## IRONKEY User Guide



IronKey Enterprise Secure Flash Drive



Thank you for your interest in IronKey.

IronKey is committed to creating and developing the best security technologies and making them simple-to-use, affordable, and available to everyone. Years of research and millions of dollars of development have gone into bringing this technology to you in the IronKey.

For a quick product overview, you can also view our online demos at *https://www.ironkey.com/demo*.

We are very open to user feedback and would greatly appreciate hearing about your comments, suggestions, and experiences with the IronKey.

Standard Feedback: feedback@ironkey.com

Anonymous Feedback: https://www.ironkey.com/feedback

User Forum: https://forum.ironkey.com



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## What is it?

## Meet the IronKey

The IronKey Enterprise Secure Flash Drive, designed to be the world's most secure USB flash drive, protects your data, passwords, and Internet privacy with some of today's most advanced security technologies. Your IronKey includes a suite of security software and online services, many of which are described in this User's Guide. Depending on how your System Administrator has configured your IronKey, some of these features may not be included on your IronKey.



## **Core Features**

#### Hardware-Encrypted Flash Drive

Your IronKey can safely store 1, 2, 4 or 8 gigabytes of documents, applications, files and other data. The IronKey Cryptochip inside the IronKey protects your data to the same level as highly classified government information and cannot be disabled or accidently turned off.

#### **Self-Destruct Sequence**

If the IronKey Cryptochip detects any physical tampering by a hacker, it will self-destruct. Similarly, after too many consecutive invalid password attempts your IronKey will self-destruct using flash-trash technology.

#### **Anti-Malware Protection**

Your IronKey helps protect you from many of the latest malware threats targeting USB flash drives. It will prevent autorun execution of unapproved programs, can be unlocked in a Read-Only Mode, and can scan and clean malware from your IronKey with the IronKey Malware Scanner.

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#### Simple Device Management

Your IronKey includes the IronKey Control Panel, a central launchpad for launching your applications, editing your preferences, and safely locking your IronKey.

#### Portable & Cross-Platform Data Access

The IronKey Unlocker allows you to access your encrypted files on Windows 2000, XP, Vista, Mac OS X and numerous distributions of Linux.

#### Secure Local Backup & Data Recovery

Securely back up the data on your IronKey using IronKey's Secure Backup software. It allows you to recover your data to a new IronKey in case your IronKey is ever lost or stolen, or synchronize data between IronKeys.

#### Stealth Browsing Technology

Surf the Web safely and privately through almost any network, even across unsecured wireless hotspots, with IronKey's Secure Sessions Service. It can be easily toggled through the onboard Mozilla Firefox web browser.

#### Self-Learning Password Management

Securely store and backup all your online passwords as you go with the IronKey Password Manager. It allows you to automatically log into your online accounts to avoid keylogging spyware and phishing attacks.

#### **Online Security Vault**

If your IronKey is ever lost or stolen, you can easily restore your online passwords from an encrypted online backup.

#### Waterproof & Tamper-Resistent

The IronKey was designed to survive the extremes. The IronKey's rugged metal casing is injected with an epoxy compound that makes it not only tamper-resistent, but waterproof to military specifications (*MIL-STD-810F*).



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## **Device** Diagrams

The IronKey has been designed from the ground up with security in mind. A combination of advanced security technologies are used to ensure maximum protection of your data. Additionally, the IronKey has been designed to be physically secure, to prevent hardware-level attacks and tampering, as well as to make the device rugged and long-lasting. You can rest assured that your data is secured when you carry an IronKey.



This IronKey Cryptochip is hardened against physical attacks such as power attacks and bus sniffing. It is physically impossible to tamper with its protected data or reset the password counter. If the Cryptochip detects a physical attack from a hacker, it will destroy the encryption keys, making the stored encrypted files inaccessible.



## **Technical & Security Notes**

We are endeavoring to be very open about the security architecture and technology that we use in designing and building the IronKey devices and online services. There is no hocus-pocus or handwaving here. We use established cryptographic algorithms, we develop threat models, and we perform security analyses (internal and third party) of our systems all the way through design, development and deployment. Your IronKey is FIPS 140-2 Level 2 validated (Certificate #938).

#### **IRONKEY DEVICE SECURITY**

#### **Data Encryption Keys**

- >>> AES keys generated by onboard Random Number Generator (FIPS 186-2)
- » AES keys generated by user at initialization time and encrypted
- » AES keys never leave the hardware and are not stored in NAND flash

#### Self-Destruct Data Protection

- » Secure volume does not mount until password is verified in hardware
- » Password try-counter implemented in tamper-resistent hardware
- » Once password try-count is exceeded, all data is erased by hardware

#### **Additional Security Features**

- >>> USB command channel encryption to protect device communications
- >>> Firmware and software securely updateable over the Internet
- » Updates verified by digital signatures in hardware

#### **Physically Secure**

- >>> Solid, rugged metal case
- >>> Encryption keys stored in the tamper-resistent IronKey Cryptochip
- » All chips are protected by epoxy-based potting compound
- » Exceeds military waterproof standards (MIL-STD-810F)

#### **Device Password Protection**

The device password is hashed using salted SHA-256 before being transmitted to the IronKey Secure Flash Drive over a secure and unique USB channel. It is stored in an extremely inaccessible location in the protected hardware. The hashed password is validated in hardware (there is no "get-Password" function that can retrieve the hashed password), and only after the password is validated is the AES encryption key unlocked. The password try-counter is also implemented in hardware to prevent memory rewind attacks. Typing your password incorrectly too many times initiates a patent-pending "flash-trash" self-destruct sequence, which is run in hardware rather than using software, ensuring the ultimate protection for your data.



#### **Password Manager Protection**

The IronKey Password Manager and *my.ironkey.com* work together, giving you the ability to back up your online passwords to your Online Security Vault. First, you must unlock your IronKey device, which requires two-factor authentication. Your passwords are securely stored in a hidden hardware-encrypted area inside the device (not in the file system), being first locally encrypted with 256-bit AES, using randomly generated keys encrypted with a SHA-256 hash of your device password. All of this data is then doubly encrypted with 128-bit AES hardware encryption. This is the strongest password protection we have ever seen in the industry.

When you back up your passwords online, IronKey performs a complicated public key cryptography handshake with IronKey's services using RSA 2048-bit keys. After successful authentication, your encrypted block of password data is securely transmitted over SSL to your encrypted Online Security Vault.

#### Making Tor Faster and More Secure

IronKey has extended the public Tor network with its own, high-performance servers. This improves the overall security in at least two ways:

> Since IronKey controls the "exit-node" in your encrypted Tor circuit, we can ensure that no one is injecting unwanted or malicious content into your online communications, such as advertisements or spyware. You are not assured this level of security with other publicly-run exit-nodes.

> IronKey can also make sure that no exit-node is redirecting your web traffic by providing addition DNS protections. This anti-pharming measure can also help mitigate phishing attacks and other online threats.

Find lots more technical information at *https://learn.ironkey.com*.



# How does it work?

## Product Walkthrough

Your IronKey Enterprise Secure Flash Drive consists of the following components:

- » IronKey Unlocker (Windows, Mac and Linux)
- >>> IronKey Control Panel (Windows only)
- >> IronKey Virtual Keyboard (Windows only)
- >> Mozilla Firefox & IronKey's Secure Sessions Service (Windows only)
- >> IronKey Password Manager (Windows XP & Vista only)
- >>> IronKey Secure Backup (Windows only)
- >> **RSA SecurID** (Windows only)
- >>> my.ironkey.com (Windows only)

**NOTE:** Some of these components may not be available, depending on how your System Admin configured your IronKey.

#### **Standard Usage Requires:**

- » Windows 2000 (SP4), XP (SP2), Vista, Mac 10.4+ or Linux (2.6+) computer
- » A USB 2.0 port for high-speed data transfer
- >> An Internet connection for the online services
- » An email from your System Admin with an Activation Code

#### ACTIVATION AND INITIALIZATION (WINDOWS ONLY)

When you open the package, you will find one IronKey Secure Flash Drive, one lanyard with keyring, and a Quick Start Guide. Your IronKey can only be setup on a Windows computer. Below is a brief description of the standard way of setting up an IronKey:

	Step	Description
I	Plug the IronKey into your Windows computer's USB port.	Your IronKey needs to be activated on a Windows 2000, XP or Vista computer. To use the full speed of the IronKey, plug it into a USB 2.0 port.
2	The "Activate Your IronKey" screen will appear.	The IronKey autoruns as a virtual CD-ROM. This screen may not appear if your computer does not allow devices to auto-run. You can start it manually by double-clicking on the IronKey icon in "My Computer" and running "IronKey.exe".

3	Retrieve the email with your Activation Code. Copy and paste it into the IronKey window.	Your System Admin has setup your IronKey ahead of time to abide by your organization's security standards. You will receive an email with an Activation Code that is needed to use your IronKey.
		Enter your email address and your Activation Code into the fields provided on the IronKey window. Click 'Continue' when you are ready.
		If your IronKey cannot connect to the Internet, click "Edit Proxy Settings" to adjust its network settings.
4	Create a device password and a	Since you can have multiple IronKeys associated with one IronKey account, the nickname helps you distin- guish between different IronKey devices.
	nickname for your IronKey.	The threat of brute-force password attacks is removed by the IronKey's self-destruct feature. Your password is case-sensitive and must match your organization's password policy.
5	Back up your password to your online IronKey account Backup my password online in case I forget it.	If enabled, you have the option to back up your pass- word online to your <i>my.ironkey.com</i> account. That way, if you ever forget your password, your System Admin can email you a reminder.
6	The IronKey will initialize.	During this process, it will generate the AES encryption keys, create the file system for the secure volume, and copy over secure applications and files to the secure volume.
7	Set up your personalized login in- formation for your <i>my.ironkey.com</i> account by clicking the 'Login to <i>my.ironkey.com</i> ' button.	If enabled, you continue the setup process online. <i>my.ironkey.com</i> is a secure site where you can man- age your IronKey account and devices. Accessing <i>my.ironkey.com</i> requires two-factor authentication (your IronKey and your password).
8	Follow the onscreen directions to setup your <i>my.ironkey.com</i> account.	Depending on your organization's settings, you will cre- ate a unique username, password, confirm your email address for out-of-band authentication, and answer Secret Questions for supplemental authentication.
		whenever you log in, as well as a Secret Phrase that is used as an anti-phishing measure when communicating with you via email.
9	You may need to respond to a confirmation email by entering the confirmation code online.	IronKey must verify your email address because it is used with important services related to your online account.

At this point, your IronKey is ready to protect your data, identity, and online privacy.

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#### USING THE IRONKEY UNLOCKER ON WINDOWS

The IronKey Unlocker allows you to securely access your files on multiple operating systems. It prompts you for your password, securely validates it, and then mounts your secure volume where all of your files are stored on the IronKey.

	Step	Description
I	Plug in your IronKey and unlock it with your password.	When you plug your IronKey in, the "Unlock Your Iron- Key" window appears (if it does not, you can go to "My Computer" and double-click on the IronKey drive). Entering your password correctly will mount your se- cure volume with all your secure applications and files.
	Cannon C. Constant of a set of a lattice drive a set of the set of a lattice drive a set of the set of a lattice drive a set of the set of a lattice drive a grade of the borders account Entertheory Setterns	Entering the wrong password too many times will permanently erase all of your data. After every three attempts, you must unplug and reinsert the IronKey. <b>NOTE</b> : Some operations require that your IronKey connect to the Internet before unlocking. If it cannot connect, click on " <i>Edit Proxy Settings</i> " to configure how your IronKey connects to the Internet.
2	Choose which action to take when you unlock it. Vew files stored on EuriKey drive a incorronKey Control - anel Inlock HonKey in Read-Only Mode Log into online BronKey account	By selecting the corresponding checkboxes before unlocking your IronKey, you can view your secure files, launch the IronKey Control Panel, unlock your Iron- Key in Read-Only Mode, and/or securely log into your <i>my.ironkey.com</i> account.

Here is how to unlock your IronKey on Windows 2000 (SP4), XP (SP2), and Vista:

#### USING THE IRONKEY UNLOCKER ON A MAC (10.4+)

	Step	Description
I	Plug in your IronKey and unlock it with your password.	When you plug in your IronKey, go to "IronKey:Mac:IK Unlocker" and double-click on the IronKey drive.
	Pesswort 0	Entering your password correctly (which is verified in hardware) will mount your secure volume with all your secure files.
	Unlock View files stored on IronKey Drive Unlock IronKey in Read-Only Mode	Entering the wrong password too many times will permanently erase all of your data. After every three attempts, you must unplug and reinsert the IronKey.

2	Choose which action to take when you unlock it.	By selecting the corresponding checkbox before un- locking your IronKey, you can view your secure files and/or unlock your IronKey in Read-Only Mode.
3	Locking & unplugging the IronKey	Clicking "Lock Drive" will exit open IronKey applica-
	GIRONKEY Lock Your IronKey	tions and lock the device. It is then safe to unplug it from your computer.
	Lock Change Password	<b>NOTE</b> : In IronKey Enterprise, you may not be allowed to change the device password or unlock your IronKey on a Mac, depending on your System Administrator's configuration.

#### USING THE IRONKEY UNLOCKER ON LINUX

IronKey has extended its core platform compatibility to include Linux systems. If enabled, you can manage your secure files on Linux (2.6+), allowing you to securely transfer files from and between Windows and Linux computers.

Depending on your Linux distribution, you may need root privileges to use the program '*iron-key*' found in the Linux folder of the mounted virtual CD-ROM. If you have only one IronKey attached to the system, simply run the program from a command shell with no arguments (e.g. "*ironkey*"). If you have multiple IronKeys, you will have to specify the device name of the one you wish to unlock.

Note that 'ironkey' only unlocks the secure volume; it must then be mounted. Many modern Linux distributions will do this automatically; if not, run the mount program from the command line, using the device name printed by 'ironkey'.

'ironkey' may also be used to lock the device. Use:

ironkey --lock [devicename]

to lock the IronKey named "devicename", and:

ironkey --read-only

to unlock the IronKey in Read-Only Mode.

Note that simply unmounting the device will not automatically lock the secure volume. To lock the device you will have to either unmount and physically remove (unplug) it, or else run:

ironkey --lock

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#### Please note the following important details for using your IronKey on Linux:

#### I. Kernel Version must be 2.6 or higher

If you compile your own kernel, you must include the following in it:

- >> DeviceDrivers->SCSIDeviceSupport-><\*>SCSICDROMSupport
- >> DeviceDrivers-><\*> Support for Host-side USB
- $>\!\!>$  DeviceDrivers-><\*> USB device filesystem
- $\gg$  DeviceDrivers-><\*> UHCI HCD (most Intel and VIA) support
- >> DeviceDrivers-><\*> USB Mass Storage Support

The kernels that are included by default in most major distributions already have these features, so if you are using the default kernel that comes with a supported distribution you do not need to take any other action.

Also, on 64-bit linux systems the 32-bit libraries will have to be installed in order to run the ironkey program.

#### 2. Mounting problems

Make sure you have permissions to mount external SCSI & USB devices

>>> Some distributions do not mount automatically and require the following command to be run:

```
mount /dev/<name of the device> /media/<name of the mounted
device>
```

>>> The name of the mounted device varies depending on the distribution. The names of the IronKey devices can be discovered by running:

ironkey --show

#### 3. Permissions

You must have permissions to mount external/usb/flash devices

>>> You must have permissions to run executables off the IronKey CD-ROM in order to launch the IronKey Unlocker

» You may need root user permissions

#### 4. Supported distributions

Not all distributions of Linux are supported. Please visit *https://support.ironkey.com/linux* for the latest list of supported distributions.

#### 5. The IronKey Unlocker for Linux only supports x86 systems at this time.

**NOTE**: In IronKey Enterprise, you may not be allowed to change the device password or unlock your IronKey on a Mac, depending on your System Administrator's configuration.

See https://support.ironkey.com/linux for more information.

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#### USING THE IRONKEY CONTROL PANEL (WINDOWS ONLY)



The IronKey Control Panel is a central location for:

- >>> Launching secure applications
- >>> Securely logging into my.ironkey.com
- » Configuring your IronKey settings
- » Updating your device
- >>> Changing your IronKey password
- » Editing Password Manager data
- » Safely locking your device
- >>> Getting online help

Most of the Control Panel's options are located in the "Settings" menu.

	Step	Description
Ι	Creating, editing, deleting secure files	When you click on "Secure Files" in the IronKey Control Panel, Windows Explorer will open directly to your secure volume.
	Management Secure Files	All files on your IronKey are strongly encrypted with military-grade AES encryption. Encrypting files is as simple as moving them into the secure volume. Dragging files onto your desktop will decrypt them on-the-fly in hardware. The IronKey gives you the convenience of working as you normally would with a regular flash drive, while at the same time providing strong and "always-on" security.
2	Updating device firmware/soft- ware	The IronKey can securely update its software and firmware through signed updates that are verified in hardware. This allows users to keep their devices up- to-date and protect themselves from future malware and online threats.
	Software Updates	To check for available updates, click the "Check for Up- dates" button. If an update is available, you can choose to download and install it by clicking the "Download Update" button.

3	Configuring device settings Preferences	<ul> <li>The Settings menu allows you to configure preferences to your liking, such as:</li> <li>» Enabling/Disabling the Password Manager</li> <li>» Enabling/Disabling the Secure Sessions</li> <li>» Configuring Password Manager options</li> <li>» Select which web browser your IronKey should use</li> </ul>
	Reformat Secure Volume Restore IronKey Applications	As well as some important drive maintenance features: » Reformatting your secure volume » Restoring your IronKey applications if they are erased or corrupted
4	Configure your IronKey's network and proxy settings	Click on Network Settings to configure how your IronKey connects to the Internet: >>> Direct Connection: Does not use a proxy >>> Use System Settings: import the proxy settings from Windows' Internet Options
	Network Settings	<ul> <li>&gt;&gt; Use WPAD: Enter the URL to where your Web Proxy Auto-Detect file is located</li> <li>&gt;&gt; Manual Proxy: Enter the URL and port number for your proxy server</li> <li>If proxy authentication is required, you can enter your username and password in the appropriate fields</li> </ul>
5	Creating a Lost & Found Message	If editing is enabled, this feature allows you to create a message that will appear on the IronKey Unlocker win- dow. In the event that you lose your IronKey, someone can return it to you if you provide your contact infor- mation.
6	Changing your device password IronKey Password	You can change your device password, and, if enabled, optionally back it up online to your Online Security Vault at <i>my.ironkey.com</i> . Changing your password on a regular basis is a good security practice. However, be especially careful to remember your IronKey password

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7	Adding, renaming, and removing applications to the Applications List Applications Mozilla Firefox RSA SecurID One-Time Passwords	To manage the items in the Application List of the IronKey Control Panel, simply right-click anywhere in Application List. A menu will appear allowing you to: I. Browse to a new application to add it to the list 2. Rename existing applications in the list 3. Delete an application from the list 4. Modify the way the list is presented
	Add Application	Please note that:
	Rename Application View as Large Icons List Tile	» Items in the list are shortcuts to actual files. Manag- ing the items in the list will not alter the actual file.
		» Items are automatically sorted alphabetically
		» Any file can be added to the list, including docu- ments, images, and batch files
		For items that are not applications, Windows will open the item with the default program associated with that filetype
8	Locking & unplugging the IronKey	Clicking "Lock Drive" will exit open IronKey applica- tions and lock the device. It is then safe to unplug it from your computer.
		Do not unplug your IronKey while applications are still running. This could result in data corruption.

#### USING THE IRONKEY VIRTUAL KEYBOARD (WINDOWS ONLY)

If you are using your IronKey on an unfamiliar computer and are concerned about keylogging and screenlogging spyware, use the IronKey Virtual Keyboard, which helps protects your passwords by letting you click out letters and numbers. The underlying techniques in the IronKey Virtual Keyboard will bypass many trojans, keyloggers, and screenloggers.

The IronKey Virtual Keyboard can be launched in a couple of ways:

- » In places where you enter a password into the IronKey (e.g. the IronKey Unlocker, changing your device password, initializing your device), click on the Virtual Keyboard icon
- $\gg$  Use the keyboard shortcut of CTRL + ALT + V

The IronKey Virtual Keyboard can be used in a number of other applications when you need extra security typing out information (e.g. email, documents, etc.).

	Step	Description
I	Click the IronKey Virtual Key- board icon. The IronKey Virtual Keyboard will appear. Alternatively, you can press CTRL + ALT + V	Image: Second
2	Click on the keys to type out your password. Click on 'Enter' when you are finished.	Note that you can use the IronKey Virtual Keyboard in conjunction with the actual keyboard if you wish, so that some characters are typed and some are clicked.
3	You can optionally click the "Randomize" button to random- ize where the keys are. This helps protect against screenloggers.	Notice that when you click on a key in the Virtual Key- board, all of the keys will go blank. This is a protection that prevents screenloggers from capturing what you clicked on.
	Randomize	If you do not wish to use this protection, simple dis- able it in the options menu next to the close button.
	IronKey Virtual Keyboard (Ctrl+Alt+V)     III       J 2 3 4     Auto-launch for password fields       G w c r     Screen-logger protection       a d f g h 1 k 1 ; * *       Case z x c v b n m , . / * Enter       Swft	You can also have the Virtual Keyboard automatically launch when it encounters password fields. This too is configured in the options menu.

#### USING THE ONBOARD FIREFOX & SECURE SESSIONS SERVICE (WINDOWS)

If enabled, a Firefox web browser is already onboard your IronKey, so none of your cookies, history files, bookmarks, add-ons or online passwords is stored on the local computer. Now you can carry your personalized web experience with you to other computers without worry.

	Step	Description
Ι	Launch the onboard Firefox web browser for portable surfing	If enabled, clicking on the Mozilla Firefox icon in the Applications list of the IronKey Control Panel will
	Applications	launch the onboard Firefox. You cannot have a local version of Firefox running at the same time; if you do, you will be prompted to close it.
	Mozilla Firefox	

2	Toggle Secure Sessions for secure and private surfing	If enabled, clicking the IronKey button on the bottom right of the onboard Firefox will silently turn IronKey's Secure Sessions Service on/off. This will create an encrypted tunnel directly from your IronKey, out to a secured IronKey web server, where it is then decrypt- ed and sent out to the destination site.
		ing protection (for example, we do our own DNS checking), as well as enhanced privacy protection (for example your IP address will not be available to other websites and ISPs). You can check this out by going to a site such as <i>whatismyip.com</i> or <i>ipchicken.com</i> .
3	Using the Secure Sessions Tools: Network Map, Bandwidth Meter, and Changing Identities	At any point while using Secure Sessions, you can launch additional tools form the IronKey System Tray Menu that show you more information regarding your web traffic and current session.
	Network Map     Secure Sessions       Bandwidth Meter     IronKey Control Parket       Change Identity     Secure Browser       Settings     Lock IronKey	The Network Map will show all of your available "circuits" and where in the world your traffic will be coming from.
		bandwidth Meter will show you your current bandwidth metrics.
		You can easily change your apparent online "identity", which creates a new random circuit and changes the path of your encrypted web traffic. As you will be coming from a different IP address, it will likely appear to websites that you are a different person.

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#### USING THE IRONKEY PASSWORD MANAGER (WINDOWS XP & VISTA ONLY)

The IronKey Password Manager, if enabled, connects to the onboard Firefox browser, or to Internet Explorer (versions 6 or 7) on your computer, automatically filling in your saved pass-



words so you can log directly into your online accounts. The IronKey Password Manager can securely store your sensitive online identity information, including usernames, passwords, credit card numbers and addresses. It can even generate strong passwords for you, so that you can really lock down your online accounts. Not having to type out your passwords provides added protection from keyloggers and other crimeware.

IronKey's Password Manager also allows you to back up your encrypted Password Manger data to your Online Security Vault, synchronize password data between IronKeys, or, if your IronKey is ever lost or stolen, securely restore all your passwords to a new IronKey. Only you can access and decrypt your passwords.

The IronKey Password Manager does not store your passwords in a file on the file system of the flash drive, so malware will not be able to simple copy off your password database.



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3	Editing/deleting logins and Por- table Bookmarks	You can manage your Password Manager accounts from within the IronKey Control Panel. Each website will have a set-able name, a URL, a username (logins only), and a password (logins only). Your passwords are not shown unless you click the "Show" checkbox.
4	Backing Up and Restoring Pass- word Manager Data	You can securely back up your encrypted Password Manager data to your Online Security Vault. Simply click the corresponding buttons from within the Iron- Key Control Panel. This procedure will back up your Portable Bookmarks, logins, and Form Filler data. Synchronizing IronKeys (or setting up Master-Slave relationships) is easy since you can restore password backups to your other IronKeys.
5	Using the Form Filler	You can have the IronKey Password Manager automati- cally fill in your webform data, such as names, phone numbers, addresses, credit card data and email ad- dresses. First, set up this information by clicking on the "Set- tings" button in the IronKey Toolbar. Then, to fill a webform, simply click the "Form Filler" button.
6	Generating strong and random passwords Password Generator	You can use the Password Generator (located within the IronKey Control Panel) to create long, random passwords. Then, you can have the IronKey Password Manager remember then for you. Simply copy and paste them into a webform when logging into an online account.
7	Automatically logging into online accounts	When you add a login to your Portable Bookmarks, that login will appear not only in your Portable Book- marks list, but also in the IronKey System Tray Menu. Simply right-click on the IronKey icon in the System Tray, and then click on the Secure Login. The onboard Firefox web browser will launch and automatically log you into the account. Safely logging into your online accounts has never been easier.

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#### USING THE SECURE BACKUP SOFTWARE (WINDOWS ONLY)

If your IronKey is lost or stolen, you have peace of mind knowing that your confidential information cannot be seen by anyone but you. And getting your data back is simple with IronKey's Secure Backup software, which, if enabled, securely restores your data to a new IronKey.

Back up your data on a regular basis.

	Step	Description
Ι	Backing up your IronKey	You can create an encrypted backup of a single file or your entire IronKey to your local comput- er. Click on the "Secure Backup" button in the IronKey Control Panel, select a destination folder, and select which files to back up. It's that simple.
2	Restoring encrypted backups	If you ever lose your IronKey, you can restore your data from an encrypted backup. Open the Secure Backup client, select the location on your local computer where the backup is located, and select which files/folders to restore. If the data is coming from a different IronKey, you will have to supply the device password for that IronKey.



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#### USING RSA SECURID ON YOUR IRONKEY (WINDOWS ONLY)

If enabled, your IronKey can provide additional strong authentication capabilities by generating RSA SecurID one-time passwords. Your System Administrator will need to provide a file to import your token(s) and will likely be the one importing your tokens.



	Step	Description
I	Open the RSA SecurID application	Click on the icon in the IronKey Control Panel's application list.
2	Import a .stdid file. This may be done by your System Admin for you.	<ol> <li>Click the 'Options' button</li> <li>Click the 'Add' button</li> <li>Browse on your computer to the .stdid file</li> <li>A password may be required to unlock the file</li> <li>Your token(s) will then be added.</li> </ol>
3	If you prefer, rename your tokens	Click the Rename button to create a name for the selected token.
4	In the Options window you can also delete tokens by clicking the 'Delete' or 'Delete All' button.	Be careful when deleting tokens, as this operation cannot be undone.
5	To generate a one-time password, select a token from the dropdown list. If a PIN is required, enter the PIN into the space provided and press ' <i>Enter</i> ' You can optionally save a PIN for each token. Periodically a new one-time password will be generated. To copy your pass- word to the clipboard, click ' <i>Copy</i> '.	RSA SecurID One-Time Passwords

#### IMPORTING A DIGITAL CERTIFICATE INTO THE IRONKEY (WINDOWS ONLY)

The IronKey Cryptochip includes a limited amount of extremely secure hardware storage space, which can be used for storing the private key associated with a digital certificate. This provides you with additional strong authentication capabilities. For example, you could store a self-signed certificate used for internal systems that will allow you to automatically log in when using the IronKey's onboard Firefox web browser.

The import process uses IronKey's PKCS#11 interface and requires Mozilla Firefox. Note that there is only space for one additional private key in the IronKey Cryptochip, though that key will receive the security benefits of the Cryptochip's tamperproof hardware and self-destruct mechanisms.

	Step	Description
Ι	Open the onboard Firefox	Click on the icon in the IronKey Control Panel's applica- tion list on your user's device.
2	Open Firefox's Options menu to the Encryption tab.	<ol> <li>Click the 'Tools' in the menu bar</li> <li>Click on 'Options'</li> <li>Click the 'Advanced' icon</li> <li>Click on the 'Encryption' tab</li> </ol>
3	Click the 'View Certificates'	
	button. This will open the Firefox Certificate Manager	Options       Image: Content Feeds Privacy Security Advanced         Main Tabs Content Feeds Privacy Security Advanced         General Network Update Encryption         Protocols         Use SSL 3.0         Use SSL 3.0         Certificates         When a web site requires a certificate:         Image: Select one automatically         Image: View Certificates         Revocation Lists         View Certificates         Revocation Lists         Verification         Security Devices

4	Note that IronKey's certificate is available here. Now you can add your own. Click the ' <i>Import</i> ' button.	Vertificate Manager         Vour Certificates Other People's Web Sites Authorities         You have certificates from these organizations that identify you:         Certificate Name       Security Device         Purposes       Serial Number       Expires On         Interview       010050668171       fromKey PKCS#11 <unknown>       47:05:P9:09:03:       9/30/2018         View       Bodyup All       Import       Delete         View       Bodyup All       Import       Delete</unknown>
5	Browse to the PKCS#12-for- mat certificate file and open it.	You will be prompted for the location of the PKCS#12- format certificate file (file extension will be .p12 in UNIX/ Linux, .pfx in Windows).
6	A window will appear ask- ing you to confirm where to store the certificate. Choose "IronKey PKCS#11"	Choose Token Dialog           Please choose a token.           IronKey PKCS#11           OK
7	Enter the password that was used to protect the certifi- cate. If no password was used, sim- ply leave the text field blank.	Password Entry Dialog       Image: Comparison of the password that was used to encrypt this certificate backup.         Password:       Image: Comparison of the password of the pa
8	Your certificate is now stored securely in the IronKey Cryptochip and is available for use in the onboard Mozilla Firefox.	Alert  Successfully restored your security certificate(s) and private key(s). OK

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#### USING MY.IRONKEY.COM (WINDOWS ONLY)

NOTE: Depending on how your System Administrator has configured your IronKey, you many not have an online IronKey account, and this section may not apply to you.

Your IronKey supports advanced cryptographic authentication using strong PKI key pairs generated in the IronKey Cryptochip. When you log into *my.ironkey.com* from your device, it uses these unique keys as your digital identity credentials. This locks down your account so that you must have both your IronKey and your password in order to gain access. In other words, only you can access your online IronKey account, even if someone stole your IronKey or your password.

	Step	Description
I	Securely logging into your account	If enabled, you can securely log into your <i>my.ironkey.com</i> by clicking the " <i>my.ironkey.com</i> " but- ton in the IronKey Control Panel. This will initiate a complex PKI handshake, thus logging you in with strong, multi-factor authentication.
		If you ever lose your IronKey, you can log into Safe Mode by going to <i>https://my.ironkey.com</i> , log- ging in the account credentials you created when you activated your account. This will allow you to mark an IronKey as lost or recover a forgotten device password. This depends on how your Sys- tem Administrator has configured your IronKey. Ask your System Administrator for information.
2	Marking IronKeys as lost	If you ever lose your IronKey, you can rest as- sured that no one will ever get your data. As an additional precaution, you can mark an IronKey as lost from within <i>my.ironkey.com</i> , which will prevent that device from ever accessing your account. If you find your IronKey later, you can also mark it as found again.
3	Recovering device passwords Last Device Password Backup: 08/8/07 7:43 pm PST Recover Password Delete Backed Up Password	People sometimes forget passwords. IronKey gives you the option to back up your device pass- word to your Online Security Vault at <i>my.ironkey.</i> <i>com.</i> That way, you can log into Safe Mode or with another IronKey and recover the password, or have your System Administrator email you help.
4	Deleting your Password Manager backup data.	If you wish to delete your encrypted Password Manager data that you backed up to your Online Security Vault, simply click the "Delete Password Manager Data" button.

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5	Monitoring account activities	The Account Dashboard shows you the recent activities on your account, such as logins, failed password attempts, and when your device pass- word has been recovered.
6	Enabling Account Alerts for real-time account monitoring	You can enable a number of Account Alerts for additional insight into what activities are occur- ring on your <i>my.ironkey.com</i> account. An email will be sent to you with details on the security event, such as the time and IP address of the event. All emails regarding your account will have part of your Secret Phrase in the subject line for addi- tional anti-phishing protection.
7	Changing account credentials	You can change your password, Secret Questions, Secret Image and Phrase, as well as your email ad- dresses from within <i>my.ironkey.com</i> as often as you wish to ensure that no one else may access your account. Creating a secondary email address gives you a fail-safe in case your primary email address is no longer available.

In the event that you ever lose your IronKey or forget your IronKey device password, you can still access the site in Safe Mode: a restricted mode with limited functionality. This is useful for marking your IronKey as lost, or recovering a forgotten password.

	Step	Description
Ι	Go to https://my.ironkey.com	Here you will log into Safe Mode without your IronKey.
2	Enter your email address (or user- name) and your online account pass- word. Click "Submit"	Your Secret Image will be displayed so that you know you are at the correct site.
		Do not enter your device password in this screen. If you have forgotten your online account pass- word, click the "Reset Password" link.
3	An email will be sent to you with a Login Code.	Copy and paste that login code into the page that asks for it.
		Depending on the configuration of your account, you may need to answer your Secret Questions.
4	You are now logged into Safe Mode.	If you had forgotten your device password and have backed it up to your Online Security Vault, you can recover it now.

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#### USING YOUR IRONKEY IN READ-ONLY MODE (WINDOWS, MAC, LINUX)

You can unlock your IronKey in a read-only state such that files on your IronKey cannot be edited. An example of when this is useful is when you want to access a file on your IronKey while using an untrusted or unknown computer. If you unlock your IronKey in Read-Only Mode, you need not fear that malware on that machine will infect your IronKey or modify your files.

When you unlock your IronKey in Read-Only Mode, you will remain in Read-Only Mode until you lock your IronKey.

Note that some features are not available in Read-Only Mode because they require modifying files on your IronKey. Examples of unavailable features include the onboard Firefox, reformatting, updating and restoring applications and files to your IronKey, and using the Applications List.

#### On Windows and Mac OS X Computers:

	Step	Description	
I	When unlocking your IronKey, select the "Unlock IronKey in Read-Only Mode" checkbox	Password ••••••• View files sto Curch Dronk Unlock Jronko	wed on Iro-Key drive Key Control Pane Cy n Read Only Made
2	You will see a message in the IronKey Control Panel that confirms you are in Read-Only Mode.	CONTROL PANEL REL CONTROL PANEL FILE Management Management Secure Files	AD-ONLY MODE s cannot be edited

#### **On Linux Computers:**

	Step	Description
I	To unlock your IronKey in Read-Only Mode on Linux, use:	ironkeyread-only
2	To return to a normal state where you can edit files again, lock your IronKey	ironkeylock

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#### USING THE IRONKEY MALWARE SCANNER (WINDOWS ONLY)

Normal flash drives can inadvertently spread malware from one computer to another. Your IronKey, however, includes built-in anti-malware features, including:

- » A read-only virtual CD from which the most important IronKey files run
- $\gg$  Autorun protection from worms and viruses that spread just by plugging in a USB drive
- » A Read-Only Mode for the IronKey Secure Drive
- » Cryptographic operations in IronKey hardware completely protected from malware
- » And, if enabled by your System Administrator, the IronKey Malware Scanner.



The IronKey Malware Scanner is a self-cleaning technology that helps keep your IronKey secure by detecting and removing malware that gets on your IronKey from an infected file or machine. It is powered by the McAfee<sup>®</sup> Anti-Virus and Anti-Malware signature database, which is constantly updated to combat the latest malware threats. It works by first checking for the latest updates, scanning your IronKey, and reporting and cleaning any malware that is found.

#### Keeping your IronKey Malware Scanner Up to Date

It is important to keep your IronKey Malware Scanner up to date to protect against the latest malware threats. As long as you have an Internet connection, the IronKey Malware Scanner will update itself before each scan. The date it was last updated is displayed onscreen.

Your first update may take a long time to download, depending on your Internet connection. If your IronKey Malware Scanner becomes too far out of date, it will need to download a large file to bring it back up to date.

	Step	Description
I	If enabled, the IronKey Malware Scan- ner runs automatically when you unlock your IronKey.	The IronKey Malware Scanner is a feature that is configured by your System Administrator.
	You can bring the IronKey Malware Scanner to the foreground at any time by clicking on the IronKey Malware Scanner system tray icon.	🤄 🔂 😔 4:33 PM
2	The IronKey Malware Scanner will automatically check for updates. This is an important step in ensuring	Checking for updates requires an Internet con- nection. Make sure there is at least 135 MB of free space on your IronKey for downloading and storing the latest malware signature files.
	ware threats.	Your first update may take a long time to down- load, depending on your Internet connection.

3	The IronKey Malware Scanner will au- tomatically scan your IronKey, including onboard files (compressed and uncom- pressed files) and any running system processes.	A window opens in the background that shows you the scanning progress. <b>NOTE</b> : The IronKey Malware Scanner does not scan your IronKey when in Read-Only Mode.
4	The IronKey Malware Scanner will report and clean any malware that is found.	If an infection is found, the file will automatically be clean. A window will also appear with a report of the event.
5	You can also scan your computer drives by selecting the drive you would like to scan from the IronKey Malware Scanner system tray menu.	<b>NOTE</b> : The IronKey Malware Scanner is not a replacement for Anti-Virus or Anti-Spyware software on your computer; it is not designed to clean your registry or do real-time malware pre- vention. It is designed specifically for scanning and cleaning your IronKey.

A popular use for the IronKey Malware Scanner is to use it in Read-Only Mode to detect if malware on a computer you suspect is infected. The IronKey provides a secure, convenient and portable way of detecting malware, making it a valuable addition to your security toolbelt.

## **Product Specifications**

CAPACITY\* IGB, 2GB, 4GB, 8GB

SPEED\* Up to 30 MB per second read speed Up to 20 MB per second write speed

DIMENSIONS 75mm X 19mm X 9mm

WEIGHT 0.8 oz

WATERPROOF MIL-STD-810F

**OPERATING TEMPERATURE** -40 C, +85 C

OPERATING SHOCK 16G rms

#### ENCRYPTION

Hardware: 128-bit AES (CBC-Mode) Hashing: 256-bit SHA PKI: 2048-bit RSA

#### **FIPS CERTIFICATIONS**

FIPS 140-2 Level 2 (Certificate Number 938) FIPS 186-2 (Certificate Numbers 305 and 380) FIPS 197 (Certificate Numbers 655 and 689)

#### HARDWARE

USB 2.0 High-Speed & USB 1.1

#### OS COMPATIBILITY

Windows 2000 (SP4), XP (SP2), Vista IronKey Unlocker for Linux (2.6+, x86) IronKey Unlocker for Mac (10.4+, PPC and Intel)



Designed and Assembled in the U.S.A.

IronKey devices do not require any software or drivers to be installed.



\* Speeds tested with 4GB device in a laboratory environment with lometer software. Actual speeds may vary. Advertised capacity is approximate and not all of it will be available for storage. Some space is required for onboard software.

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# What's next?



In many ways, that's up to you. We are focused on building not only the world's most secure flash drive, but also enabling technologies that are simple and enjoyable to use. Your feedback really matters to us, and we carefully review all feature requests and customer feedback for prioritization of our next great features and products.

Have a cool idea or suggestion? Please let us know. You can open a thread on the IronKey Forum (*forum.ironkey.com*) or submit feedback to *feedback@ironkey.com*. Let us know if you would like to be a beta tester of new functionality.

## Where can I go for more info?

We are endeavoring to be very open about the security architecture and technology that we use in designing and building the IronKey devices and online services. A great deal of information can be found online on our websites:

forum.ironkey.com	User forum with thousands of "IronKeyologists"
www.ironkey.com	General Information
learn.ironkey.com	Technical Information, such as whitepapers & FAQs
support.ironkey.com	Customer support information

## Who is the IronKey Team?

The IronKey Team consists of security, fraud, and industry experts with many years of background at companies such as Visa, RSA Security, PayPal, Authenex, Nokia, Cisco, Lexar, Netscape, Tumbleweed, Valicert, Apple, and the Department of Homeland Security. IronKey CEO Dave Jevans is also the chairman of the Anti-Phishing Working Group (*www.antiphishing.org*).



We have spent years and millions of dollars of research and development to create the IronKey. Simple, accessible, and of great value, now you can carry the world's most secure flash drive to protect your digital life online and on-the-go.

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### **Contact Information**

#### Product Feedback

feedback@ironkey.com

#### **IronKey Online**

https://my.ironkey.com https://learn.ironkey.com https://support.ironkey.com https://forum.ironkey.com

#### Feature Requests

featurerequest@ironkey.com

#### Support

For support, please contact your Helpdesk or System Admin



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