	
Fyou do not see the handware category y	ou want, click Show All	Devices.	
Common hardware types:			
Show All Devices			-
😼 Display adapters			
ER ATA/ATAPicortolen			
EEE 1394 Bus host controllers			1.00
Simaging devices			
lotated devices			
Moderns			
Multi-port serial adapters			
Statute adaptars			- 20

• Select Infrared devices, and press Next to proceed.

A list of known infrared devices will be displayed.

Click the Initiated De for this component, c	vice that matche lick Have Ditk	s your hardware, then click OK. If you ha	ve an installation d
Manufacturer (Standard Infrared Port) ACT (SYS AMP	inter Cares	ed Device SI-9680 JerEye Serial Infrared Device	
Extended Systems Greenwich Instruments Ltd Parallex	-		

- Select Extended Systems from the Manuf acturer window.
- Press Next.

• The following screen will now appear.



• Press Next to proceed with driver installation.

 Windows will now ask to which serial (COM) port the IFSYS-8001 adapter is attached.

Select the polity ou want to install the infrav	id device on		20
Selectifie Communications Portyour Infrared	device is attached	to, then click Noot	
SenalPort COM1			
COM2			

- Once you have this information, select the appropriate choice and click Next. Windows will now install the driver for the IFSYS-8001 adapter.
- Note: this selection depends entirely on which physical COM port the adapter is attached to on your PC, which could differ from the screen above.

 When done, the screen below is displayed. Click Finish to complete the installation.



 Even if Windows does not request you re-boot your PC, we would strongly recommend doing so, to ensure the driver has installed cleanly, before using your newly installed adapter.

- When Windows has exited, and before the PC reboots, you should attach the IFSYS-8001 adapter to the PC, if you have not already done so.
- Once Windows comes up again, the IFSYS-8001 adapter should be ready for use.

# 3 SPECIFICATIONS

SP	ECIFICATIONS		
1	Regulator y		
	EN55022:1994	Radiated Emissions	Class B
	EN55022:1994	Conducted Emissions	Class B
2	Susceptibility Compliance	9	
	EN61000-4-3:1996	Electromagnetic Field Susceptibility	1kHz AM, 80%, 3 V/m
	EN61000-4-2:1995	Electro Static Discharge	4kV Contact, 8kV Air
	EN61000-4-6:1996	Conducted RF Immunity	3 VRMS, 1kHzAM, 0%
	EN61000-4-4:1995	Electrical Fast Transient	1 kV PL, 0.5 kV SL
3	Safety Compliance		
	EN 60950	Note: PCB material to meet and	
		indicate UL 94V0 flammability	
		rating.	
4	Environmental Conditions	S	1
	Temperature (Operating)	0°C to +40°C	
	Temperature (Storage)	-20°C to +70°C	
	Humidity (Operating)	10% to 80% RH	
	Humidity (Storage)	5% to 91% RH	
5	Dimensions & Weight		
	Dimensions	48.8mmW) x 62.2mm(L) x 33.7mm(H)	(excluding cable)
	Cable length	1.5m	
	Weight	110 gms (approximately)	

### 4 SUPPORT

Please visit iFoundry's website at <u>www.ifoundrysys.com</u> for information updates. Technical support, knowledge base, and updated drivers can be obtained at this site.

# 5 FCC STATEMENT

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, the user is encouraged to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Connect the computer into an outlet on a circuit different from that to which the receiver is connected.
- Increase the separation between the computer and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

# 6 LIMITED WARRANTY STATEMENT

iFoundry Systems warrants that this products is new or has been remanufactured to meet new standards using new or serviceable used parts. iFoundry Systems makes no other warranty, either expressed or implied, with respect to this product. iFoundry Systems specifically disclaims the implied warranties of merchantability and fitness for a particular purpose. Some states or provinces do not allow limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you.

The remedies provided herein are customer's sole and exclusive remedies. In no event shall iFoundry Systems be liable for any lost profits, direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory.

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