



IN·F·I·N·E·E·R

DT3000

serial smart card reader

User's Manual

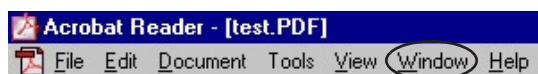
Welcome to the Infineer DT3000 User's Manual. This manual provides easy to follow, step-by-step instructions for connecting the DT3000 reader and installing its associated software.

Contents

- Introduction
- DT3000 Description
- System Requirements
- DT3000 Installation Software
- DT3000 Quick Installation Procedure
- DT3000 Step-by-Step Installation Instructions
- Uninstalling the DT3000 Software
- Infineer Reader Utility
- Technical Support
- Adobe Acrobat Reader
- Warranty/Conditions
- DT3000 FAQ

Navigating The Online User Manual

Acrobat Reader's Bookmarks and Thumbnail viewing options are active in this manual. To enable these options select Window, Show Bookmarks and/or Show Thumbnails.




Acrobat Reader's Navigation buttons may also be used to move through this document.

◀ Return to Contents

◀ Previous Page

▶ Next Page

▶ Last Page

For more information about Infineer, simply click on this link  Visit our Web site @ www.infineer.com found throughout the pages of this document. The Infineer site will open in your default browser (provided you are currently connected to the Internet).

Designed for

Microsoft®
Windows®2000
Professional
Windows®NT
Workstation 4.0
Windows®98

Designed for

Microsoft®
Windows®Me

The DT3000 has passed testing by Microsoft's Windows Hardware Quality Labs (WHQL) for Windows 2000 Professional, 98, ME, and NT Workstation 4.0 operating systems.

"Microsoft, Windows, and the Windows Logo are registered trademarks of Microsoft Corporation in the United States and/or other countries."

**I·N·F·I·N·E·E·R****DT3000**

serial smart card reader

User's Manual

Page 2

Introduction

Infineer designs and markets a line of intelligent, microcontroller-based smart card reader/writers. Electronic commerce, financial services, access control, security, and identification are just a few of the smart card-based applications in which Infineer readers can be used.

Infineer's readers maintain full compliance with Microsoft PC/SC standards and with Windows 95/98, Me, 2000 and NT4 operating systems*. Additionally, they are compliant with most of today's accepted financial/banking (such as EMV) and regulatory standards.

Infineer currently offers three reader/writer models to accommodate most any system:

- DT3000 (Serial)
- DT3500 (USB)
- LT4000 (PCMCIA)

This CD, software, and documentation are specific to the DT3000 model.

DT3000 Description

The DT3000 communicates with your system through a standard RS-232 serial port. Power is supplied to the unit via a PS/2 connection. The PS/2 cable on the DT3000 is a pass-through design which allows the DT3000 and your keyboard to share the same PS/2 port.

System Requirements

- Intel® Pentium® or faster processor
- Microsoft® Windows 9x, 2000, ME or NT4® (service pack 3 or higher)
- CD-ROM drive
- Available RS-232 Serial port
- PS/2 port
- Internet connection (recommended)

DT3000 Installation Software

The Infineer DT3000 installation software was designed to make the installation process seamless—requiring minimal user interaction. The installation software detects your computer's operating system and installs the appropriate drivers and files for that system. The entire DT3000 installation procedure (hardware and software) takes approximately five minutes to complete.

*Compliance with Microsoft PC/SC standards may vary by reader model.



I·N·F·I·N·E·E·R

DT3000

serial smart card reader

User's Manual

Page 3

DT3000 Quick Installation Procedure

This Quick Installation Procedure offers an easy-to-follow path on how to install and connect the DT3000 serial smart card reader. For detailed instructions please see section "DT3000 Step-by-Step Installation Instructions" in this manual.

Installing the DT3000 Software

Before you connect the DT3000 to your PC, it is important that its software be installed on your system. Follow the 5 steps below to install the DT3000 software.

- 1** Start your computer and close all software applications that may be running. Insert the DT3000 Installation CD into your system's CD-ROM drive.
- 2** The CD should autorun and display the DT3000 Welcome Screen. If your CD runs automatically, skip ahead to Step 4. Otherwise, double-click on the My Computer icon on your Desktop.
- 3** Double-click the CD-ROM drive letter and double-click the autorun.exe file on the DT3000 Installation CD.
- 4** Select the "Software" option from the DT3000 Welcome Screen. The software installation process is started. *The DT3000 installer will prompt you to shutdown your system in order to complete the software installation.* When you select Finish at this prompt the installer will automatically shutdown your machine.
- 5** With your computer powered-down, connect the DT3000 to your system. *This connection must be made while the PC is shutdown.* Please see "Connecting the DT3000" on page 4 for further instructions. *Ensure the DT3000 is connected to your PC before restarting your system.*



IN·F·I·N·E·E·R

DT3000

serial smart card reader

User's Manual

Page 4

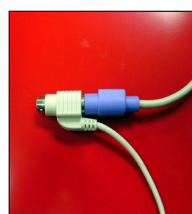
Connecting the DT3000

Now that you've installed the software you're ready to connect the DT3000 to your PC. **The DT3000 is a serial device and must be connected to your computer while it is powered-down.**

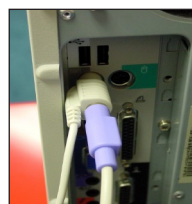
After the software has been installed and your system has been powered-down, ensure the DT3000 is connected to your PC before restarting your system.

To attach the DT3000 to your computer follow the four steps below.

- 1 Connect your keyboard's PS/2 cable to the DT3000's PS/2 connector. See (A) in Figure 1, and Detail A below.
- 2 With your keyboard's PS/2 cable connected, insert the DT3000's PS/2 connector into your system's PS/2 keyboard port. See (B) in Figure 1, and Detail B below.
- 3 Plug the DT3000's serial connector into one of your system's available serial ports.
- 4 Restart your system. The DT3000 smart card reader is now ready to use.



Detail A



Detail B



Detail C

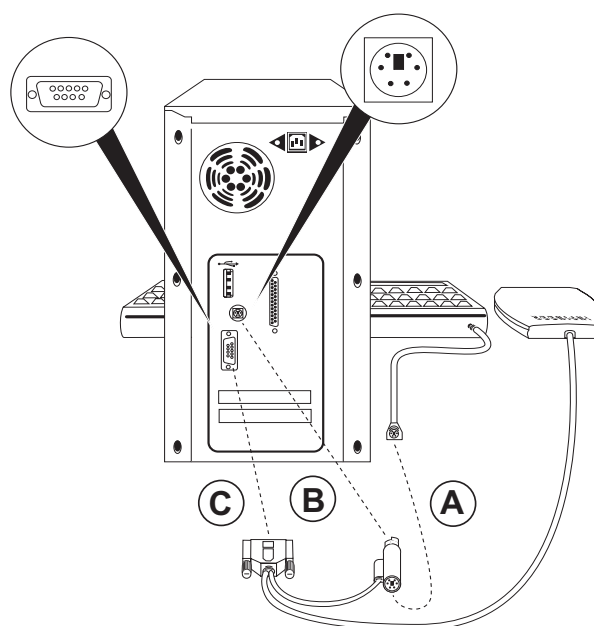


Figure 1 DT3000 to PC Connections



IN·F·I·N·E·E·R

DT3000

serial smart card reader

User's Manual

Page 5

DT3000 Step-by-Step Installation Instructions

The Infineer DT3000 software installer **MUST BE RUN** before physically connecting the DT3000 to your system. Do not connect the DT3000 to your system prior to running the software installer.

- 1 Insert the Infineer DT3000 Installation Software CD into your system's CD-ROM drive. The CD will autorun and a welcome screen (similar to Figure 2) will be displayed on your monitor.
Choose the "Software" option to begin the software installation.



Figure 2 DT3000 CD Welcome Screen

- 2 A screen similar to Figure 3 will appear. This screen provides you with additional information about the DT3000 installation procedure.
Choose the "Install the DT3000 Software" option to continue the DT3000 installation.
To return to the Main Menu choose the "Return to the Main Menu" option.

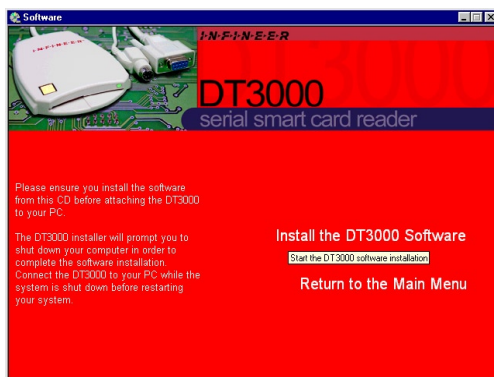


Figure 3 DT3000 Install Software



INFINEER

DT3000

serial smart card reader

User's Manual

Page 6

- 3 If the “Install the DT3000 Software” option was selected in Step 2 the Windows Install Wizard begins. A screen similar to Figure 4 should appear.

**Note - You may be prompted to reboot your system if the Windows Installer service has not already been installed. By doing so, the service will be installed on your system automatically. Do not physically attach the DT3000 to your system at this time.*

Choose the Next button to continue.



Figure 4 DT3000 Installer Wizard

- 4 The End User License Agreement (EULA) appears. See Figure 5. Click the Acept button to agree to the licensing terms.

Choose the Next> button to continue.

**Note - If you choose not to accept the terms of the license agreement the installation will not continue.*

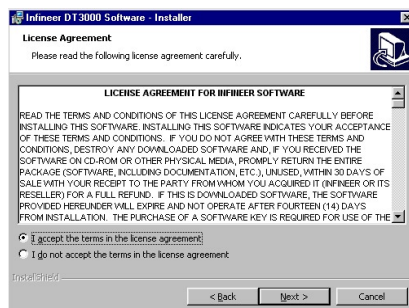


Figure 5 Infineer DT3000 End User License Agreement



IN·FINE·ER

DT3000

serial smart card reader

User's Manual

Page 7

- 5 The installer is ready to install the DT3000 software.
Choose the Install button to continue.

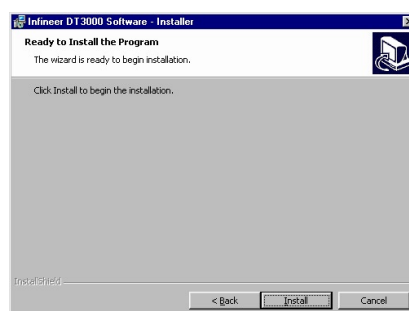


Figure 6 Ready to Install

The Windows Installer is now installing the drivers and components that the DT3000 needs to operate. This may take several seconds to complete.

- 6 The final box, as seen in Figure 7, appears.
Choose the Finish button to complete the software installation.

Note: When you choose the Finish button, the DT3000 Installer will automatically shutdown your system in order to complete the software installation.



Figure 7 Finish Installation

- 7 With your computer powered-down, connect the DT3000 to your system. **This connection must be made while the PC is shutdown.** Please see “Connecting the DT3000” on page 4 for further instructions. **Ensure the DT3000 is connected to your PC before restarting your system.**



IN·F·I·N·E·E·R

DT3000

serial smart card reader

User's Manual

Page 8

Uninstalling the DT3000 Software

The DT3000 software can be uninstalled from the DT3000 CD or from within the Windows Add/Remove Properties box. To uninstall from within Windows see page 10. To uninstall using the CD begin with Step 1 below.

- 1 To uninstall the DT3000 software, choose the "Software" option from the DT3000 Installation CD Welcome Screen (Figure 8).



Figure 8 DT3000 Welcome Screen

- 2 If the installer detects that the DT3000 software is installed on your computer, a screen similar to Figure 9 will appear.
From this screen select the "Uninstall the DT3000 Software" option. The DT3000 software uninstallation process is started.

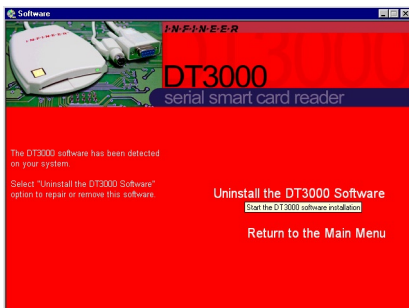


Figure 9 Uninstall the DT3000 Software



IN·F·I·N·E·E·R

DT3000

serial smart card reader

User's Manual

Page 9

- 3 After choosing the “Uninstall the DT3000 Software” option in Step 2, a box similar to Figure 10 appears.

To continue the uninstallation select the Next> button

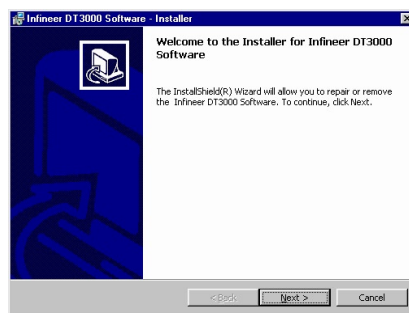


Figure 10 DT3000 Software Uninstallation Wizard

- 4 The Program Maintenance box (Figure 11) appears. Check the Remove option and select the Next> button.

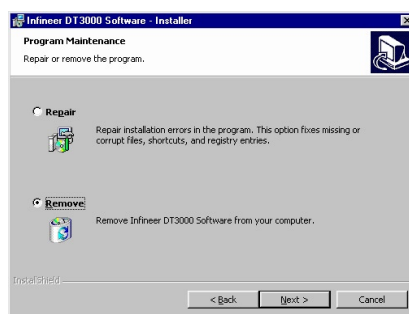


Figure 11 Program Maintenance Box



INFINEER

DT3000

serial smart card reader

User's Manual

Page 10

- 5 A box similar to Figure 12 appears.
Select the Remove option to complete the uninstallation.
The DT3000 software components are now removed from your system.

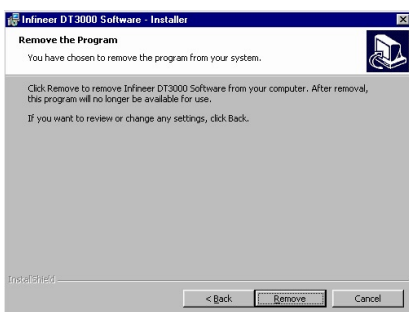


Figure 12 Confirm Removal of the DT3000 Software

- 6 A box similar to Figure 13 appears.
Select the Finish button to complete the uninstallation and exit the installer.



Figure 13 DT3000 Software Uninstallation Complete

Uninstalling the DT3000 Software From Within Windows

The DT3000 Software can be uninstalled by choosing: Start> Settings> Control Panel from your Windows Toolbar.

In the Control Panel box that appears, double-click the Add/Remove Programs icon.

In the Add/Remove Programs Properties box, select "Infineer DT3000" displayed in the scroll-box.

Click the Add/Remove button to uninstall the DT3000 software.



I·N·F·I·N·E·E·R

DT3000

serial smart card reader

User's Manual

Page 11

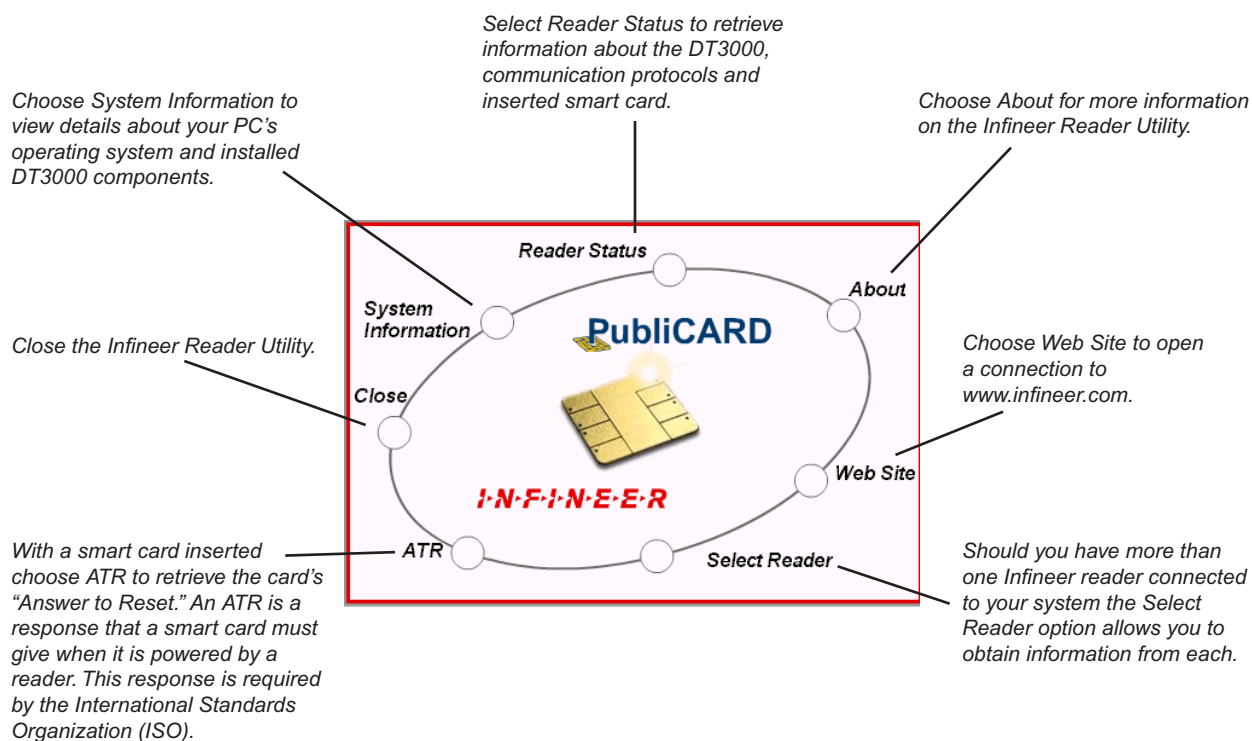
Infineer Reader Utility

The Infineer Reader Utility is automatically installed on your hard drive as part of the DT3000 installation process. This utility is an easy-to-use diagnostic tool for the DT3000. You can open the Infineer Reader Utility from your desktop at:

Start > Programs > Infineer, Inc. > Tools > Infineer Reader Utility

In the unlikely event you experience technical difficulty with the DT3000 reader, Infineer Technical Support may ask that you supply information about the reader from the utility. (See page 12 for Infineer Technical Support contact information.)

The DT3000 software must be installed and the DT3000 reader connected to your PC in order for the Infineer Reader Utility to perform certain functions.





User's Manual

Page 12

Technical Support

Infiniteer offers basic technical support to DT3000 owners. This support is included with your reader purchase at no additional charge. Support IS LIMITED to the installation, connection and functionality of the DT3000 only. Support is not offered for applications developed or sold by companies other than Infiniteer. To obtain support for these applications, please contact the developer of the software or your service provider.

Access to Infiniteer's Technical Support is available through:

	Contact Information	Availability
E-mail	readertechsupport@infiniteer.com	Submit reports 24-hours a day. A response will be provided within two business days.
Phone	727.943.8684	Phone support is available for the first 30 days. Support is provided Monday through Friday, 9am to 5pm EST.
FAX	FAX technical support requests to: Technical Support Team 727.934.5731	Submit reports 24-hours a day. A response will be provided within two business days.
Mail	Mail technical support requests to: Infiniteer, Inc. Attention: Technical Support Team 905 E. Martin Luther King Drive Ste. 400 Tarpon Springs, FL 34689	A response will be provided within two business days after receipt of your request.

Before contacting the Technical Support Team, please make sure that you have read and followed the instructions in this document.



INFINITEER

DT3000

serial smart card reader

User's Manual

Page 13

Adobe® Acrobat® Reader™

Adobe Acrobat Reader allows you to view and print files in Adobe Portable Document Format (PDF) on any major platform. Acrobat Reader (Version 5.0) is available on the Infiniteer DT3000 Installation CD and can be installed by selecting the "Acrobat Reader" option from the CD's main menu.

To download the most recent version of Acrobat Reader from Adobe's Web site, select the Get Acrobat Reader icon below. An active Internet connection is required.

Adobe, Acrobat, and the Acrobat logo are trademarks of Adobe Systems Incorporated.



**INFINEER****DT3000**

serial smart card reader

User's Manual

Page 14

Infineer LIMITED HARDWARE WARRANTY

This Infineer, Inc. (hereinafter INFINEER) limited product warranty extends to the original purchaser only.

INFINEER warrants all electronic hardware products against defects in materials and workmanship for a period of one year from date of sale. If INFINEER receives notice of such defects during the warranty period, INFINEER will, at its option, either repair or replace products that prove to be defective.

Should INFINEER be unable to repair or replace the product within a reasonable amount of time, the customer's alternate remedy shall be a refund of the purchase price upon return of the product to INFINEER. This warranty gives the customer specific legal rights. Other rights, which vary from state to state or province to province, may be available; however, no rights or remedies other than those specifically set forth herein shall be available to the customer unless expressly provided for and required but such state or provincial law.

Exclusions

This limited warranty shall not apply to defects resulting from improper or inadequate maintenance by the customer, customer-supplied software or interfacing, unauthorized modification or misuse, operation outside of the environmental specifications for the product or improper site preparation and maintenance (if applicable).

Warranty Limitations

INFINEER MAKES NO OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THIS PRODUCT. INFINEER SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

In any state or province which does not allow the foregoing disclaimer, any implied warranty of merchantability or fitness for a particular purpose imposed by law in those states or provinces is limited to the one-year duration of the written warranty.

Exclusive Remedies

THE REMEDIES PROVIDED HEREIN ARE THE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES. IN NO EVENT SHALL INFINEER BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON CONTRACT, TORT, OR ANY OTHER LEGAL THEORY.

Infineer LIMITED SOFTWARE WARRANTY

This Infineer, Inc. (hereinafter INFINEER) limited product warranty extends to the original purchaser only.

90-Day Limited SOFTWARE Warranty

Infineer warrants the following for a period of ninety (90) days from your purchase of the product:

- (1) The SOFTWARE will perform substantially the functions described in the documentation provided by INFINEER.
- (2) The media on which the SOFTWARE is furnished will be free from defects in materials and workmanship under normal use.

The warranty period ends and the end of the ninety (90) day period and all warranties by INFINEER regarding the product will at that time terminate. Your sole remedy under the warranty during this ninety (90) day period is that INFINEER will undertake to correct within a reasonable period of time any reported "SOFTWARE Error"

**I·N·F·I·N·E·E·R****DT3000**

serial smart card reader

User's Manual

Page 15

(failure of the SOFTWARE to perform substantially the functions described in the documentation), correct errors in the documentation, and * replace any magnetic media which proves defective in materials or workmanship on an exchange basis without charge. In order to make a claim under this warranty you must return the defective item with your receipt to INFINEER, postage prepaid, within ten (10) days after the warranty period. If INFINEER is unable to replace defective media or if INFINEER is unable to provide corrected SOFTWARE or corrected documentation within a reasonable time, INFINEER will, at its sole and exclusive option, replace the SOFTWARE with a functionally equivalent program at no charge to you.

INFINEER does not warrant that the SOFTWARE will meet your requirements, that operation of the SOFTWARE will be uninterrupted or error-free, or that all SOFTWARE errors will be corrected. INFINEER is not responsible for problems caused by changes in the operating characteristics of computer hardware or computer operating systems, which are made after the release of the SOFTWARE, or for problems in the interaction of the SOFTWARE with non-INFINEER software. INFINEER will have no responsibility to replace or refund the license fee of media damaged by accident, abuse or misapplication.

THE ABOVE WARRANTIES AND REMEDIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON INFRINGEMENT, AND ALL OTHER REMEDIES. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY INFINEER, ITS EMPLOYEES, DISTRIBUTORS, DEALERS OR AGENTS SHALL INCREASE THE SCOPE OF THE ABOVE WARRANTIES OR CREATE ANY NEW WARRANTIES.

SOME STATES DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. IN THAT EVENT, ANY IMPLIED WARRANTIES ARE LIMITED IN DURATION TO NINETY (90) DAYS FROM THE DATE OF DELIVERY OF THE SOFTWARE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

Limitation of Remedies

REGARDLESS OF WHETHER ANY REMEDY SET FORTH HEREIN FAILS OF ITS ESSENTIAL PURPOSE, IN NO EVENT WILL INFINEER BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INDIRECT OR SIMILAR DAMAGES, INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF DATA OR BUSINESS INFORMATION (OR OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OF OR INABILITY TO USE THE SOFTWARE OR ANY DATA SUPPLIED THEREWITH EVEN IF INFINEER OR ANYONE ELSE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY OTHER PARTY.

SOME STATES DO NOT ALLOW THE LIMITATION OR EXCLUSION OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

IN NO CASE SHALL INFINEER'S LIABILITY EXCEED THE PURCHASE PRICE FOR THE PRODUCT.

**I·N·F·I·N·E·E·R****DT3000**

serial smart card reader

User's Manual

Page 16

DT3000 Frequently Asked Questions

The DT3000 is PC/SC certified. What does this mean?

The DT3000 has been tested and certified by Microsoft's Window Hardware Quality Labs for Windows 98, ME, 2000, and NT 4.0 operating systems.

The PC/SC compatible drivers provided for the DT3000 are based on Microsoft's implementation of the PC/SC Workgroup's specifications. The PC/SC Workgroup (Personal Computer/Smart Card) was created to address interoperability issues in personal computer/smart card applications. Infineer is an Associate Member of the PC/SC Workgroup.

What types of cards can the DT3000 support?

The DT3000 supports both asynchronous and selected synchronous cards.

There are two PS/2 ports on my computer. Does it matter which one I connect the DT3000 to?

Many PCs will have two PS/2 ports; one for the keyboard and one for the mouse. You can connect the DT3000 to either of these PS/2 ports. The pass-through design of the DT3000 cable allows the unit to share a PS/2 port with a device such as a keyboard or a mouse.

How do I know which Infineer device drivers to install on my system?

The software installer on the DT3000 Installation CD handles this for you. The software installer is launched when you choose the "Software" option on the CD's Welcome Screen and then "Install the DT3000 Software" option on the subsequent screen. The installer automatically detects your system's operating system and installs the appropriate drivers. The Infineer DT3000 software must be installed on your system before you connect the reader to your PC.

The DT3000's LED does not light when I insert a card. Why is that?

More often than not this occurs when the DT3000's PS/2 cable is not properly connected. For the DT3000 to function properly, the unit must be connected to your system's PS/2 and COM ports.

I've read this entire manual and I'm still experiencing difficulties with the DT3000. Who do I contact for assistance?

Please see page 12 in this User's Manual for a listing of technical support contacts.