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**Datacard<sup>®</sup> RP90 Plus E Card Printer  
and RL90 Laminator**

*Hardware and Driver Installation Manual*

June 2008

Part No. 539652-002, Rev C

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## Revision Log

### Datacard RP90 Plus E Printer Installation Manual

Revision	Date	Description of Changes
A	October 2006	First RP90 Plus Release
B	September 2007	Pages 2 and 3
C	June 2008	RP90 Plus E release—add network install and update USB install

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# Preparing for Installation

The components of your card system should be installed in the following order:

- Printer and optional laminator
- Printer driver and optional status monitor
- Optional smart card field upgrade module
- ID software, such as Datacard® ID Works® software
- Printer Plug-in software

## Packing lists

The shipping carton for the Datacard® RP90 Plus E Card Printer contains:

- RP90 Plus E Card Printer
- Power Cord
- RP90 Plus E and RL90 User Guide (PN 570024-001)
- Cleaning Card
- Card Stacker
- Ink Ribbon Cassette
- Retransfer Film Cassette
- USB Cable
- RP90 Plus E Installation Manual (PN 539652-001)
- CD-ROM, RP90 Plus E Support (PN 570025-001)

The shipping container for the optional RL90 Laminator contains:

- RL90 Card Laminator
- Joining Plate
- Cleaning Card
- Power Cord
- Connecting Cable (PN 805865-003)
- Take-up Core
- RP90 Plus E and RL90 User Guide (PN 570024-001)
- RP90 Plus E Installation Manual (PN 539652-001)

## Unpacking the RP90 Plus E Printer



**Caution:** The RP90 Plus E Card Printer weighs approximately 49 pounds (22kg). Use care when removing the printer from the shipping container.

Remove the RP90 Plus E card printer from the shipping carton. Remove all packing tape from inside and around the printer. Remove the protective cushion that protects the printhead.



**Note:** Save the shipping carton and packaging materials. They are required if you need to store, move or return the printer for service. Replacements are not available.

## Unpacking the Optional RL90 Laminator



**Caution:** The RL90 Laminator weighs approximately 17 pounds (8kg). Use care when removing the laminator from the shipping container.

If this option is purchased, remove the optional RL90 Laminator from the shipping container. Make sure to remove all packing tape inside and around the laminator. Remove the protective cushion that protects both the heated roller and the platen roller.



**Note:** Save the shipping carton and packaging materials. They are required if you need to return the laminator for service. Replacements are not available.

## Unpacking other options

The printer can have a smart card module installed in the field. For best results, set up the printer and verify that it operates, and then install the optional smart card module.

# Installing the Printer

## Choosing a Location

The location of installation affects the performance of the RP90 Plus E and the optional RL90 Laminator. Install them in a location that meets the following criteria.

- Use the card printer in locations with the cleanliness Class 8 or better of ISO14611-1. Using the card printer in dusty locations may cause print blurring and printhead malfunctions. Turn the power off whenever no printing operation is required. Leaving power on for long periods without printing may cause fine dust to collect inside the printer, causing print blurring and dust to adhere to cards.
- Avoid locations susceptible to strong vibration or shock.
- Avoid locations exposed to direct sunlight.
- Avoid locations where there is a possibility of metal objects or other foreign material entering the unit.
- Avoid areas near walls with little ventilation.

- Avoid unstable locations and angled surfaces.
- Avoid locations prone to static electricity, such as a carpeted room.
- Avoid areas near air conditioners, humidifiers, or heat sources that may cause condensation within the printer.

The printer is to be installed in an environment with the following recommended temperature and humidity range:

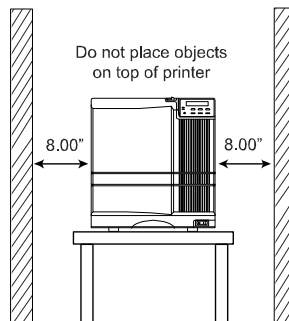
- Temperature: 59°F. to 86°F. (15°C. to 30°C.)
- Humidity: 35% to 70%



**Caution:** Using the printer in an environment with temperatures lower than the recommended range may cause retransfer errors. Using the printer in an environment with temperatures higher than the recommended range may cause print errors including deformation of the cards and wrinkling of the film.

## Providing Adequate Printer Ventilation

Ventilation holes are provided for the cooling fans on the bottom and sides of the unit. Install the unit so the sides are at least 7.9 inches (200mm) away from the surrounding wall. Keep the back of the unit at least 3.9 inches (100mm) away from a wall. Do not place any objects on top of the unit.



## Connecting the Optional RL90 Laminator

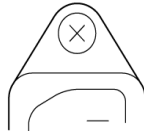
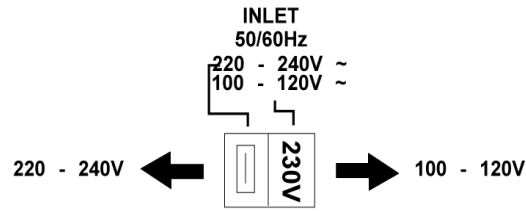


Make sure to install the units on a secure, level surface. Make sure the laminator and the printer fit securely into the joining plate holes.

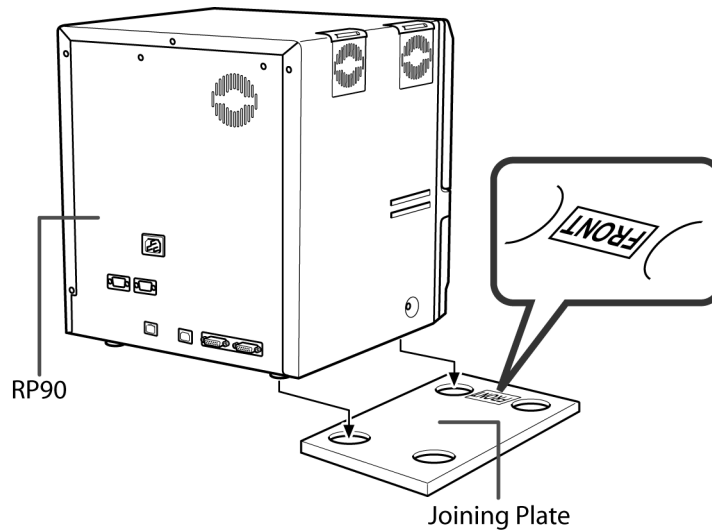


**Caution:** Make sure that the power switch is turned OFF and the power cable is detached from the receptacle before connecting or disconnecting the laminator. If not, electric shock, fire, or malfunction of the product might occur.

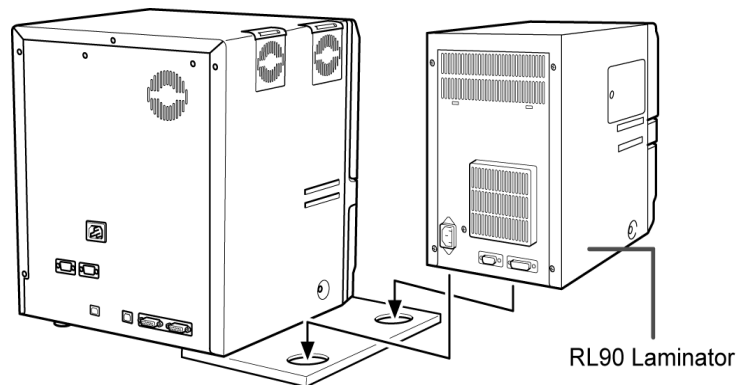
1. On the back of the laminator, set the voltage switch above the power receptacle according to your power requirements. (The factory default setting is 220-240V AC.)



2. Mount the RP90 Plus E printer over the holes on the joining plate as shown in the following figure.



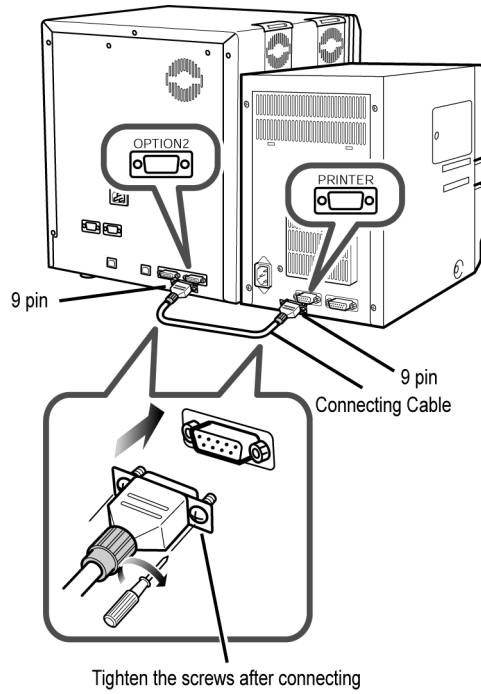
3. Mount the RL90 laminator over the remaining two holes on the joining plate as shown in the figure below.



4. Connect one end of the connecting cable to the connector labeled OPTION 2 on the printer and connect the other end to the connector labeled PRINTER on the laminator.



**Caution:** Always power off the printer and laminator before you connect or disconnect the laminator cable.

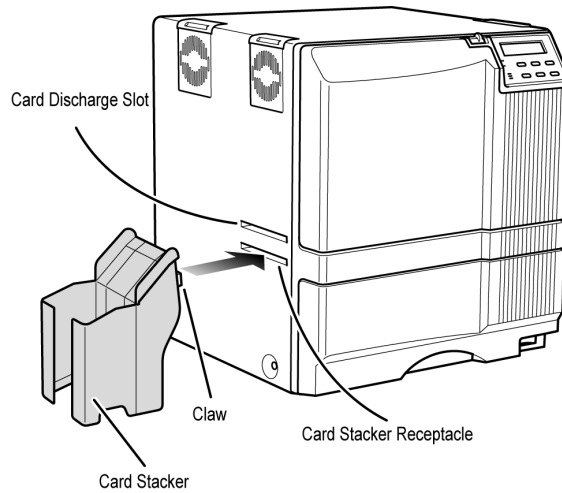


# Installing the Card Stacker

## Card Stacker on Printer

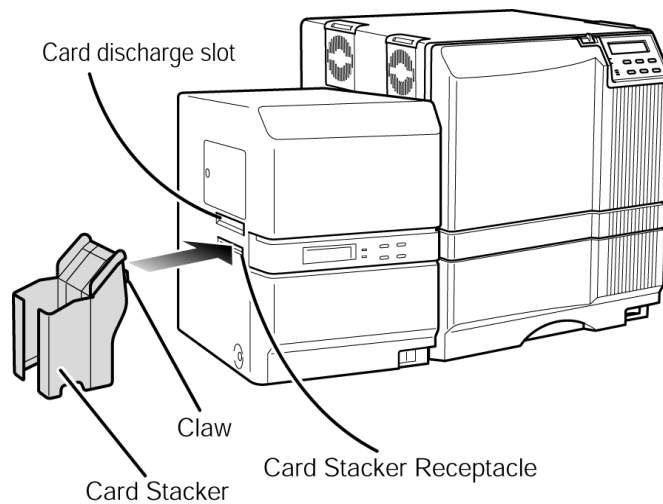
Hang the stacker claw on the stacker receptacle as shown in the following figure. Be sure to hang the card stacker claw on the card stacker receptacle, not on the card discharge slot.

**i** The card stacker can hold up to 100 0.76mm (0.03 inch) thick cards or 280 0.25mm (0.01 inch) thick cards.




## Card Stacker on Optional Laminator


When the optional RL90 laminator is installed, mount the card stacker claw on the laminator's card stacker receptacle. Be sure to hang the card stacker claw on the card stacker receptacle, not on the card discharge slot.

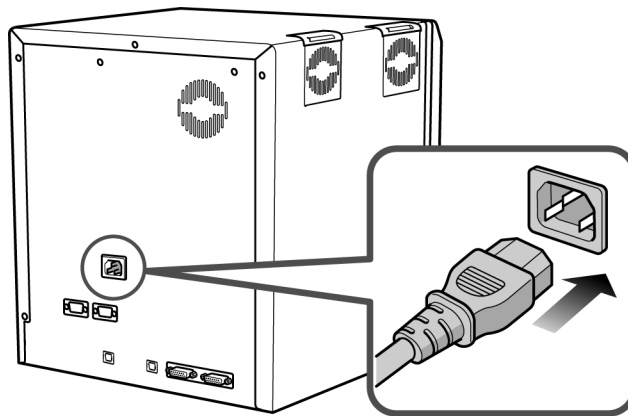


## Connecting the Power Cord(s)

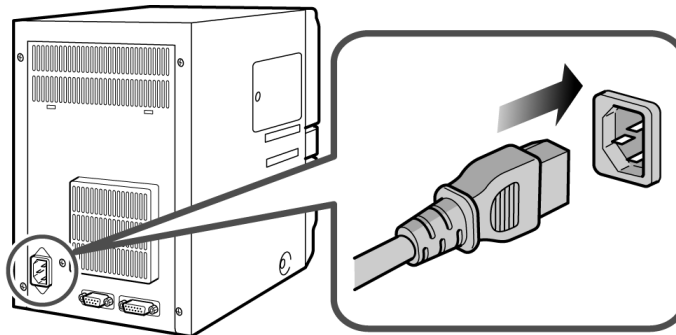
 **Warning:** Always use a grounded power outlet that is not shared with other electrical equipment.

1. Check the plug. The power cords vary according to model and country of purchase.
2. Plug the power cable into the back of the printer.


 **Caution:** Use an Automatic Voltage Regulator (AVR) if there is a possibility of voltage fluctuations. Use an uninterruptible power source rather than an AVR if there is a possibility of frequent power loss.



3. If you use the optional RL90 laminator, plug the power cable into the back of the laminator.




4. Plug the power cord(s) into the facility power source.

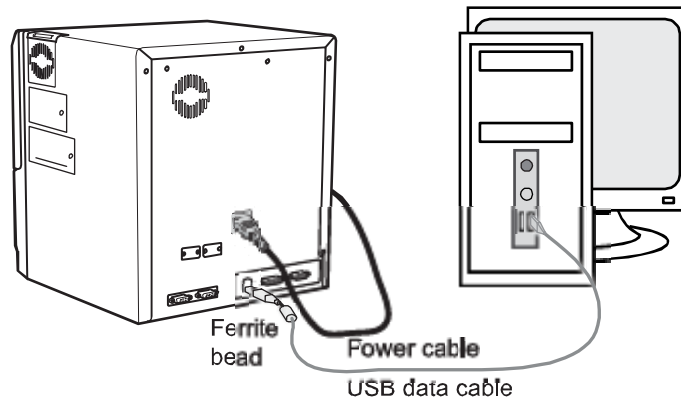
 **Caution:** Do not power on the printer until instructed to do so during the installation of the printer driver.

# Connecting the Data Cable

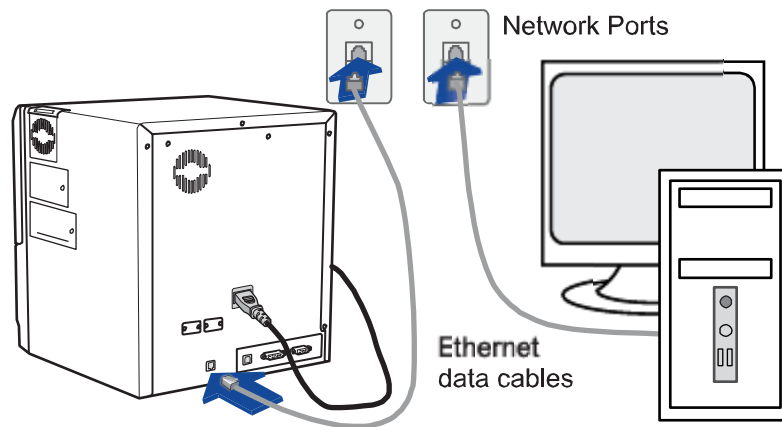
Connect the data cable when the driver installation instructions tell you to do so.


 **Caution:** Use only one data cable at a time.

## Connect the USB Cable



## Connect the Network Cable



 **Note:** If you plan to use the Datacard Software Plug-in and smart card, use only a USB cable for the data cable. A network connection for smart card is not supported by the Datacard Software Plug-in.



# Installing the Printer Driver

Do not connect the printer data cables or power on the printer until directed to do so.

You can install the printer in one of the following ways:

- Using a USB connection. See [“Install using a USB connection” on page 9.](#)
- Using a Network connection. See [“Install using a Network connection” on page 22.](#)
  - If you need to assign a different printer name, set up IPsec security, set IP addresses from the PC, you need to follow different procedures. See [“About Network Installation” on page 18](#) for details.
- Sharing a printer over a network. See [“Sharing a Printer on a Network Connection” on page 32](#)

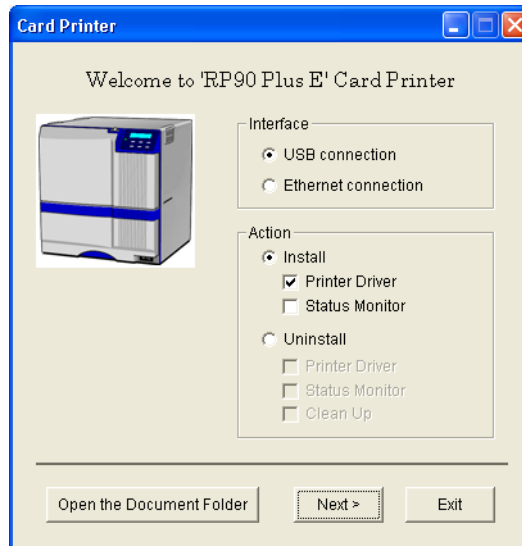
You can also install the Status Monitor. See [“Installing the Status Monitor” on page 30.](#)

## Install using a USB connection

1. Start the Windows® XP, Windows 2000 or Windows Vista® operating system and log in as a user with Administrator permissions.
2. Insert the RP90 Plus E Support CD-ROM in the PC drive.
3. On Windows Vista, a User Account Control dialog might appear. Click **Allow** to continue.
4. When the opening window is displayed, choose **Install the Printer**.
5. Choose **Install the RP90 Plus E Driver**.
6. On Windows Vista, click “Allow” on the Security dialog box and then click “Continue” on the User Account Control Dialog.



7. The Card Printer installation window opens.



8. Make sure that the following are checked and then click **Next**:

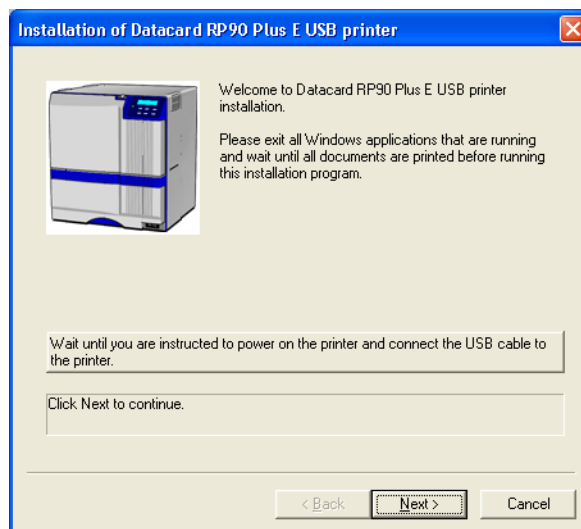
- USB connection
- Install
- Printer Driver

9. On the Software License Agreement, Click **I agree** and then click **Next**.

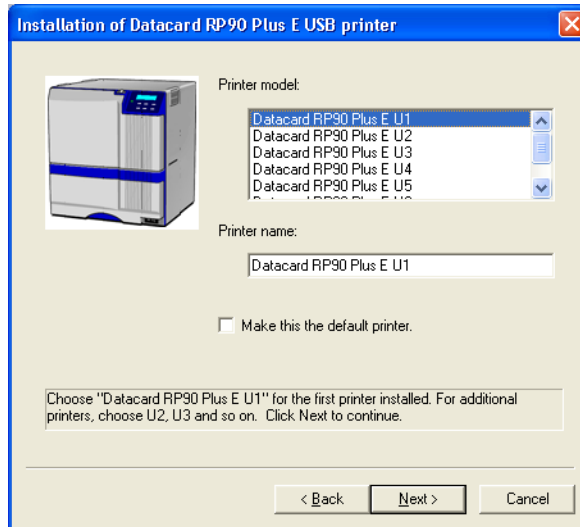
10. When the following dialog box appears, make sure all printing from the PC is complete and then close all other Windows applications. When ready, click **Next**.



Close all active programs before installing the printer driver.



11. Select the Printer model from the table. If this is the first RP90 Plus E printer installed on this PC, the default printer is "Datacard RP90 Plus E U1." For best results, use the printer name shown.
  - "U1" is the unit number, and it must match the USB port you create and the "Unit No." setting described in the *Printer LCD Panel* section of the *User Guide*.

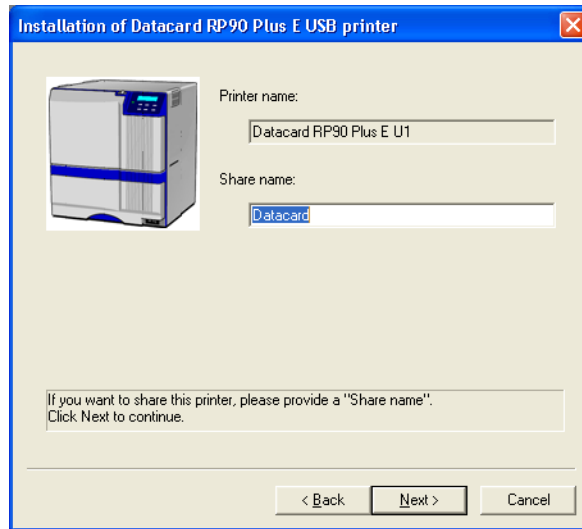


- If this is not U1, set the unit number of the printer now, as described in the *Printer LCD Panel* section of the *User Guide*. Then, continue with installation.

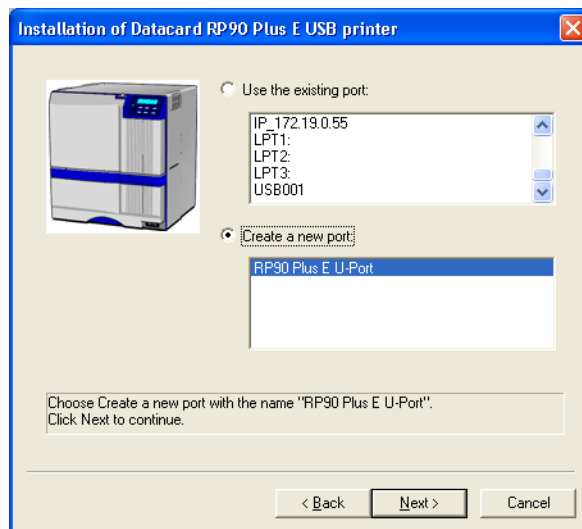
Unit No. Setting in Printer LCD Panel	Printer Model of This Dialog Box	USB Port
1 (Default)	Datacard RP90 Plus E U1	RP90 Plus E U1
2	Datacard RP90 Plus EU2	RP90 Plus E U2
3	Datacard RP90 Plus EU3	RP90 Plus E U3
4	Datacard RP90 Plus E U4	RP90 Plus E U4
5	Datacard RP90 Plus E U5	RP90 Plus E U5
6	Datacard RP90 Plus E U6	RP90 Plus E U6
Unit No. 7	Datacard RP90 Plus E U7	RP90 Plus E U7

12. Check the **Make this the default printer** box if you plan to use only this printer from this PC. Click **Next**.

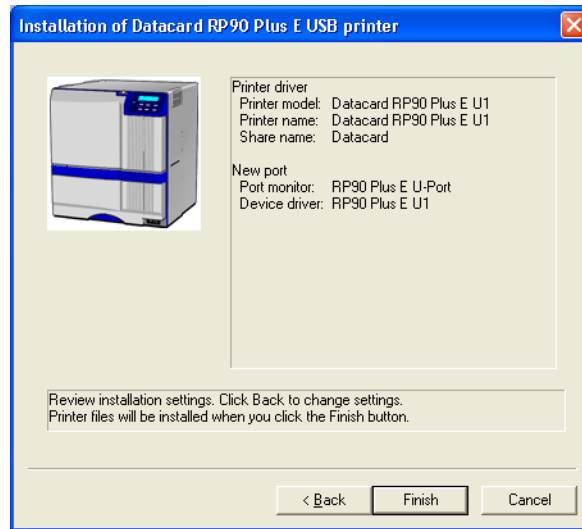
13. The printer is installed with sharing enabled by default. Enter a “Share name” if needed, and then click **Next**. The Share name cannot contain any spaces.



- To share the printer, see [“Sharing a Printer on a Network Connection” on page 32](#). The printer name used in this section is Datacard® RP90 Plus E U1.
  - Sharing can be disabled after the driver is installed, if needed.
14. Choose **Create a new port**: and use the port name provided. Click **Next**.



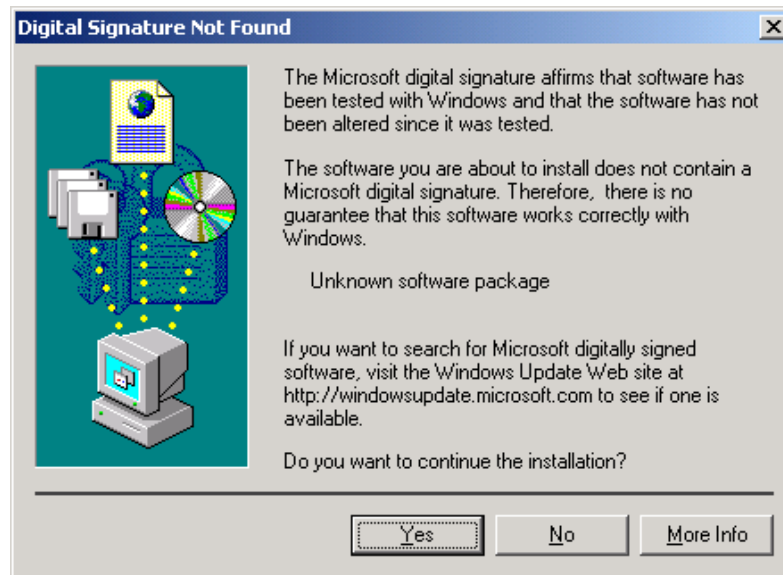
15. Review the summary of choices and then click **Finish**. The wizard copies driver files.



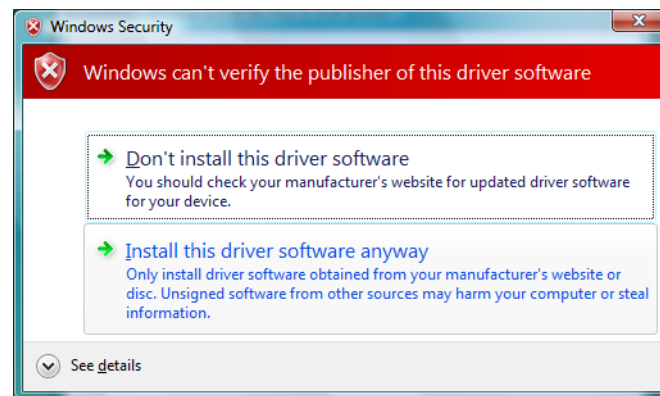
16. A Windows message appears.
- On Windows XP, the Windows Logo testing message appears. Click **Continue Anyway** to continue with installation.



- On Windows 2000, the Digital Signature Not Found message appears. Click **Yes** to continue with installation.

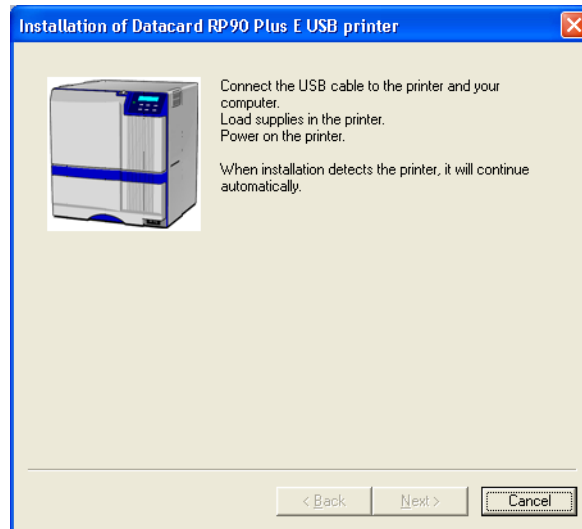


- On Windows Vista, a Windows Security dialog box can appear. Choose **Install this driver . . .** to continue.



- Security on the PC might be set to prevent installation without a digital signature. See Windows help for "digital signature" or "Logo signing" to change the security setting.

17. The installation displays instructions to install supplies, connect the USB cable and power on the printer.
  - See *Using the Printer* in the *User Guide* to install supplies and power the printer.
  - See “[Connecting the Data Cable](#)” on page 8 to connect the USB cable.



18. The found new hardware popup might appear.




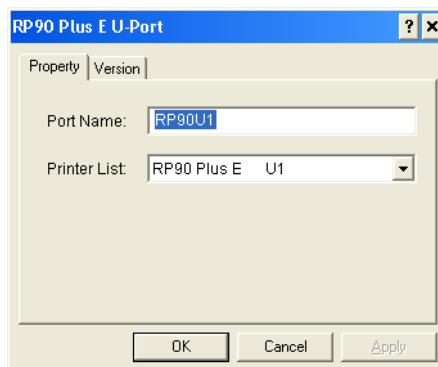
19. When the installation detects the printer, it continues automatically.
20. On PCs running Windows XP with Service Pack 2, the Welcome to the Found New Hardware Wizard provides the option to search the internet for a driver. Click **No, not this time** and then click **Next**.

21. On PCs running Windows XP and 2000, click the **Install the software automatically (Recommended)** button and then click **Next** (Windows XP only). The wizard searches for driver files.

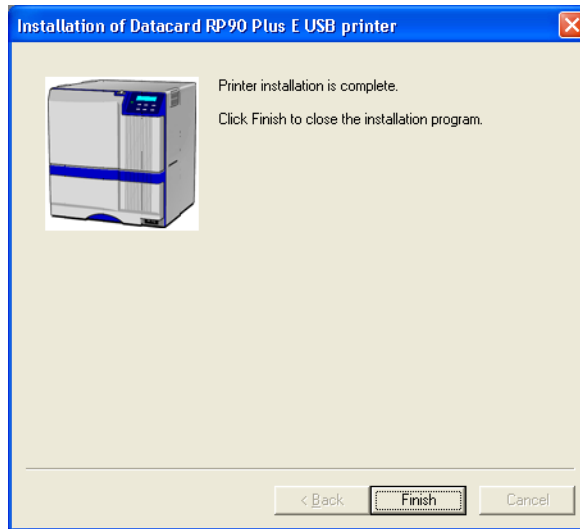


22. A Windows message appears.
- On Windows XP, the Windows Logo testing message appears. Click **Continue Anyway** to continue with installation.
  - On Windows 2000, the Digital Signature Not Found message appears. Click **Yes** to continue with installation.
  - On Windows Vista, a Windows Security dialog box can appear. Choose **Install this driver . . .** to continue.
23. On PCs running Windows XP and 2000, a Found New Hardware Wizard dialog box might appear stating that the wizard is installing the software. Click **Finish** to continue.
24. The RP90 Plus E U-Port dialog box appears. On the **Property** tab, review the information. For best results, do not change the information. Click **OK**.

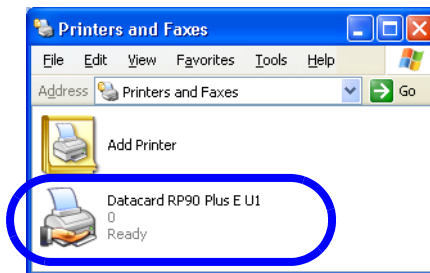
-  If the Printer List displays “No Device,” the USB connection is not correct. Continue with installation until finished. After the installation is complete, remove the printer driver and then install it again.



25. The following dialog box might appear in the background. Click **Finish** to close it.



26. Check to make sure that the new printer appears in the Printers and Faxes window.



27. Installation of the printer driver is now complete.

Continue with installing the Status Monitor. See [“Installing the Status Monitor”](#) on page 30.

After installing the driver and optional Status Monitor, you can install the optional Datacard® ID Software plug-in for the RP90 Plus E Printer.

-  If you want to delete the printer, restart Windows and then follow the steps in [“Removing the Printer Driver”](#) on page 37.

# About Network Installation

You can install the printer over the network with the following choices:

- Use DHCP or static addressing  
This choice can be set using the LCD panel or the Status Monitor. It does not affect the procedure you use to install the printer. See [“Choosing How to Assign the Network Address” on page 18](#) for information about the choices.
- Use a unique printer name  
Using the printer LCD panel, you can assign a printer name such as PRINTER01 to PRINTER09. If you need to use a different printer name, you must install the printer using a USB connection to at least one PC, assign the printer name using the Status Monitor, and then install it as a network printer. See the *User Guide* for steps to use the LCD panel and the Status Monitor.
- Use IPsec security  
To use IPsec security, you must install the printer using a USB connection, download files for security, and then install the printer as a network printer. The network administrator for your network can tell you the type of security your network uses, and help with obtaining the needed keys or certificates.  
See [“IP Security Using a Printer Certificate” on page 19](#) or [“IP Security Using a Preshared Key” on page 21](#) for the steps to follow.

Network settings include how the IP Address is assigned, assigning address values, and whether to use IP security.

## Choosing How to Assign the Network Address

You can use a permanent IP address (called static IP) on any network. A static IP address is stored in the printer and is entered at the PC. The advantage of using a static IP address is that the printer address does not change.

The network connecting the printer and PC must support DHCP and DNS (Domain Name System) to use DHCP. DHCP uses a printer name that does not change, such as PRINTER01, combined with an IP address that can change. The DHCP server keeps track of the printer name and the current IP address for the printer. The printer is identified on the PC by its printer name.

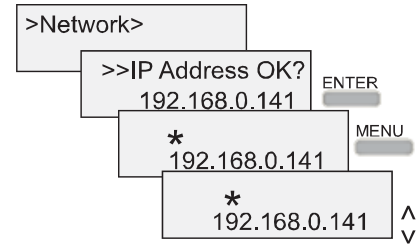
You can set the IP address using the printer LCD panel or using the Printer Select tab of the Status Monitor. See [“Setting Network Address Values” on page 18](#) to set the IP address using the printer LCD panel. See the *Using the Printer LCD panel* in the *User Guide* to set the printer name using the Status Monitor.

## Setting Network Address Values

To set the IP Address, Subnet Mask, or Gateway Address when DHCP is set to OFF, follow the steps in this section.

- 1 On the printer LCD panel, press the MENU key to access printer settings.
- 2 Continue to press the MENU key until the LCD panel displays >Network>.
- 3 Press the ENTER key. The Display shows the current IP Address.

- 4 Continue to press the MENU key until the setting you want to change, such as IP Address, is displayed.
- 5 Press the ENTER key. The display shows an asterisk (\*) above the digit to change.
- 6 Use the Up or Down Arrow keys to change the number.
- 7 When the digit is correct, press the MENU key to move the next digit.
- 8 When all digits are correct, press the ENTER key to save the settings and move to the next menu entry.



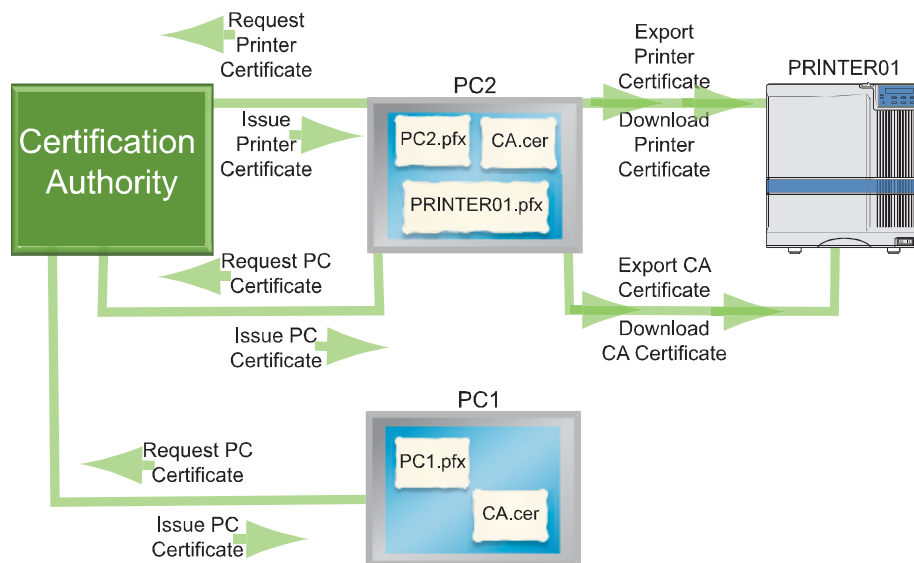
## IP Security Using a Printer Certificate

To use IPsec security using a Printer Certificate, you need to obtain certificates from a certificate authority for the printer and for each PC that will print to it. The certificates must be available before setting up IPsec. For more information about IPsec security, search Windows help for "IPSEC."

### Tips for success

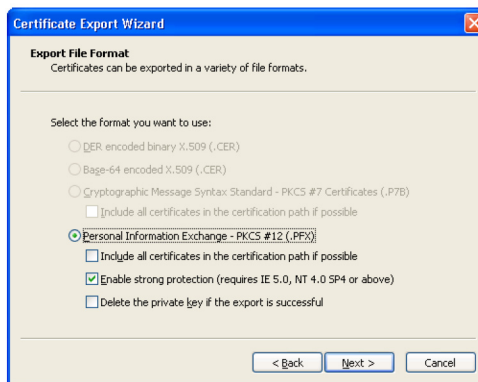
- Each PC that uses the printer must have a certificate installed to use the printer after IPsec security has been set up. If the network already uses certificates, the PC is likely to have its certificate installed. The diagram shows the PC's certificate, but the procedure does not describe it.
- The printer certificate should be requested once for each printer. It must be an exportable key, and should be downloaded once.
- After IPsec security is set up on the printer, the IPsec Mode and IPsec Type values on the printer LCD panel are view-only settings.
- Track the expiration dates for all certificates used. If a certificate expires, communication between the printer and PC can fail and cards will not print.

The following shows the process you might follow to enable two PCs to print using a Printer Certificate with IPsec.



To set up IPsec Security using a printer certificate, do the following:

1. Obtain the printer certificate and install it on the PC.
2. Export the Printer Certificate and Certificate Authority (CA) Certificate to files.
  - A. Open the Management Console by choosing Start > Run. Type mmc in the Run dialog and click OK.
  - B. Start “Certificate (Local Computer).”
  - C. Open the personal store run the Certificate Export Wizard.
  - D. Choose “Personal Information Exchange PKCS#12 (.PFX)” as the format.



- E. Specify a password for the file. Allowed characters are upper and lower case letters (A-Z), numerals (0-9), and the special characters hyphen (-), underscore (\_), open and close parentheses(), period (.), and the at symbol (@).
  - F. Note the location of the file for use later in the procedure.
  - G. Export the CA Certificate also if it does not exist in file form.
3. Power on the printer. For best results, do not send any cards to print.
4. Use the printer LCD panel to set IPsec Mode to ON. See the *Printer LCD Panel* section of the *User Guide*.
5. Use the printer LCD panel to set IPsec Type to Certificate.
6. Install the printer using a USB connection and install the Status Monitor. See “[Install using a USB connection](#)” on page 9 and “[Installing the Status Monitor](#)” on page 30 for the steps to follow.
7. Open the Status Monitor as an administrator. See the *Open the Status Monitor* section in the *User Guide*.
8. Click the Printer Select tab. It shows the Security settings chosen on the printer in steps 4 and 5 above. Do the following:
  - A. Click Details. The IPsec setting dialog box opens.
  - B. Choose the correct choice from the Download Type list.

- C. Click Select. The Select Certificate Download File dialog box opens.
  - D. Browse to the location of the Printer Certificate or CA Certificate.
  - E. Select the file and then click Write. The Status Monitor sends the file to the printer.
  - F. Repeat steps B through E for the second file (Printer Certificate or CA Certificate, whichever was not downloaded in step d) to download.
9. Remove the USB cable connecting the printer and PC.
  10. Install the printer using a LAN connection See [“Install using a Network connection” on page 22.](#)

## IP Security Using a Preshared Key

To use IPsec security with a Preshared Key, create a key file and then define it to the PC.

### Tips for success

- Each PC that uses the printer must use the shared key to use the printer after IPsec security has been set up.
- After IPsec security is set up on the printer, the IPsec Mode and IPsec Type values on the printer LCD panel are view-only settings.
- For more information about IPsec security, search Windows help for “IPSEC.”

To set up IPsec security using a Preshared Key, do the following:

1. Create a key.
  - A. Using an application such as Notepad, create a text file for the key.
  - B. Allowed characters are upper and lower case letters (A-Z), numerals (0-9), and the special characters hyphen(-), underscore (\_), open and close parentheses(), period (.), comma (,), and the at symbol (@).
  - C. The key can be up to 255 characters long.
  - D. Save the file with an extension of “.key”.
2. Open the Management Console by choosing Start > Run. Type mmc in the Run dialog and click OK.
3. Start IP Security Policy Management. This choice is available after IP security has been set up on the PC.
4. Open the “Edit Authentication Method Properties” dialog box for the policy.
5. Choose “Use this string:” and enter the key from step 1.
6. Click OK to save the value and close the dialog box.
7. Power on the printer. For best results, do not send any cards to print.
8. Use the printer LCD panel to set IPsec Mode to ON. See the *Printer LCD Panel* section of the *User Guide*.

9. Use the printer LCD panel to set IPSec Type to Preshared Key.
10. Install the printer using a USB connection and install the Status Monitor. See [“Install using a USB connection” on page 9](#) and [“Installing the Status Monitor” on page 30](#) for the steps to follow.
11. Open the Status Monitor as an administrator. See the *Open the Status Monitor* section in the *User Guide*.
12. Click the Printer Select tab. It shows the Security settings chosen on the printer in steps 8 and 9 above. Do the following:
  - A. Click Details. The IPSec Setting dialog box opens.
  - B. Choose Preshared Key from the Download Type list.
  - C. Click Select. The Select Certificate Download File dialog box opens.
  - D. Browse to the location of the key file from step 1.
  - E. Select the file and then click Write. The Status Monitor sends the file to the printer.
13. Remove the USB cable connecting the printer and PC.
14. Install the printer using a LAN connection See [“Install using a Network connection” on page 22](#).

## Install using a Network connection

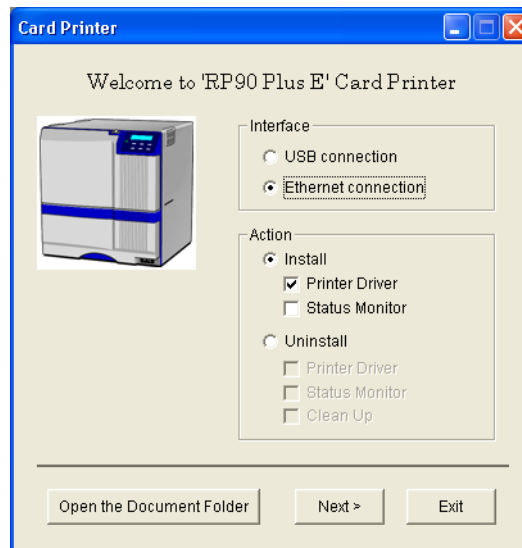
If your network administrator will assign the network address to the printer, obtain the network address before beginning this procedure.

1. Install printer supplies and power on the printer. See *Using the Printer* in the *User Guide* to install supplies and power on the printer.
2. Connect the Ethernet cable to the network and to the printer. See [“Connecting the Data Cable” on page 8](#) for the steps to follow.
3. Set Network > Host Interface to **LAN**, as described in the *Printer LCD Panel* section of the *User Guide*.
4. If you will use DHCP addressing, choose **On** for Network > DHCP, as described in the *Printer LCD Panel* section of the *User Guide*.
5. If you are using static addressing, set Network > DHCP to **Off**. Set the IP address using the LCD panel, as described in [“Setting Network Address Values” on page 18](#).
6. After saving settings, power the printer off, wait a minute, and then power the printer on.
7. If you set DHCP to On, view the network address, as described in the *Printer LCD Panel* section of the *User Guide*.
8. Start the Windows® XP, Windows 2000 or Windows Vista® operating system and log in as a user with Administrator permissions.

9. Insert the RP90 Plus E Support CD-ROM in the PC drive.
10. For Windows Vista, the User Account Control dialog appears. Choose **Allow** to continue installation.
11. When the opening window is displayed, choose **Install the Printer**.



12. The Card Printer installation window opens.

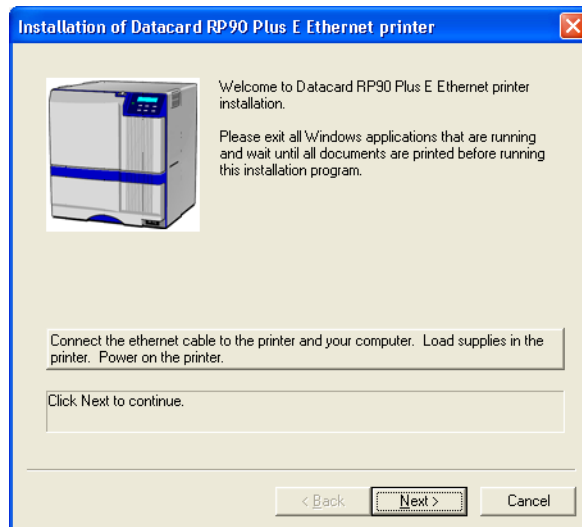


13. Make sure that the following are checked and then click **Next**:
  - Ethernet connection
  - Install
  - Printer Driver

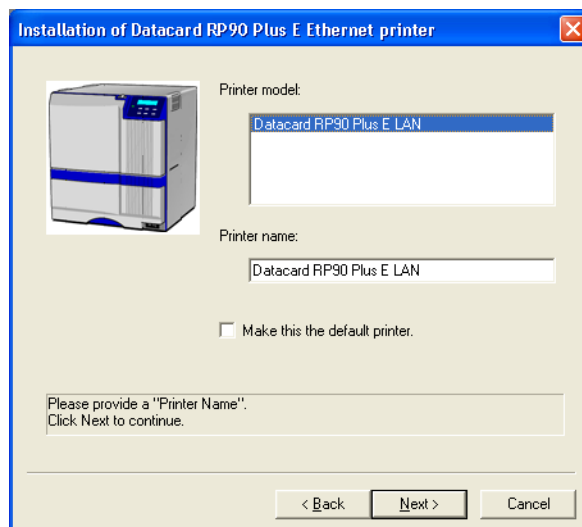
14. On the Software License Agreement, click **I agree** and then click **Next**.
15. When the following dialog box appears, make sure all printing from the PC is complete and then close all other Windows applications. Confirm that the printer is ready and then click **Next**.



Close all active programs before installing the printer driver.

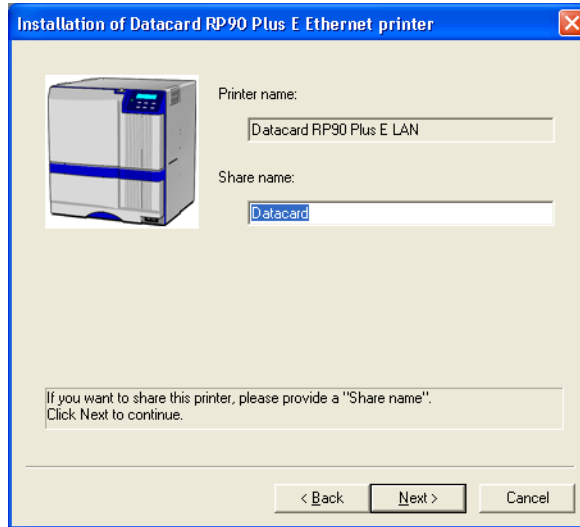


16. Select the Printer model from the list. If this is the first RP90 Plus E printer installed on this PC, the default printer is "Datacard RP90 Plus E LAN." For best results, use the printer name shown.



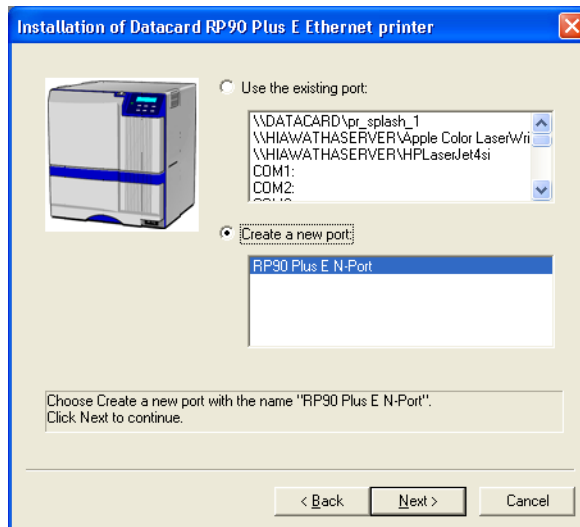
17. Check the **Make this the default printer** box if you plan to use only this printer from this PC. Click **Next**.

18. The printer is installed with sharing enabled by default. Use the default name or enter a “Share name” if needed, and then click **Next**. The Share name cannot contain any spaces.

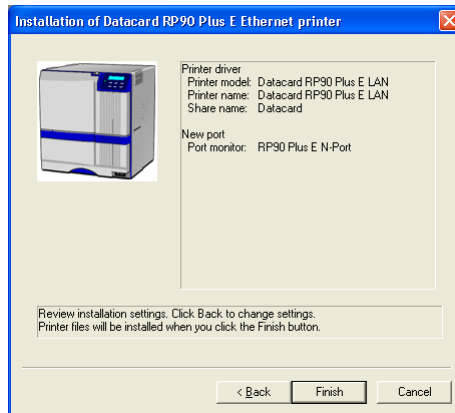


- To share the printer, see “[Sharing a Printer on a Network Connection](#)” on [page 32](#). The printer name used in this section is Datacard® RP90 Plus E LAN.
- Sharing can be disabled after the driver is installed, if needed.

19. Choose **Create a new port:** and then click **Next**.



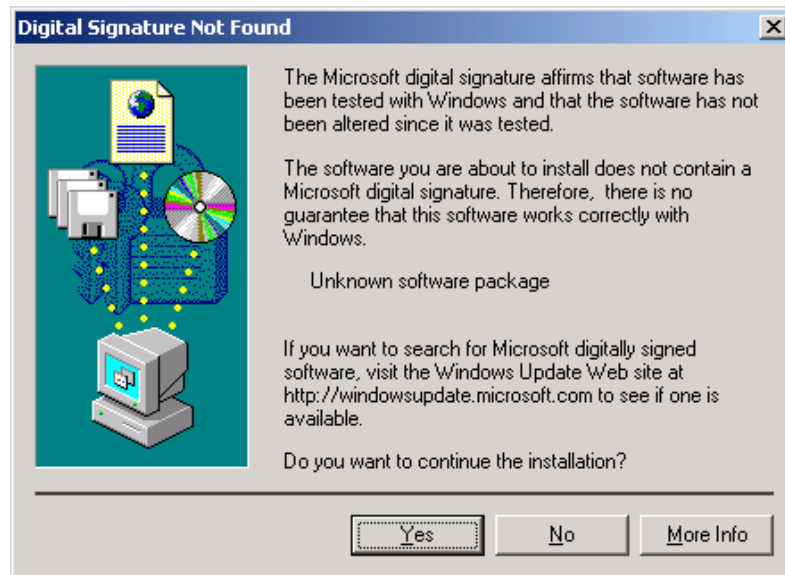
20. Review the summary of choices and then click **Finish**. The wizard begins copying driver files.



21. The installation displays a message regarding port creation.
22. A Windows message appears.
- On Windows XP, the Windows Logo testing message appears. Click **Continue Anyway** to continue with installation.

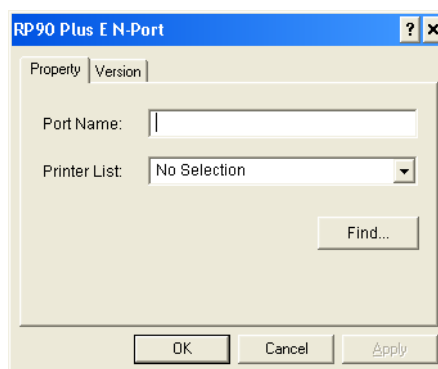


- On Windows 2000, the Digital Signature Not Found message appears. Click **Yes** to continue with installation.



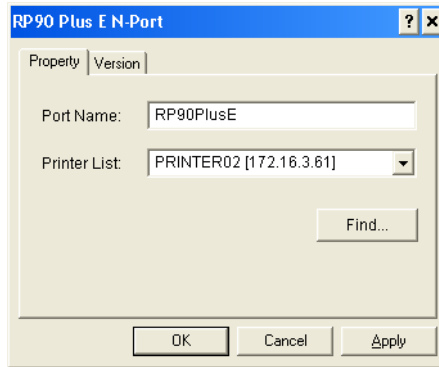
- On Windows Vista, the Windows Security Alert appears. Click Unblock to enable the PC to communicate with the printer.
- Security on the PC might be set to prevent installation without a digital signature. See Windows help for "digital signature" or "Logo signing" to change the security setting.

23. The RP90 Plus E N-Port dialog box appears. On the **Property** tab, enter a port name, such as **RP90 Plus E LAN**.



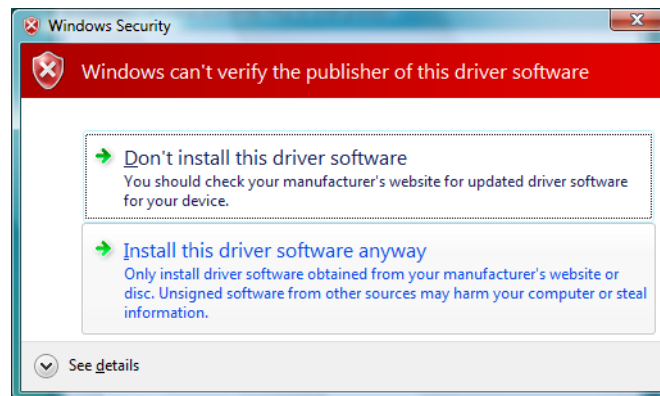
24. From the Printer List, choose the entry with the printer name and IP address. Click **OK**.

- If the printer name and IP address do not appear, retrieve the IP address, as described in the *Printer LCD Panel* section of the *User Guide*, and then click **Find**.

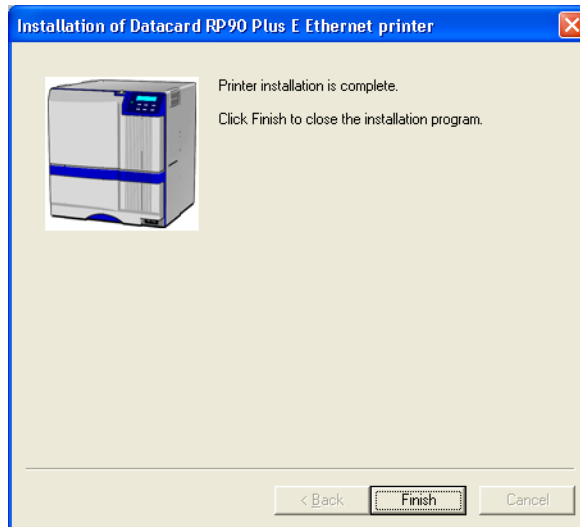


25. A Windows message appears.

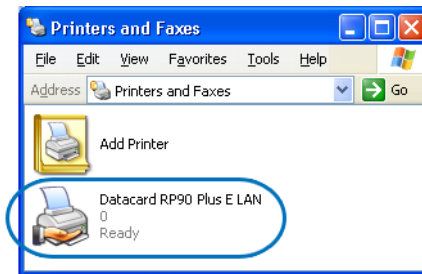
- On Windows XP, the Windows Logo testing message appears. Click **Continue Anyway** to continue with installation.
- On Windows 2000, the Digital Signature Not Found message appears. Click **Yes** to continue with installation.
- On Windows Vista, the Windows Security dialog box appears. Choose **Install this driver . . .** to continue with installation.



26. The last page of the wizard appears. Click **Finish**. You can leave the CD-ROM in the PC drive.



27. Check to make sure that the new printer appears in the Printers or Printers and Faxes window.



28. Installation of the printer driver is now complete.

Continue with installing the status monitor.

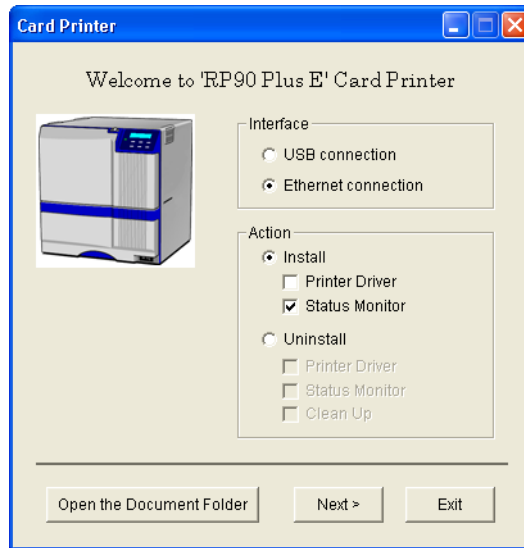
After installing the driver and optional Status Monitor, you can install the optional Datacard® ID Software plug-in for the RP90 Plus E Printer.

-  If you want to delete the printer, restart Windows and then follow the steps in ["Removing the Printer Driver"](#) on page 37.

# Installing the Status Monitor

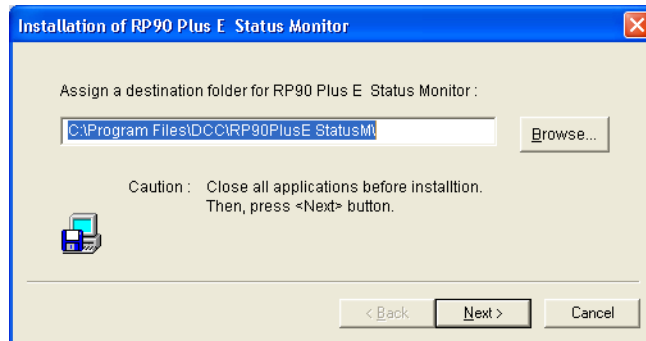
Install the Status Monitor on the PC connected directly to the printer. If you are installing the status monitor as part of driver installation, begin with step 6.

1. Start the Windows® XP, Windows 2000 or Windows Vista® operating system and log in as a user with Administrator permissions.
2. Insert the RP90 Plus E Support CD-ROM in the PC drive.
3. When the opening window is displayed, choose **Install the Printer**.
4. Choose **Install the RP90 Plus E Driver**.
5. On Windows Vista, click **Allow** on the User Account Control Dialog.
6. The Card Printer installation window opens.

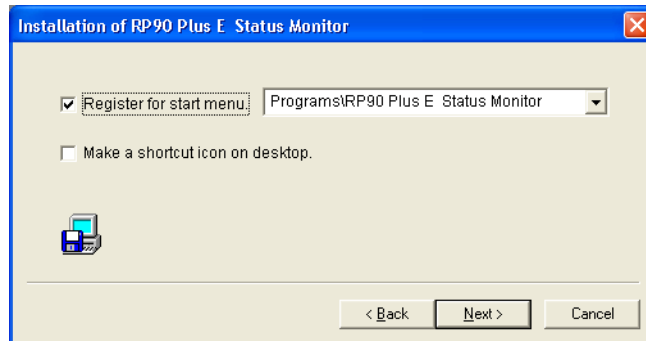


7. Make sure that the following are checked:
  - Install
  - Status Monitor
8. Click **Next**.

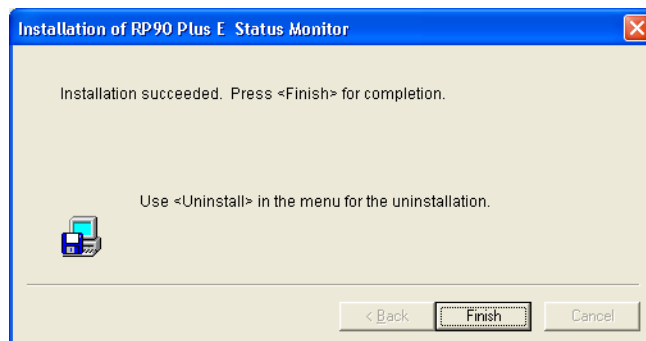
9. Confirm the directory for installation and then click **Next**.



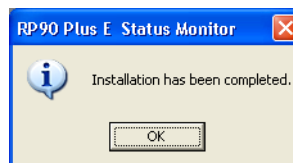
10. Check **Make a shortcut icon on desktop** if you want a desktop icon. For best results, keep **Register for start menu** checked, to allow opening the Status Monitor from the Windows Start menu. Click **Next** to install Status Monitor files.



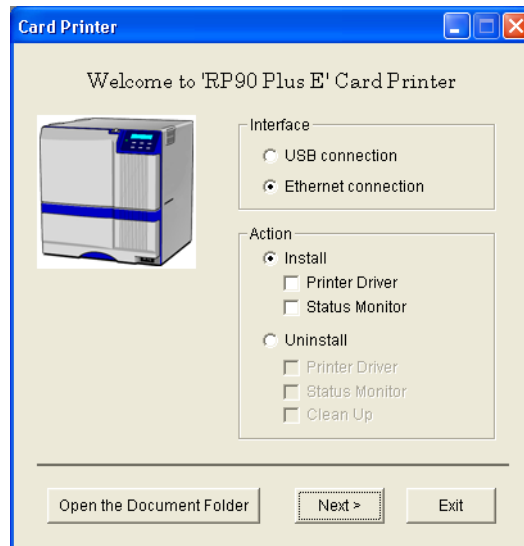
11. When the Status Monitor is installed, click **Finish**.



12. Click **OK** to complete this installation.



13. The PC returns to the Card Printer window. Click **Exit** and remove the CD from the PC's drive.



14. You can open the RP90 Plus E Status Monitor from the Start menu (and from the desktop icon if one is installed). See the *User Guide* for information about using the Status Monitor.

Continue with the following:

- Installing an optional smart card module.
- Installing ID software and the plug-in software.
- Setting up for your card design.

### Tips for Success

- Use the Status Monitor from the host PC only.

## Sharing a Printer on a Network Connection

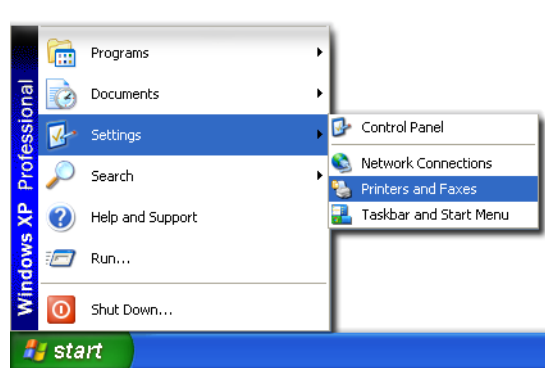
Printer sharing is a Windows-supported feature where a printer installed on a host PC can be used from another PC on the network (often called the client PC).

Before installing a RP90 Plus E printer on a client PC:

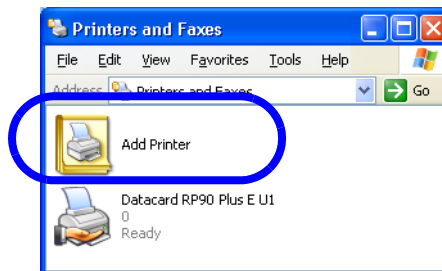
- Log in to the client PC as a user with Administrator permission, which is required for installing printers. The user installing at the client PC must also have authorization at the host PC to install the printer.
- Make sure that the client PC has network access to the host PC (where the printer is installed).
- Make sure that the printer is set for sharing. The icon in the Printers window includes a hand when sharing is enabled. See Windows help for “Printer Sharing” for details on enabling printer sharing.



- Make sure that the printer driver is installed (following the steps that begin on page 9) and working on the host PC.
  - You must know the computer name and workgroup name of the host PC to locate it on the network. See Windows help for “computer name” for details on finding the names.
  - Users at the client PC must be authenticated, usually by logging in, at the host PC for printing to be allowed.
1. On the client PC, open the Printers windows.
    - On Windows XP and Windows 2000, choose **Start > Settings > Printers (and Faxes)** to display the Printers (and Faxes) window.



- On Windows Vista choose **Start > Control Panel > Printers** to display the Printers window.
2. Add a printer.
    - For Windows XP or 2000, choose the **Add Printer** icon (or choose **File > Add Printer** from the menu).

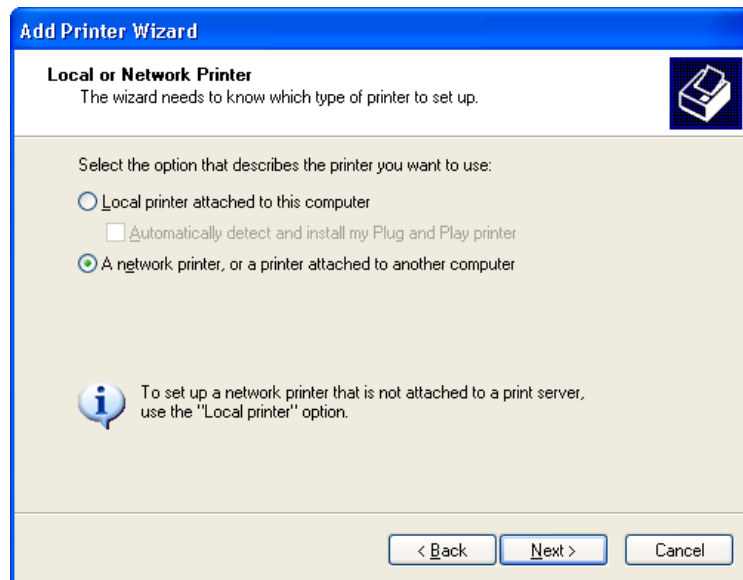


- For Windows Vista, choose **Add a printer** from the toolbar.

3. The Add Printer Wizard appears. Click **Next**.

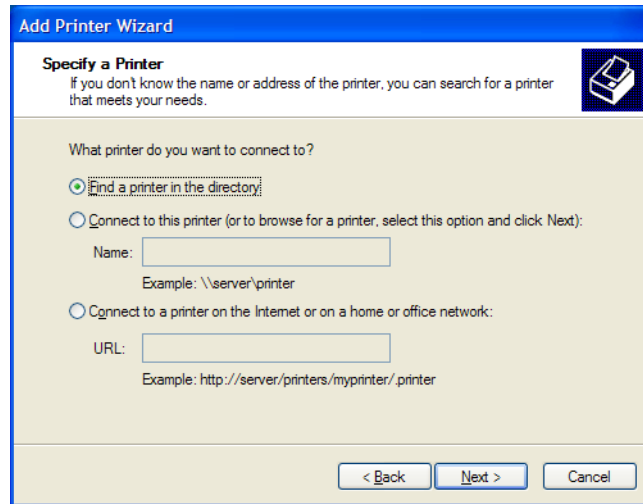


4. For Windows XP or 2000, choose **A network printer, or a printer attached to another computer** and then click **Next**. For Windows Vista, choose **Add a network . . . printer** and then click **Next**.

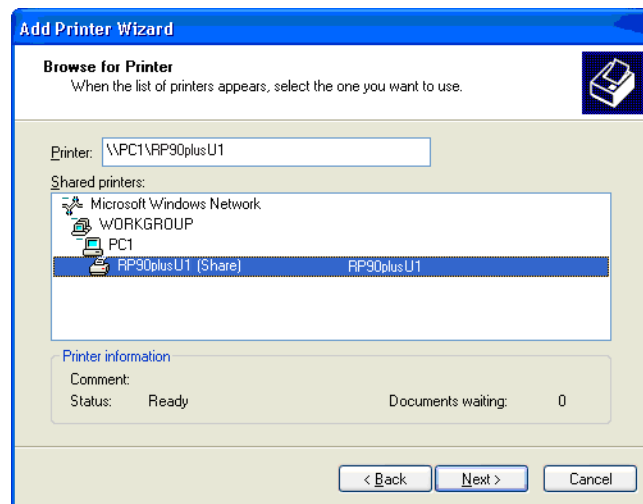


- Log in to the host PC if prompted.

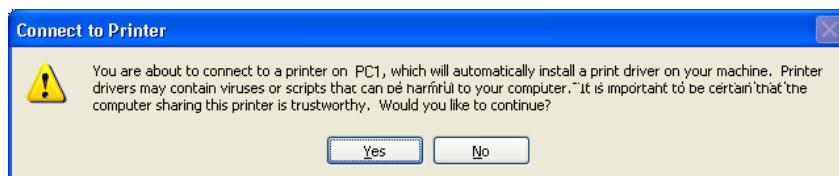
5. Choose **Browse for a printer**, or choose **Connect to this printer...** with the **Name** empty. Click **Next**.



6. Browse the network for the host PC computer name and then locate the shared printer attached to it.
7. Choose **Datacard RP90 Plus E U1 (Shared)** (or other printer name) from the Shared printers list and then click **Next**.

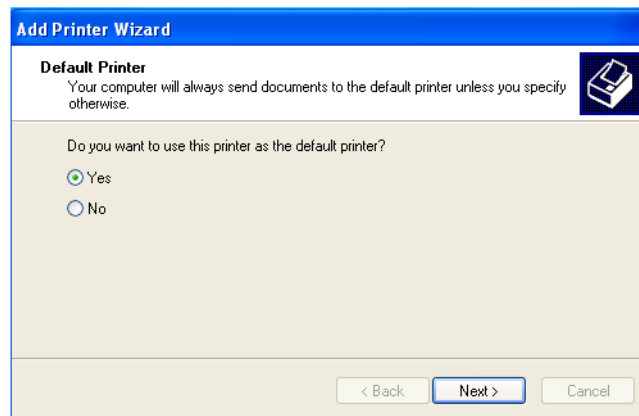


8. An information dialog box appears.
  - On Windows XP and 2000, click **Yes** to continue.

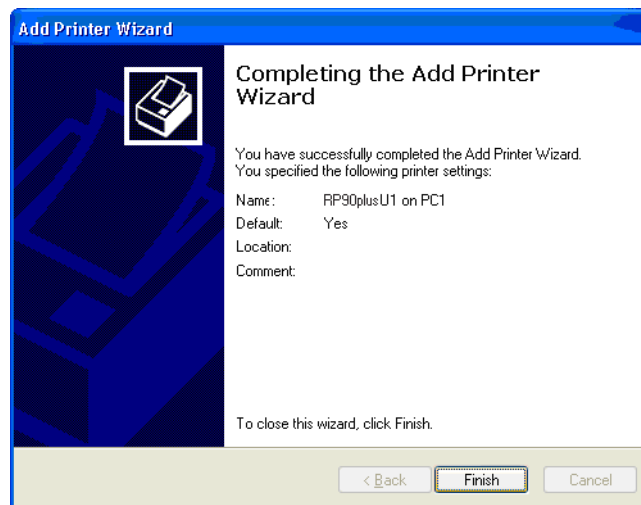


- On Windows Vista, click **Install driver** to continue.

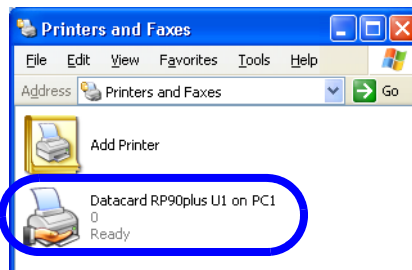
9. On Windows 2000, the wizard displays the following dialog box. Choose **Yes** or **No** (depending on your needs) and then click **Next**.



10. On Windows Vista, the wizard prompts for a printer name. Use the default printer name and click **Next**.
11. Click **Finish** on the “complete” or “successful” screen.




12. Check to make sure that the shared printer is displayed in the “Printers and Faxes” window.



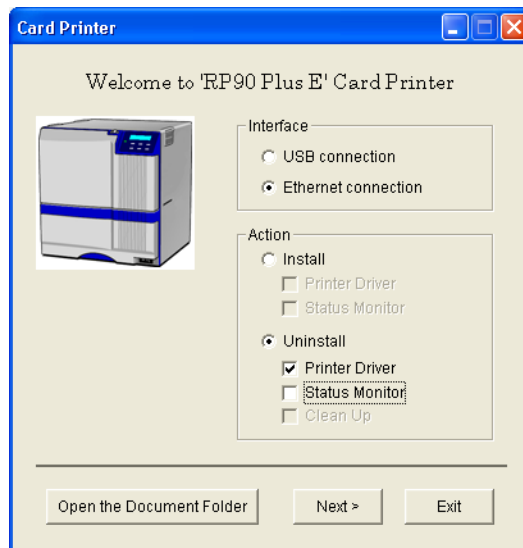
13. Installation of the shared printer on the client PC is complete.

# Removing the Printer Driver

 Close all active programs before removing the printer driver.

For best results, begin with the printer powered on and connected to the PC.

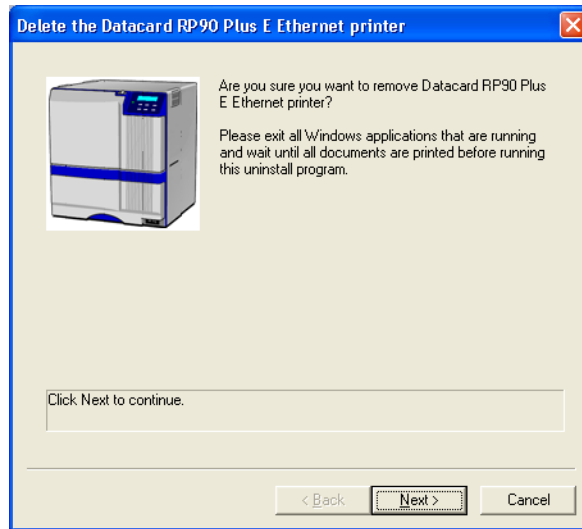
1. With Windows running, insert the RP90 Plus E Support CD-ROM in the PC drive.
2. Choose **Install the RP90 Plus E Driver**.
3. On Windows Vista, the User Account Control dialog appears. Click Allow to continue.
4. The Card Printer installation window opens.



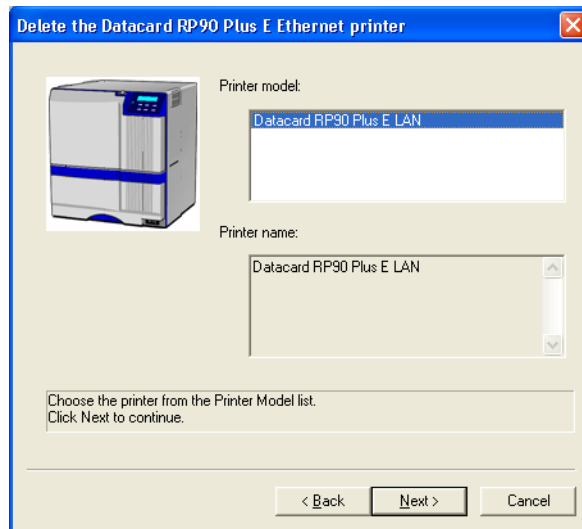
5. Make sure the following are selected, and then click **Next**:
  - The type of connection—USB or network
  - Uninstall
  - Printer Driver

You can uninstall the Status Monitor at the same time by checking **Status Monitor** under **Uninstall**.

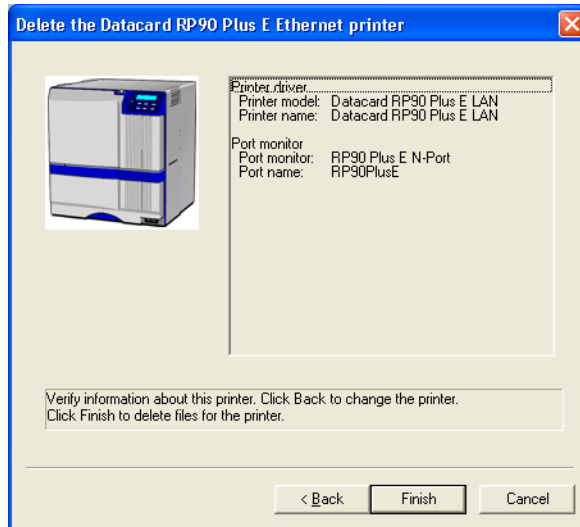
6. The opening dialog box appears. Click **Next**.



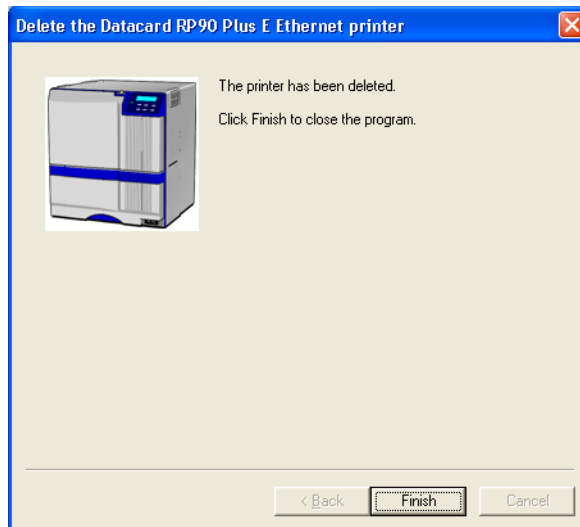
7. Choose the printer from the **Printer model** list and then click **Next**.



8. Review the information on the dialog box that appears.
  - If you need to choose a different printer, click **Back** and return to step 6.
  - If you do not want to remove the printer at this time, click **Cancel**.
  - To remove driver files, click **Finish**.



9. When the following dialog box appears, click **Finish**.



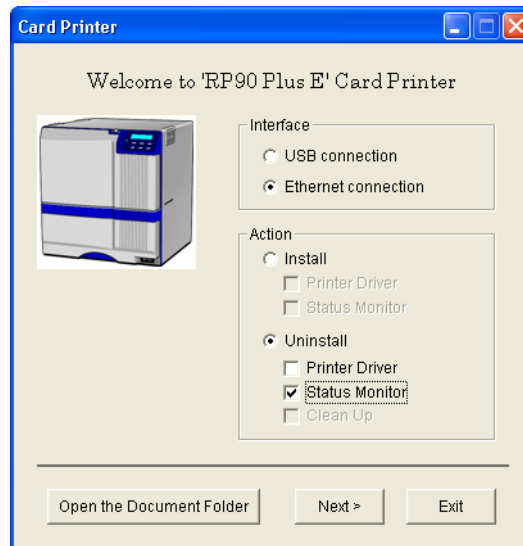
10. The printer driver has been removed.

Continue with removing the Status Monitor it was installed, or restart Windows.

# Removing the Status Monitor

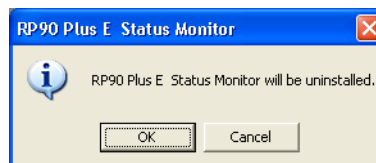
Remove the Status Monitor after removing the driver.

1. Begin with the Card Printer installation window open.

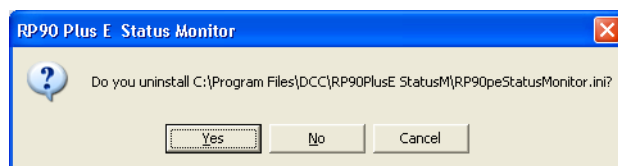


2. Make sure the following are selected, and then click **Next**:

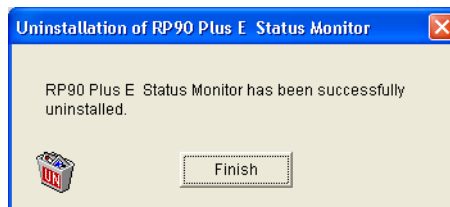
- Uninstall
- Status Monitor



3. Click **OK**.



4. Click **Yes** to continue.



5. Click **Finish**. The Status Monitor shortcuts and files are removed from the PC.
6. Click **Exit** to close the Card Printer window.
7. Restart Windows.

## Updating the Printer Driver

To update to a newer printer driver:

- Remove the existing printer driver, as described in [“Removing the Printer Driver” on page 37](#).
- Restart Windows.
- Install the newer printer driver, as described in [“Installing the Printer Driver” on page 9](#).





# Regulatory Compliance

## Notice for USA (FCC Notice)

This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with this instruction manual, it may interfere with radio communications. This equipment has been tested and found to be within the limits for Class A computing devices, pursuant to Title 47 CFR Part 15 Subpart B of FCC rules, designed to provide reasonable protection against radio interference in a commercial environment. Operation of this equipment in a residential environment may possibly cause interference. In the event of interference, the users, at their own expense, will be required to take whatever measures are necessary to correct the problem.

## Notice for Canada

This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

## Safety

All Datacard products are built to strict safety and reliability specifications in accordance with UL60950-1 and CUL requirements; therefore, safety issues pertaining to operation and repair of Datacard equipment are primarily environmental and human interface.

The following basic safety tips are given to ensure safe installation, operation, and maintenance of Datacard equipment and are not to be considered as comprehensive on matters of safety.

## Safe Environment

- Connect equipment to a grounded facility power source. Do not defeat or bypass the ground lead.
- Place the equipment on a stable surface, and ensure that the floors in the work area are dry and non-slip. Insulated rubber floor mats are preferred.
- Know the location of equipment branch circuit interrupters or circuit breakers and how to turn them on and off in case of emergency.
- Know the location of fire extinguishers and how to use them. Use only ABC type extinguishers on electrical fires.
- Know local procedures for first aid and emergency assistance at the customer facility.
- Use adequate lighting at the equipment.
- Maintain the recommended range of temperature and humidity in equipment area.

- Do not use this product in an environment containing volatile or flammable compounds.

### Safe Human Interface

- Use proper lifting techniques when moving or installing the equipment.
- Use standard electrostatic discharge (ESD) precautions when working on or near electrical circuits.
- Do not defeat or disconnect safety interlocks on covers.

# Datacard Group

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