



User Guide

HP USB Smart Card Keyboard



The HP USB Smart Card Keyboard is a full-sized keyboard with a built-in smart card reader for computer security. The HP USB Smart Card Keyboard uses smart card technology to prevent unauthorized access to computers and networks. This feature boosts security, simplifies access procedures, and reduces the costs associated with managing networks. Equally important, the HP USB Smart Card Keyboard takes advantage of digital signatures and certificates to secure the environment for transactions performed on both public and private networks.

The HP USB Smart Card Keyboard is compatible with all smart cards that comply with ISO standard 7816. Refer to the [“Identifying Compatible Smart Cards”](#) section in this guide for a list of compatible smart cards.

HP offers security enhancements to the Smart Card Keyboard with HP ProtectTools Security Software. To purchase this software and get the latest security solutions as well as smart card updates, go to www.hp.com or contact your HP representative.

The HP USB Smart Card Keyboard supports several HP Business PC, Workstation, and Thin Client models. Consult your computer documentation or product information at www.hp.com to determine if the HP USB Smart Card Keyboard works with your model.

Supported Operating Systems

The keyboard's smart card reader requires one of the following operating systems:

- Microsoft Windows Vista
- Microsoft Windows XP Professional
- Microsoft Windows XP Professional x64 Edition
- Microsoft Windows XP Home
- Microsoft Windows 2000 Professional
- Microsoft Windows CE .NET 4.2 and 5.0*
- Microsoft Windows XPe*
- Linux Red Hat Enterprise 3 (based on kernel 2.4.20) and 4, (based on kernel 2.6.11); kernel 2.4.25 (gcc 3.3.2 and glibc 2.3.2) support for Thin Clients*

*Qualified on x86, Transmeta, VIA, and AMD Thin Client processors.

Installation Steps

1. Connect the USB Keyboard Cable

Plug the keyboard's USB cable into a USB port on the computer.

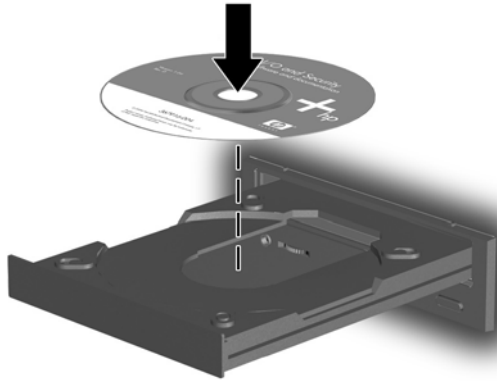


If the **Found New Hardware Wizard** pops up, click the **Cancel** button.



2. Install the Smart Card Reader Drivers

1. Insert the *I/O and Security Software and Documentation CD* into the CD or DVD drive on the computer. The CD will run automatically.



2. Read the license agreement then click the **Accept** button on the End User License Agreement window. The main menu will be displayed.
3. Locate the drivers for your operating system on the *I/O and Security Software and Documentation CD*:
 - a. For Microsoft Windows Vista, Microsoft Windows XP Professional, Microsoft Windows XP Professional x64 Edition, Microsoft Windows XP Home, Microsoft Windows 2000 Professional, and Microsoft Windows XPe:

On the main menu, in the **SmartCard Keyboard** category/description, click the **Microsoft Windows Vista/XP/W2K/XPe Smartcard Drivers** link in the **Driver Installation** column. Follow the on-screen instructions to install the drivers.



For the following operating systems, close the main menu and go directly to the paths listed below using the explorer view for your operating system.

- b. For Microsoft Windows CE .NET 4.2 and 5.0, go to **D:\SmartCard_Keyboard\CE** (where D: is the drive letter of the computer's optical drive) and install the drivers according to the operating system manual's driver installation instructions.
- c. For Linux-based Workstations, go to **D:\SmartCard_Keyboard\Linux\Workstation** (where D: is the drive letter of the computer's optical drive) and install the drivers according to the operating system manual's driver installation instructions.

- d. For Linux-based Thin Clients, go to **D:\SmartCard_Keyboard\Linux\Thin_Client** (where D: is the drive letter of the computer's optical drive) and install the drivers according to the operating system manual's driver installation instructions.



Driver installation on Thin Clients may require assistance from your network administrator or the usage of Altiris.

Identifying Compatible Software

The following software is vendor-tested as compatible with the HP USB SmartCard Keyboard.

The following software is qualified and approved by Hewlett-Packard Company. HP recommends that you use the HP ProtectTools Security Software to set up and manage the HP USB Smart Card Keyboard.

HP www.hp.com	HP ProtectTools Security Software (part number RG984AA)
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The following software is qualified and approved by third-party vendors.

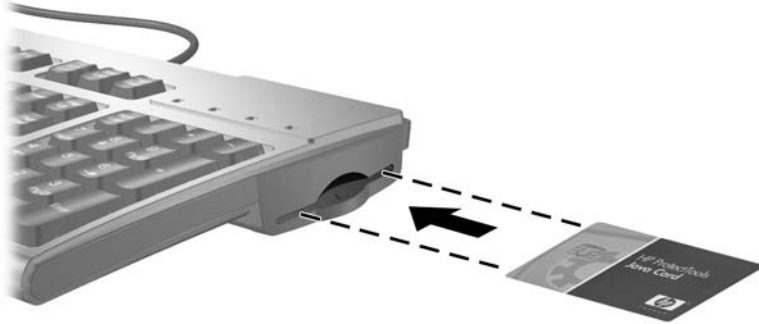
IdentiPHI www.identiphi.net	IdentiPHI Enterprise (Various Versions)
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Bioscript www.bioscript.com	VeriSoft Access Manager
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Softex www.softexinc.com	OmniPass
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3. Insert a Smart Card

Insert a compatible smart card into the smart card reader slot face up with the gold contact pad on the smart card closest to the keyboard. The smart card indicator light briefly illuminates when the smart card is fully seated and detected by the reader.



The keyboard's smart card LED turns solid amber when the smart card is in secure PIN mode. While the LED is solid amber, the keyboard will stop working until the secure transaction is complete to protect the smart card PIN code from being intercepted.

Identifying Compatible Smart Cards

The following smart cards are vendor-tested as compatible with the keyboard's smart card reader.

The following asynchronous smart card (ISO 7816 compliant) is qualified and approved by Hewlett-Packard Company.

HP	HP ProtectTools Java Card - 10 units (part number EL348AA - check www.hp.com for periodic updates)
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The following asynchronous smart cards (ISO 7816 compliant) are qualified and approved by SCM Microsystems, Inc.

American Express	Amex Blue
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Axalto (Schlumberger)	Cryptoflex 8K Cryptoflex 16K Cryptoflex 32K Cryptoflex 32K e-gate Cyberflex Access 64K Cyberflex Access 32K Cyberflex 32K e-gate Cyberflex 64K Cyberflex Palmera Payflex-S Payflex 1K Payflex 2K Payflex 4K Payflex 8K Prismera US DoD CAC
CardLogix	CLXSU004KK4 CLXSU008KK5
Datakey	Model 300 Model 330
De La Rue	VisaCash
Gemplus	GemExpresso GKK32k GemClub Memo GemClub Micro GemXplore GemSafe
Infineon	SLE66C322P
Oberthur	CosmopolIC v4 CosmopolIC v4.1 ID-One Cosmo GalactIC v2.1 US DoD CAC
SAFLINK (Litronic)	Forté
Sharp	Java Card

The following synchronous smart cards (memory cards) are qualified and approved by SCM Microsystems, Inc.

Atmel AT24C01ASC
AT24C02SC
AT24C04SC
AT24C08SC
AT24C16SC
AT24C32SC
AT24C64SC
AT24C128SC
AT24C256SC
AT24C512SC
AT88SC153
AT88SC1608

Axalto (Schlumberger) Primeflex Store 8K
Primeflex Store 2K

Infineon SLE4406
SLE4406E
SLE4406E SE
SLE4418
SLE4428
SLE4432
SLE4436E
SLE4442
SLE5536

ISSI IS23SC4418
IS23SC4428

STMicroelectronics 14C02

Telefonkarte SLE4406
SLE4436
SLE5536

Xicor X24026

Troubleshooting

Problem	Cause	Solution
F10 Setup shows a smart card when the HP ProtectTools Security Software is not installed or has BIOS enabled.	Smart card BIOS support was previously enabled then removed.	<ul style="list-style-type: none">• Enter F10 Setup and manually disable the smart card feature.• Or, re-enable BIOS support via the HP ProtectTools Security Software.• Or, leave the F10 Setup option enabled; for future BIOS enable with HP ProtectTools Security Software.
The smart card LED occasionally turns solid amber.	A secure transaction is taking place.	The smart card reader LED blinks amber when data is being read by the reader. However, when a secure transaction is enabled, the LED becomes solid amber.
The smart card LED is solid amber and the keyboard is not working.	The smart card reader is in secure PIN mode.	Wait until the secure transaction is complete and the LED turns off.

Regulatory Notices

This product has been tested and found to comply with the limits for a Class B digital device of the FCC Rules. Refer to the documentation that came with the computer for additional regulatory information regarding this product.

Technical Support

Comprehensive technical support is available online at www.hp.com/support.

You can also call HP for technical support. Refer to the documentation that came with the computer for support telephone numbers.

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