

CSB4-U

USB driver installation

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CSB4 – USB DRIVER INSTALLATION

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CSB4 – USB DRIVER INSTALLATION

TABLE OF CONTENT

1.	INTRODUCTION 4
1.1. 1.2. 1.3.	COVERED PRODUCTS4ALTERNATE OPERATING SYSTEMS4WHERE CAN I FIND THE SOFTWARE ?5
2.	USB DRIVER INSTALLATION6
2.1. 2.2.	Read me first6Run SDD100 Setup Wizard6
3.	CONNECT THE DEVICE ON THE COMPUTER9
3.1. 3.2. 3.3.	FIRST CONNECTION ON THE COMPUTER
3.4.	TROUBLESHOOTING 12

CSB4 – USB DRIVER INSTALLATION

1. INTRODUCTION

This manual explains how to install SpringCard USB driver for CSB4-U, and compliant devices.

USB driver is shipped in a software package, referenced SDD100, together with a diagnostic application.

1.1. COVERED PRODUCTS

SpringCard CSB4-U is an USB contactless reader/writer. Its core is the SpringCard K531 contactless module. A dedicated FTDI chip implements the USB-to-serial functionality.

This manual also covers all SpringCard products using the same FTDI chip, namely :

- SpringCard CSB5-U: USB contactless reader/writer with embedded smartcards and SIM/SAM readers, and optional biometric (fingerprint) capabilities,
- SpringCard INT-USB-TLL and INT-USB-ITL : interfaces for K531 and K632 modules, IWM-K531 and IWM-K632 proximity readers, and more.

This USB driver targets Microsoft Windows 2000/XP/Vista only.

1.2. ALTERNATE OPERATING SYSTEMS

On most operating systems, developers can use the K531 SDK to build applications for the CSB or other K531-based products.

Generally speaking, the FTDI chip will be seen as a Virtual Communication Port (VCP), and the SpringCard product will be accessed through serial communication.

Please refer to K531 development related documentations for more information.

Linux : kernel 2.6 includes the driver for the FDTI chip. SpringCard products using this chip are seen as a VCP, with the name /dev/ttyUSBxx. Developers can use the K531 SDK to build applications using the CSB4-U through this channel.

FDTI provides also drivers for Windows CE and Mac OS.

VCP page on FTDI's web site : http://www.ftdichip.com/Drivers/VCP.htm



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CSB4 – USB DRIVER INSTALLATION

1.3. Where can I find the software?

The CSB4 USB driver is available online at :

http://www.springcard.com/download/csb4.html



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Hame Download CSB4

Download Center CSB4 - Desktop contactless reader/writer

Datasheets and product information

		Previous versions	are hidden [Show]
File name	Target	Version	Date	Size
CSB4, K531, K632 : Firmware upgrade procedure				
🖄 fgf984p-aa.pdf		aa	05/03/2009	595 KB
CSB4 product information sheet				
⊉pfl8t6p-ab.pdf		ab	31/10/2008	254 KB
cuments and software for the end-user				
		Previous versions	•	-
File name	Target	Previous versions Version	are hidden [Date	S how] Size
	Target		•	-
File name CSB4 Family : legacy USB driver installation	Target	Version	Date	Size
File name CSB4 Family : legacy USB driver installation Øpmi8f1p-aa.pdf		Version aa	Date	Size 354 kB

NO TE . This is only a re-packaging of FTDI's Combined Driver Model (CDH v2) with SpringCard's product IDs

QuickStart for CSB classic and legacy

Download the file labelled "CSB4 Family : Legacy USB driver" (sdd100).

CSB4 – USB DRIVER INSTALLATION

2. USB DRIVER INSTALLATION

2.1. READ ME FIRST

Please read following warning before connecting the CSB4-U (or compliant product) to your computer :

Do not connect the device now !

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The USB driver must be installed before connecting the device to your computer.

Connecting the device before actual driver installation may lead to a bogus configuration, as Windows may download and install automatically a signed driver, instead of using the expected one.

Disconnect Windows XP SP 1 from the Internet during this procedure

Some users have been experiencing problems installing this driver under Windows XP with Service Pack 1.



This is due to Windows XP Update trying to automatically install a certified replacement driver, instead of the SpringCard provided driver.

This problem can be overcome by temporarily disconnecting from the Internet while installing the driver and when connecting the device to the computer for the first time.

Tip : don't forget to download the driver before disconnecting from the Internet.

Use a direct USB connection



Do not connect it through any kind of USB hub or other adapter.

2.2. RUN SDD100 SETUP WIZARD

- Log-on to your computer with administrative privileges (Administrator account).
- Run the downloaded installation program.

CSB4 – USB DRIVER INSTALLATION

🖽 Vista

File Download - Security Warning	File Download - Security Warning
Do you want to run or save this file?	Do you want to run or save this file?
Name: sdd100-aa.exe Type: Application, 1,02MB From: www.pro-active.fr Run Save Cancel	Name: sdd100-aa.exe Type: Application, 1,02 MB From: www.pro-active.fr Run Save Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?	While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source do not run or save this software. <u>What's the risk?</u>

If prompted by a security warning (see below), please accept driver installation anyway by clicking on "Run".

This warning appears only because the package is not digitally signed.

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Vista : the User Account Control system asks you to confirm you want to run the program. Click "Allow".

🖽 Vista

User Account Control
An unidentified program wants access to your computer
Don't run the program unless you know where it's from or you've used it before.
sdd100-aa[1].exe Unidentified Publisher
Cancel I don't know where this program is from or what it's for.
Allow I trust this program. I know where it's from or I've used it before.
User Account Control helps stop unauthorized changes to your computer.

CSB4 – USB DRIVER INSTALLATION

Now follow the installation program, clicking "Next" at each step.

Depending on your security settings, you may be asked twice to confirm driver installation (see below). Please accept driver installation by clicking "Install anyway" or "Continue anyway".

This warning appears only because Microsoft WHQL has not signed the installation package, but the FTDI driver it contains is actually WHQL-certified.

田 XP



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Windows Security	Software Installation
 Windows can't verify the publisher of this driver software Don't install this driver software You should check your manufacturer's website for updated driver software for your device. Install this driver software anyway Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or stee information. See details 	The software you are installing has not passed Windows I testing to verify its compatibility with Windows XP. (<u>Tell methis testing is important</u> .) Continuing your installation of this software may or destabilize the correct operation of your syste either immediately or in the future. Microsoft strorecommends that you stop this installation now a contact the software vendor for software that he passed Windows Logo testing.
	Continue Anyway STOP Inst

Once the driver has been successfully installed, click "Finish" in the last screen.

CSB4 – USB DRIVER INSTALLATION

3. CONNECT THE DEVICE ON THE COMPUTER

3.1. FIRST CONNECTION ON THE COMPUTER



- Plug the CSB4-U connector into a free USB port.
- In most cases, Windows will automatically activate the device. Sometimes, the "Found new hardware wizard" will be launched instead. Please follow the procedure below, depending on the operating system version :

3.1.1. Windows 2000

If prompted by the "Found new hardware wizard",

- Select "Search for a suitable driver for my device",
- Check the "Specify a location" box,
- When the prompted "Copy manufacturer's files from", browse to the driver installation directory (namely C:\Program Files\SpringCard\SDD100),
- Confirm your choice,
- The device is now ready for use.

3.1.2. Windows Vista and Windows XP

If prompted by the "Found new hardware wizard",

- If prompted for connection to Windows Update, select "Do not connect to Windows Update this time",
- Select "Install from a list or specific location",
- Select "Search the best driver in the locations", check the "include this location in the search" box, and browse to the driver installation directory (namely C:\Program Files\SpringCard\SDD100),
- If prompted, please accept driver installation by clicking "Install anyway" or "Continue anyway" :

CSB4 – USB DRIVER INSTALLATION

I Vista

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Windows Security	Software Installation
 Windows can't verify the publisher of this driver software Don't install this driver software You should check your manufacturer's website for updated driver software for your device. Install this driver software anyway Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information. See details 	The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

The device is now ready for use.

3.2. VERIFY DRIVER INSTALLATION

3.2.1. Windows Vista

- In the "Start menu", click on "Control Panel"
- Click on "Device manager"
- Vou will be prompt by User Account Control ; click on "Continue"
- In the menu, check that the selected View is "Device by connection ".
- In "PCI bus" section, look for a "SpringCard CSB Contactless coupler".
- Check that a serial communication port has been assigned to the product.

3.2.2. Windows XP

- In the "Start menu", select "Settings" "Control Panel"
- Click on "System "
- Choose "Hardware"
- Click on "Device Manager".
- In "Ports (COM & LPT)", look for a "SpringCard CSB Contactless coupler".

CSB4 – USB DRIVER INSTALLATION

3.3. TEST DEVICE COMMUNICATION

- In the "Start menu", select "SpringCard" "SDD100" "CSBDiag"
- Alternatively, you may launch CSBDiag.exe located in folder C:\Program Files\SpringCard\Drivers\SDD100

SpringCard CSBDiag		
SpringProx API Diagnostic Util This applet allows you to configure and chec using SpringProx API and the CSB (or compl	lity ck the communication between software	
	SpringProx API release info	
	Location of springprox.dll :	
	C:\Program Files\SpringCard\Drivers\SDD100\springprox.dll	
	Version :	
	SPRINGCARD SPRINGPROX API 1.49 [24]	
	CSB device assignment	
		communication
	USB direct access (FTDI D2XX driver)	commanication
	Serial communication port :	Other :
	CDM10: BT Port	
	Debug File path :	
	C:\Temp\springprox.log Activ	vate Debug File
	CSB device data	
	Product name and version : Features :	
	Chipset info : Chipset ID :	
	Test CSB with contactless cards	actless polling
CSBDiag v3.00 - 18/12/2008		Consel
Copyright SpringCard 2004-2008 www.springc	Card.com	Cancel
Failed		

- Check "USB direct access (FTDI D2XX driver)" and click "Test communication". If successful, skip next step.
- If the first test failed, check "Serial communication port", and choose the appropriate COM port (as identified in device manager, see § 3.2). Click "test communication".
- Once connected, click "Contactless polling". Put one ISO 14443 compliant card (A or B) on the reader to verify that the card is detected properly.
- Terminate the program by clicking "OK".

CSB4 – USB DRIVER INSTALLATION

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3.4. TROUBLESHOOTING

If the test described in § 3.3 is unsuccessful, please observe the following procedure :

- Un-plug the CSB, restart the computer, plug the CSB, and perform the test again,
- Un-plug the CSB, uninstall the driver ("Control panel" "Add remove program"), install the driver again, and restart the computer before doing the test again.

If still unsuccessful,

- Launch "Device manager", locate the device entry in the tree,
- Right-click on the device and click "Properties",
- Choose "Driver update" or "Change driver" in the "Driver" tab of the dialog box,
- Force a manual installation of the driver from the installation folder :
- C:\Program Files\SpringCard\Drivers\SDD100

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