IrDA-USB IrDA USB Adapter

The IrDA USB Adapter enables infrared wireless data communication through your PC's USB port. No IRQ, DMA settings nor configurations, the IrDA USB Adapter is very easy to install. The adapter allows high speed 4Mbps wireless data transfer for record synchronization, file back-up and network access. This IrDA USB Adapter is compatible with all brands of color/camera phones and all types of mobile phones supporting Personal Information Management (PIM) to synchronize, to back up data, tasks, notes, calendar, address book, and to transfer pictures & images between the phones and desktop computer.

- Please note the driver must be installed first prior to hardware installation in Windows 98, ME & Windows 2000.
- Windows XP has built-in the driver support of this IrDA USB Adapter. No extra driver installation is required.

Windows 98 / 98 SE Driver Installation

During driver installation, Windows may ask for files that are located on the Windows 98/98SE CD. You will need to have Windows 98 / 98SE CD available. Some PC's have the Windows CAB files already archived on the hard drive and will not require the actual CD.

- 1. Insert driver CD to the CD ROM drive.
- 2. Choose CD ROM drive.
- 3. Go to the subdirectory "IrDA USB drv", and double click the file "Setup".
- 4. The SigmaTel USB-IrDA InstallShield Wizard appears.
- 5. Click "Next" to continue.
- 6. The Wizard shows "License Agreement", click "Yes" to accept the agreement. Click "Next" to copy program files required for installation.
- 7. Select "Finish" when file copy has finished.
- 8. Plug the IrDA-USB Adapter to an available USB port.
- 9. The computer will complete the driver installation.
- 10. Choose "Finish" to restart the computer, and the IrDA-USB Adapter is ready for use.

Checking Installation

You can now verify the installation by double-clicking on the "My Computer" on the Desktop. The "Infrared Recipient" icon is added to the "My Computer" Folder. The Infrared Recipient allows for file transfer between computers.

In the Control Panel, an "Infrared" icon is added.

In the System Tray on the Taskbar, an icon of "Infrared Monitor" is added.

The listings of "SigmaTel USB-IrDA Adapter" under "Network adapters" and "Virtual Infrared COM Port" and "Virtual Infrared LPT Port" under "Ports" indicate the network driver for the IrDA USB device has been properly installed.

To Enable Infrared Communications

- Double click the IrDA icon in the system tray in the lower right corner of your screen to bring up the "Infrared Monitor". The infrared communication could be in the disabled state.
- Click on "Options" then check "Enable infrared communication" box.
- Set the connection speed up to 4Mbps, and check "Limit connection speed to"
- Click "Apply" to start infrared communication service.
- Click "Status" to check the current status. The "Infrared Monitor" indicates it is currently searching for available infrared device within range. Your computer is now fully IrDA enabled.

File Transfer over Infrared

- Point the IrDA USB port at the Infrared Port on the other computer.
- Both systems detect each other and connect.
- The "Infrared Monitor" icon in the system tray on the Taskbar is activated.
- Double-click on the "Infrared Recipient" icon in "My Computer". The "Infrared Transfer" panel opens up and displays "One available Infrared device is within range."
- The connected Infrared device is shown in the panel.
- To transfer file, click on the "Send Files..." button.
- Locate the folder from "Look in" and select the files to be sent.
- Click on the "Open" button.
- The file is now transmitted to the other computer.
- The received files in another computer are stored in "My Received Files" of "Received Files".

To Turn on Infrared Monitor Sounds

- 1. Open the "Infrared Monitor" dialog box.
- 2. Click the "Preferences" tab.
- 3. Make sure "Play sounds before devices in range and interrupted communication" is selected.
 - You can open the "Infrared Monitor" dialog box by clicking "Start", pointing to "Settings", clicking "Control Panel", and double clicking "Infrared".
 - To turn off Infrared Monitor sounds, make sure "Play sounds for devices in range and interrupted communication" is cleared.
 - If your computer has a sound card, you can double-click the "Sounds" icon in "Control Panel" to change which sounds are assigned to Infrared Monitor events.

To be Notified when Infrared Communication is interrupted

- 1. Click the "Infrared" icon on the taskbar.
- 2. Click the "Preferences" tab
- 3. Select "Play sounds when available devices come within range and when communication is interrupted".

Windows 2000 Driver Installation

- 1. Insert driver CD to the CD ROM drive.
- 2. Choose CD ROM drive.
- 3. Go to the subdirectory "IrDA USB drv", and double click the file "Setup".
- 4. The SigmaTel USB-IrDA InstallShield Wizard appears.
- 5. Click "Next" to continue.
- 6. The Wizard shows "License Agreement", click "Yes" to accept the agreement. Click "Next" to copy program files required for installation.
- 7. Plug the IrDA-USB Adapt to an available USB port.
- 8. The computer will complete the driver installation.
- 9. Choose "Finish" to complete the installation, and the IrDA-USB Adapter is ready for use.

Checking Installation

You can now verify the installation by looking at the listings in the Device Manger. (Go there by Start-Settings-Control Panel-System-Hardware-Device Manager).

The listings of "SigmaTel USB-IR Dongle" under "Infrared Devices" indicating the drivers for the IrDA USB device have been properly installed.

In the Control Panel, a "Wireless Link" icon is added.

The plug-and-play icon in the device tray at the lower right hand corner of the desktop indicates the IrDA USB device is currently plugged in. Double click on the icon reveals that the IrDA USB device is working properly.

File Transfer over Infrared

To send a file from the computer connected with IrDA-USB Adapter :

- Point the IrDA USB port at the Infrared Port on the other computer.
- Both systems detect each other and connect.
- The "IR" icon in the system tray on the Taskbar is activated.
- A "Wireless Link" icon appears on the Desktop.
- Double-click on the "IR" icon, or "Wireless Link" icon, will bring up the Wireless Link dialog box.
- Locate the folder from "Look in" and select the files that you want to send.
- Click on the "Send" button.
- If the notebook or other computer is running Windows ME, 2000 or XP, the file will not be sent until permission to receive the file is confirmed on the notebook or other computer. When asked "Do you want to accept this file ?", click "Yes".
- The file is now transmitted to the other computer. The "IR" icon in the System Tray changes to show actual file data transfer.
- To receive a file from the other computer running Windows 2000 :
- Select a default folder to "received files". The default folder is the "Desktop".
- To select a new default folder, double-click on the "Wireless Link".
- Click on the "Properties" button to bring up the dialog box.
- The default location for received files is displayed. Click on "Browse" button.
- Select a folder of your choice or the "My Received Files" folder.
- Click "OK" to set the new default folder.
- Click "OK" to accept the new default folder to store received files.

Windows ME Driver Installation

- 1. Insert driver CD to the CD ROM drive.
- 2. Choose CD ROM drive.
- 3. Go to the subdirectory "IrDA USB drv", and double click the file "Setup".
- 4. The SigmaTel USB-IR InstallShield Wizard appears.
- 5. Click "Next" to continue.
- 6. The Wizard shows "License Agreement". Click "Yes" to accept the agreement. Click "Next" to copy program files required for installation.
- 7. Select "Finish" when file copy has finished.
- 8. Plug the IrDA-USB Adapter into an available USB port.
- 9. The computer will complete the driver installation.
- 10. Choose "Finish" to restart the computer, and the IrDA-USB Adapter is ready for use.

Checking Installation

You can now verify the installation by looking at the listings in the Device Manger. (Go there by Start-Settings-Control Panel-System-Hardware-Device Manager).

The listings of "Infrared Communication Device" under "Infrared device" and "SigmaTel USB-IrDA Dongle" under "Network adapters" are added to indicate the drivers for the IrDA USB device have been properly installed. In the Control Panel, a "Wireless Link" icon is added.

The plug-and-play icon in the device tray at the lower right hand corner of the desktop indicates the IrDA USB device is currently plugged in. Double click on the icon reveals that the IrDA USB device is working properly.

File Transfer over Infrared

To send a file from the computer connected with IrDA-USB Adapter:

- Point the IrDA USB port at the Infrared Port on the other computer.
- Both systems detect each other and connect.
- The "IR" icon in the system tray on the Taskbar is activated.
- A "Wireless Link" icon appears on the Desktop.
- Double-click on the "IR" icon, or "Wireless Link" icon, will bring up the Wireless Link dialog box.
- Locate the folder from "Look in" and select the files that you want to send.
- Click on the "Send" button.
- If the notebook or other computer is running Windows ME, 2000 or XP, the file will not be sent until permission to receive the file is confirmed on the notebook or other computer. When asked "Do you want to accept this file?", click "Yes".
- The file is now transmitted to the other computer. The "IR" icon in the System Tray changes to show actual file data transfer.

To receive a file from the other computer running Windows :

- Select a default folder to "received files". The default folder is the "Desktop".
- To select a new default folder, double-click on the "Wireless Link".
- Click on the "Properties" button to bring up the dialog box.
- The default location for received files is displayed. Click on "Browse" button.
- Select a folder of your choice or the "My Received Files" folder. Click "OK" to set the new default folder. Click "OK" to accept the new default folder to store received files.

Windows XP Driver Installation

Windows XP has built-in the driver support of IrDA USB Adapter. No extra driver installation is required.

Plug the IrDA-USB Adapter to an available USB port in your computer, the computer will automatically detect the infrared adapter and install the necessary drivers. Then, the IrDA-USB Adapter is ready to use.

Checking Installation

You can now verify the installation by looking at the listings in the Device Manger. (Go there by Start-Control Panel-Switch to Class View-System-Device Manager).

The listings of "SigmaTel USB-IR Dongle" under "Infrared Devices" indicating the drivers for the IrDA USB device has been properly installed.

In the Control Panel, a "Wireless Link" icon is added.

The plug-and-play icon in the device tray at the lower right hand corner of the desktop indicates the IrDA USB device is currently plugged in. Double click on the icon reveals that the IrDA USB device is working properly.

File Transfer over Infrared

To send a file from the computer connected with IrDA-USB Adapter:

- Point the IrDA USB port at the Infrared Port on the other computer.
- Both systems detect each other and connect.
- The "IR" icon in the system tray on the Taskbar is activated.
- A "Wireless Link" icon appears on the Desktop.
- Double-click on the "IR" icon, or "Wireless Link" icon, will bring up the Wireless Link dialog box.
- Locate the folder from "Look in" and select the files that you want to send.
- Click on the "Send" button.
- If the notebook or other computer is running Windows ME, 2000 or XP, the file will not be sent until permission to receive the file is confirmed on the notebook or other computer. When asked "Do you want to accept this file?", click "Yes".
- The file is now transmitted to the other computer. The "IR" icon in the System Tray changes to show actual file data transfer.

Using IrDA USB Adapter with New Nokia Phones (Nokia 6108,7650, 7250, 3650 and Others) & PC Suite

When installing the IrDA USB Adapter in Windows XP, XP will detect the IrDA-USB adapter and install the driver automatically. The built-in driver of XP normally works fine with most IrDA devices.

When used with new Nokia phones like 6108,7650, 7250, 3650,6100,6610,7210 or others, the phone is connecting and disconnecting every 2-3 seconds. You may need to change the default setting of the "Transceiver type" in Device Manager by doing the following :

1. Windows XP/2000: Go to "Control Panel"- "System"- "Hardware"-"Device Manager"-"Infrared Device".

Windows 98/ SE: Go to "Control Panel" – "Network" – "Configuration"-"SigmaTel USB-IrDA Dongle".

- 2. Double click "SigmaTel USB-IrDA dongle".
- 3. Select "Advanced".
- 4. Change the default "Infrared Transceiver Type" to "Vishay TFD". (the default type is "Infineon <default>"
- 5. Set the "Speed Enable" to "400000".
- 6. Click "OK" to exit.
- 7. Double click the "mRouter" in the task bar. The "Connection Property" will pop up. Under connection tab, check "Infrared", and "Close" to exit.
- 8. Enable the "Infrared" of your Nokia camera phone, and point the IrDA port of your phone to the IrDA USB Adapter.
- 9. Double click "PC Suite". You can do Back up/ Restore, Data Import, Synchronize, Image Transfer, etc., between your Nokia camera phone & the desktop PC.
- 10. If you encounter problem during transmission, you may need to go to step (5) to set the "Speed Enable" to lower speed, i.e., "115200" or "57600".

Using IrDA USB Adapter with New Sony Ericsson Phones P800/802,T610,T300/306/310/312/316,T68

When install the IrDA USB Adapter in Windows XP, XP will detect the IrDA-USB adapter and install the driver automatically. The built-in driver of XP normally works fine with most IrDA devices.

When used with new Sony Ericsson phones like P800/802, T610, T300/306/310/312, T316 & T68, you may need to change the default setting of the "Transceiver type" in Device Manager.

- 1. Go to "Control Panel"- "System"- "Hardware"-"Device Manager"-"Infrared Device".
- 2. Double click "SigmaTel USB-IrDA dongle".
- 3. Select "Advanced".
- 4. Change the default "Infrared Transceiver Type" to "Vishay TFD". (the default type is "Infineon <default>"
- 5. Set the "Speed Enable" to "400000".
- 6. Click "OK" to exit.

Download Images and Pictures from Desktop to the Phone

- 1. Enable the infrared port of your Sony Ericsson phone, and point the IrDA port to the USB adapter.
- 2. The phone is detected, and the "IR" icon in the system tray on the Taskbar is activated. A "Wireless Link" icon appears on the Desktop.
- 3. Double click the "Sony Ericsson Image Editor" on the desktop. Use the phone button to select your phone. Your phone is detected via infrared, and the model of your phone is shown.
- 4. Click "File", and select the image file that you want to download to your phone.
- 5. If the picture size is too big, you can adjust the size of the picture to make it fit in the screen of your phone by clicking the edit button of "minus" sign in the lower left corner.
- 6. You can start to download when the download sign is green. Click the sign.
- 7. Now, you need to follow the instructions on your phone. Your phone will show "incoming item", the memory status, and ask you if you want to continue.
- 8. Click "Yes" on your phone. The image file will be saved in "My Picture".
- 9. You can choose the picture downloaded, and set it as wallpaper or screen saver.

Synchronization

You can synchronize your contacts, calendar, and tasks between your mobile phone and Microsoft Outlook by using the free software provided with your phone. In the Windows taskbar, you can select either "Synchronize Outlook" or "AutoSync on Connect" for synchronization.

Download MMS Templates to Your Phone

By running the MMS Home Studio program, you can create your own MMS templates by using your preferred pictures and sounds. Via infrared connection, you can download them into your phone and send them to your friends.

IR HotSync Operations with PDA of Palm OS

Instead of using cradle, you can use the IR port of your PDA to perform HotSync operations with the desktop PC connected with IrDA USB Adapter.

Performing an IR HotSync Operation to Windows XP, 2000 & ME

- 1. In the Windows taskbar, click the HotSync Manager icon.
- 2. Select "InfraRed", and you are ready to perform an IR HotSync operation.
- 3. In the Application Launcher of your Palm, tape the HotSync icon.
- 4. Tap "Local".
- 5. Tap the pick list below the HotSync icon and select "IR to PC/Handheld".
- 6. Position the IR port of Palm within a couple of inches of the IrDA USB adapter.
- 7. A box appears on the screen showing "Beam: Waiting for Sender".
- 8. Click "Cancel", and tap the HotSync icon to start the IR HotSync operation.
- 9. The connection between your Palm and IrDA USB adapter is established. A high pitched beeps sound. The synchronization begins.
- 10. When the HotSync operation completes, another high pitched beeps sound.

To Check the COM Port Used for Infrared Communication (Windows 98)

- 1. In the Windows taskbar, click Start-Setting-Control Panel.
- 2. Double click Infrared.
- 3. Click the Options tab.
- 4. Select Enable infrared communication. The COM port displayed in the drop-down box is the port where IrDA Adapter is attached. It should be different from any port used by the HotSync Manager
- 5. Make a note of which COM port is listed as "Providing application support on COMx and LPTx". (The x is the Port Number. Normally, it's COM4 and LPT3). You need this COM port information to configure the HotSync Manager for infrared communication.
- 6. Deselect any other check boxes in the Options tab.
- 7. Click Apply and OK.
- 8. Go to HotSync Manager and specify the simulated port used for infrared communication.

Configuring HotSync Manager for Infrared Communication(Windows 98)

- 1. Click the HotSync Manager icon in the Windows system tray.
- 2. Make sure "Local" is checked on the menu.
- 3. Choose Setup.
- 4. Click the "Local" tab.
- 5. In the Serial Port drop-down box, select the COM port that was given as the simulated port in the Options tab of the Infrared Monitor. (For example, If the COM Port listed as Providing application support on COM4, then select COM4 in the Serial Port drop-down box).
- 6. Click "OK".
- 7. The HotSync Manager is now configured to communicate with the simulated port defined for infrared communication. You cannot use your cradle again until you reconfigure the HotSync Manager to communicate with the port defined for cradle synchronization.
- 8. Now, you are ready to perform an IR HotSync operation.

Performing an IR HotSync Operation to Windows 98

- 1. In the Application Launcher, tap the HotSync icon.
- 2. Tap Local.
- 3. Tap the pick list below the HotSync icon and select "IR to a PC/Handheld".
- 4. Position the IR port of Palm within a couple of inches of the IrDA USB Adapter.
- 5. Tap the HotSync icon below, and to start the IR HotSync operation.
- 6. A box appears on the screen showing "Beam : Waiting for Sender".
- 7. Click "Cancel", and tap the HotSync icon to start the IR HotSync operation.
- 8. The connection between your Palm and IrDA USB adapter is established. A high pitched beeps sound. The synchronization begins.
- 9. When the HotSync operation completes, another high pitched beeps sound.

IR Sync Operations with Pocket PC of Windows CE

After the installation of the IrDA USB Adapter, you need to configure ActiveSync on your computer.

Configuring ActiveSync for Infrared Communication

- 1. From the ActiveSync file menu, select "Connection Settings".
- 2. Check the box labeled "Allow serial cable or infrared connection to this COM port:"
- 3. Click "OK"
- 4. From the drop-down box select "Infrared Port". If your Pocket PC is connected to the desktop computer via USB or Ethernet connection, the drop-down box will be grayed out. You need to disconnect the PDA from the USB cable or cradle to enable the selection.

Performing an IR Sync Operation

- **1.** Turn on your Pocket PC, and point the infrared port to the IrDA USB Adapter.
- 2. Tap on "Start".
- 3. Tap on "Program", and then on "Connections"
- 4. Tap on "IR ActiveSync".
- 5. A box appears on the screen showing "Connect To Infrared Port". The pocket PC is searching for infrared connection.
- 6. The connection between your pocket PC and IrDA USB Adapter is established. A series of high pitched beeps sound.
- 7. The synchronization begins.
- 8. To disconnect when synchronization finishes, move the Pocket PC away to break the IR connection.

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