

IRONKEY™ D300SM SECURE USB 3.0 FLASH DRIVE

User Guide



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About This Guide

IronKey™ D300SM is a Managed drive that requires a device license and can be managed by either SafeConsole or IronKey EMS. Both SafeConsole and IronKey EMS are secure cloud or on-premises management platforms that allow your organization to centrally manage compatible USB (Universal Serial Bus) storage devices easily and efficiently.

This guide will explain how to setup and initialize a D300SM drive as either a SafeConsole or IronKey EMS managed drive.



Figure 1: IronKey D300SM

Quick Start

Windows (7, 8.1, 10) & macOS Setup (v.10.11.x - 10.14.x)

1. Plug the device into your computer's USB port.
2. When the Device Setup window appears, follow the on-screen instructions. If this window does not appear, open it manually:
 - Windows: Start > This PC > IronKey Unlocker > IronKey.exe
 - macOS: Finder > IRONKEY > IronKey.app
3. When Device Setup is complete, you can move your important files to the IRONKEY SECURE FILES USB drive and they will be automatically encrypted.

Some Windows systems prompt to restart after you first plug in your device. You can safely close that prompt without restarting - no new drivers or software are installed.

About My Device

IronKey D300SM USB 3.0 is a portable flash drive with built-in password security and data encryption. It is designed with advanced AES 256-bit encryption and other features that enhance mobile data security. Now you can safely carry your files and data with you wherever you go.

How Is This Different Than A Regular USB Drive?

FIPS 140-2 Level 3 Certification - The IronKey D300SM is a FIPS-certified device, so you can feel confident that you're complying with regulatory requirements.

Hardware Encryption - The Advanced Encryption Controller in your device protects your data with the same level of protection as highly classified government information. This security technology feature is always on and cannot be disabled.

Password-Protected - Device access is secured using password protection. Do not share your password with anyone so that even if your device is lost or stolen, no one else can access your data.

Device Reset - If the Advanced Encryption Controller detects physical tampering, or if the number of consecutive incorrect password attempts exceeds 10 attempts, the device will initiate a reset sequence. **Important** - When a device is reset, all onboard data will be erased and the device returns to factory settings - *so remember your password.* **NOTE:** Admins can reset password using either SafeConsole or EMS depending on which management server the device is being managed by.

Anti-Malware Autorun Protection (Managed Only) - Your device is capable of protecting you from many of the latest malware threats targeting USB drives by detecting and preventing autorun execution of unapproved programs. It can also be unlocked in Read-Only Mode if you suspect the host computer is infected.

Simple Device Management - Your device includes the IronKey Control Panel, a program for accessing your files, managing your device and editing your preferences, changing your device password, and safely locking your device.

What Systems Can I Use It On?

- Windows® 10
- Windows® 8.1
- Windows® 7
- macOS® (10.11 - 10.14)
- Linux (2.6 or higher) Note: The Linux CLI Unlocker does not support any features that require network access, for example, setting up your device or changing your password.

Some applications are only available on specific systems:

Windows Only

- Virtual Keyboard (English only)
- Anti-Malware Scanner (**NOTE:** Optional Management Feature)
- Device Updates

Product Specifications

For further details about your device, see the **Device Info** page in the IronKey Control Panel.

Specification	Details
Capacity*	4GB, 8GB, 16GB, 32GB, 64GB, 128GB
Speed**	USB 3.0: <ul style="list-style-type: none"> - 4GB: 80MB/s read, 12MB/s write - 8GB & 16GB: 165MB/s read, 22MB/s write - 32GB: 250MB/s read, 40MB/s write - 64GB & 128GB: 250MB/s read, 85MB/s write USB 2.0: <ul style="list-style-type: none"> - 4GB: 30MB/s read, 12MB/s write - 8GB-128GB: 30MB/s read, 20MB/s write
Dimensions	77.9 mm x 22.2 mm x 12.05 mm
Waterproof	Up to 4 ft. (1.2m) Conforms to IEC 60529 IPX8 Product must be clean and dry before use
Temperature	Operating: 0°C to 60°C Storage: -20°C to 85°C
Hardware Encryption	256-bit AES (XTS Mode)
EMI/EMC Compliance	TAA Compliant, FCC, CE, VCCI & KC, RoHS & WEEE

Specification	Details
Certification	FIPS 140-2 level 3 certified
Hardware	USB 3.0 compliant and USB 2.0 compliant Requires 2 free drive letters
OS Compatibility	Windows 10, Windows 8.1, Windows 7 (SP1) macOS v.10.11.x-10.14.x Linux 2.6.x***
Accessibility	IronKey Control Panel is designed to be Section 508 compliant. Users with disabilities have keyboard navigation and screen reader support.
Warranty	5 Years Limited

Designed and assembled in the U.S.A., D300SM devices do not require any software or drivers to be installed.

* Advertised capacity is approximate. Some space is required for onboard software.

** Speed varies with host hardware, software, and usage.

*** Limited Feature Set. No online management features.

Recommended Best Practices

1. Lock the device:
 - when not in use
 - before unplugging it
 - before the system enters sleep mode
2. Never unplug the device when the LED is lit.
3. Never share your device password.
4. Perform a computer anti-virus scan before setting up and using the device.

Setting Up My Device

To ensure there is ample power provided to the D300SM encrypted USB drive, insert it directly into a USB 2.0/3.0 port on a notebook or desktop. Avoid connecting it to any peripheral devices that may feature a USB port, such as a keyboard or USB-powered hub. Initial setup of the device must be done on a supported Windows or macOS based operating system.

Device Access (Windows Environment)

1. Plug the D300SM encrypted USB drive into an available USB port on the notebook or desktop and wait for Windows to detect it.
 - Windows 7/8.1/10 users will receive a device driver notification.
 - Once the new hardware detection is complete, Windows will prompt to begin the initialization process.

2. Select the option **IronKey.exe** inside of the Unlocker partition that can be found in File Explorer. Please note that the partition letter will vary based on the next free drive letter. The drive letter may change depending on what devices are connected. In the image below, the drive letter is (E:).



Device Access (macOS Environment)

1. Plug the D300SM encrypted USB drive into an available USB port on the macOS notebook or desktop and wait for the operating system to detect it.
2. Double click the **IRONKEY** volume that appears on the desktop to start the initialization process.
 - If the Unlocker volume does not appear on the desktop, open Finder and locate the Unlocker volume on the left side of the Finder window (listed under Devices.) Highlight the volume and double-click the Unlocker application icon in the Finder window. This will start the initialization process.

IronKey Control Panel



Setting Up A D300SM Device With SafeConsole

The initialization process will begin by allowing the device to be ready to communicate with the SafeConsole server. The steps needed to register a D300SM to SafeConsole will depend on the policies that your administrator is enforcing. Not all dialogs will be shown.

A SafeConsole Connection Token will be needed. The SafeConsole Connection Token is obtained by the System Administrator through the Quick Connect Guide, located inside of the SafeConsole user interface.

1. Enter the SafeConsole Connection Token that is obtained in the steps above. Review the license agreement, check the checkbox to accept it, and click **Activate** in the bottom left-hand corner.
 - **Optionally Enabled Policies** - These policies may or may not be enabled by your System Administrator. They will appear during device registration if they have been enabled.
 - Confirm Ownership of the device: Enter the Windows username and password that is associated with the login credentials of the computer the device is plugged into.
 - Unique User Token: This token is directly associated with the end user's account and will be provided by the System Administrator.
 - Administrator Registration Approval: The System Administrator may require their approval to proceed with device registration.
2. Enter a secure Password and Confirm it. Once the password created meets the requirements listed to the right side of the input fields, click **Continue**. The requirements of this password will depend on the policy selected by your administrator.
3. Choose a Secure Volume File System (see [Formatting My Device](#)) and click **Continue**.
4. The device will now finalize the setup process and be ready for use. Access the Encrypted Storage by clicking the **Folder Icon** in the top menu. The settings of the device can be accessed and altered by clicking the **Gear Icon**. See the [IronKey Control Panel](#) for more information.

Setting Up A Managed Device With IronKey EMS

The initialization process will begin by allowing the device to be ready to communicate with the IronKey EMS server.

An IronKey EMS Activation Code will be needed. The IronKey EMS Activation Code is obtained by the System Administrator through the IronKey EMS Console. This code can also be emailed to the end user.

1. Enter the IronKey EMS Activation Code that is obtained in the steps above. Review the license agreement, check the checkbox to accept it, and click **Activate** in the bottom left-hand corner.
2. Enter a secure Password and Confirm it. Once the password created meets the requirements listed to the right side of the input fields, click **Continue**.

3. Depending on the policy created by your System Administrator, you may be required to create an Online Account. An email will be provided to the end user with the instructions on how to create an online account. After the account has been confirmed, click **OK**.
 - The user will receive an Online Account Error message if the online account has not been created or there was an issue while attempting to verify the account.
4. Choose a Secure Volume File System (see [Formatting My Device](#)) and click **Continue**.
5. The device will now finalize the setup process and be ready for use. Access the encrypted storage by clicking the **Folder Icon** in the top menu. The settings of the device can be accessed and altered by clicking the **Gear Icon**. See the [IronKey Control Panel](#) for more information.

Using My Device - Managed Features

Accessing My Secure Files

After unlocking the device, you can access your secure files. Files are automatically encrypted and decrypted when you save or open them on the drive. This technology gives you the convenience of working as you normally would with a regular drive, while providing strong, “always-on” security.

To access your secure files:

1. Click **Files** on menu bar of the IronKey Control Panel.
 - Windows: Opens Windows Explorer to the IRONKEY SECURE FILES USB drive.
 - macOS: Opens Finder to the KINGSTON USB drive.
2. Do one of the following:
 - To open a file, double-click the file on the D300SM USB drive.
 - To save a file, drag the file from your computer to the D300SM USB drive.

Hint: You can also access your files by right-clicking the **IronKey Icon** in the Windows taskbar and clicking **Secure Files**.

Unlocking In Read-Only Mode

You can unlock your device in a read-only state so that files cannot be altered on your secure drive. For example, when using an untrusted or unknown computer, unlocking your device in Read-Only Mode will prevent any malware on that computer from infecting your device or modifying your files. Managed devices can be forced to unlock in a read-only state by an administrator.

When working in this mode, the IronKey Control Panel will display the text *Read-Only Mode*. In this mode, you cannot perform any operations that involve modifying files on the device. For example, you cannot reformat the device, restore applications or edit the Applications List, or edit files on the drive.

To unlock the device in Read-Only Mode:

1. Insert the device into the USB port of the host computer and run the **IronKey.exe**.
2. Check the **Read-Only Checkbox** below the password entry box.
3. Type your device password and click **Unlock**. The IronKey Control Panel will appear with the text *Read-Only Mode* at the bottom.

Changing The Unlock Message

The Unlock Message is custom text that displays in the Unlocker window when you unlock the device. This feature allows you to customize the message that displays. For example, adding contact information will display information on how a lost drive can be returned to you. For Managed devices, this feature may or may not be enabled by your System Administrator.

To change the Unlock Message:

1. In the IronKey Control Panel, click **Settings** on the menu bar.
2. Click **Preferences** in the left sidebar.
3. Type the message text in the Unlock Message field. The text must fit in the space provided (approximately 7 lines and 200 characters).

Locking The Device

Lock your device when you are not using it to prevent unwanted access to your secure files on the drive. You can manually lock the device or you can set the device to automatically lock after a specified period of inactivity. For Managed devices, this feature may or may not be enabled by your System Administrator.

Caution: By default, if a file or application is open when the device tries to auto-lock, it will not force the application or file to close. Although you can configure the auto-lock setting to force the device to lock, doing so can result in loss of data to any open and unsaved files.

If your files have become corrupt from a forced lock procedure or from unplugging the device before locking, you might be able to recover the files by running CHKDSK and using data recovery software (Windows only).

To manually lock the device:

1. Click **Lock** in the bottom left-hand corner of the IronKey Control Panel to safely lock your device.
 - You can also use the keyboard shortcut: **CTRL + L** (Windows only), or right-click the **IronKey Icon** in the system tray and click **Lock Device**.

Note: Managed devices will automatically lock during use if an administrator remotely disables the device. You will not be able to unlock the device until the System Administrator re-enables the device.

To set a device to automatically lock:

1. Unlock your device and click **Settings** on the menu bar in the IronKey Control Panel.
2. Click **Preferences** in the left sidebar.
3. Click the **Checkbox** for auto-locking the device and set the time-out to one of the following time intervals: 5, 15, 30, 60, 120, or 180 minutes.

To run CHKDSK (Windows only):

1. Unlock the device.
2. Press the WINDOWS LOGO KEY + R to open the Run prompt:
3. Type CMD and press ENTER.

4. From the command prompt, type CHKDSK, the IRONKEY SECURE FILES USB drive letter, then "/F /R". For example, if the IRONKEY SECURE FILES USB drive letter is G, you would type:
CHKDSK G: /F /R
5. Use data recovery software if necessary in order to recover your files.

Typing Passwords With The Virtual Keyboard

If you are unlocking your device on an unfamiliar computer and are concerned about keylogging and screen logging spyware, use the Virtual Keyboard. It helps protect your device password by letting you click out letters and numbers using your mouse and the virtual keyboard. The underlying techniques in the Virtual Keyboard will bypass many trojans, keyloggers, and screen loggers.

Note: This feature uses a standard QWERTY key set. It is available on Windows only and the language preference for the device must be set to English.

To type a password using the Virtual Keyboard (Windows only):

1. Open the Virtual Keyboard by doing one of the following actions:
 - In the password field, click the **Virtual Keyboard Icon**.
 - When the keyboard focus is in a password field, press **CTRL+ALT+ V**.
2. Click the keys to type your password, and then click **Enter**.

You can also use the Virtual Keyboard in conjunction with the actual keyboard, so that you type some characters and click some characters.

Hint: Click **Randomize** to arrange the keys in a random order. This helps protect against screen loggers.

Note: When you click a key in the Virtual Keyboard, all of the keys briefly go blank. This feature prevents screen loggers from capturing what you clicked. To disable this feature, click the icon (beside the Exit button) and choose **Disable Screen Logger Protection**.

Managing Passwords

You can change your password on your device by accessing the Password tab in the IronKey ControlPanel.

For Managed devices, password policy settings are determined by your System Administrator. Sometimes, you may be required to change your password to comply with new corporate password policies. When a change is required, the Password Change screen will appear the next time you unlock the device. If the device is in use, it will lock and you will have to change the password before you can unlock it.

Note: When a password is required, for example, when logging into the device or during a manual password change operation, you can use the Virtual Keyboard instead of the actual keyboard to type the password.

To change your password:

1. Unlock your device and click **Settings** on the menu bar.
2. Click **Password** in the left sidebar
3. Enter your current password in the field provided.
4. Enter your new password and confirm it in the fields provided.
5. Click **Change Password**.

Formatting My Device

Your device will need to be formatted during initialization before it can be used to store files.

If initializing on Windows, you will be given the option of formatting the IRONKEY SECURE FILES USB drive as either FAT32 or exFAT.

Options are for Windows operating systems only - macOS will automatically format to FAT32

FAT32

- Pros: Cross-platform compatible (Windows and macOS)
- Cons: Limited individual file size of 4GB

exFAT

- Pros: No file size limitations
- Cons: Microsoft restricts usage by license obligations

After initialization, reformatting the IRONKEY SECURE FILES USB drive will erase all your files and your Application List, but will not erase your device password and settings.

Important: Before you reformat the device, back up your IRONKEY SECURE FILES USB drive to a separate location, for example, to cloud storage or your computer.

To reformat a device:

1. Unlock your device and click **Settings** on the menu bar of the IronKey Control Panel.
2. Click **Tools** on the left sidebar.
3. Under Device Health, select the file format and click **Reformat Secure Volume**.

Finding Information About My Device

Use the Capacity Meter, located at the bottom right of the IronKey Control Panel, to see how much storage space is still available on your device. The green bar graph represents how full the device is. For example, the meter will be totally green when the device is full. The white text on the Capacity Meter displays how much free space remains.

For general information about your device, see the Device Info page.

To view device information:

1. Unlock your device and click **Settings** on the menu bar of the IronKey Control Panel.
2. Click **Device Info** in the left sidebar.

The About This Device section includes the following details about your device:

- Model Number
- Serial Number
- Software and Firmware Version
- Release Date
- Management Console
- Secure Files Drive Letter
- Unlocker Drive Letter
- Operating System and System Administrative Privileges

Note: To visit the IronKey website or access more information about legal notices or certifications for IronKey products, click one of the information buttons on the Device Info page.

Hint: Click **Copy** to copy the device information to the clipboard so that you can paste it in an email or support request.

Editing The Applications List

The Applications List, located in the IronKey Control Panel, is the area where you can quickly launch on-board applications and files. Items that appear in the list are shortcuts to the actual files. Managing the list items does not alter the actual file.

To edit the Applications List:

1. Unlock your device. The IronKey Control Panel will appear with the Applications List selected by default.
2. If the IronKey Control Panel is already open, click **Applications** on the menu bar to view the Applications List. Do one of the following:
 - To add a file or application shortcut: Drag a file from the desktop to the Applications List area to add it to the list. You can also right-click the Applications List area and click **Add Application**.
 - To rename or delete list items: Right-click the application or file and choose the action from the menu.
 - To sort or change the way icons appear in the list: Right-click anywhere in the Application list and choose Large Icons, List, Tile, or Sort Alphabetically.

Functions of the Applications List:

- You can add any file to the list, including documents, images, and batch files.
- For items that are not applications, the operating system opens the item with the default program associated with that file type.
- Items that are Windows executables will be hidden from view on macOS. Similarly, macOS application files will be hidden from view on Windows computers.

Resetting My Device

Your device can be reverted back to factory settings. This will securely wipe all data from the device and a new security key will be created for the next use.

For Managed devices, your System Administrator may have this option disabled. Contact your administrator if you need to reset your device.

Resetting your device:

1. Unlock your device.
2. Right-click on the **IronKey Icon** in the system tray.
3. Click **Reset Device**.

Your device will now be reset back to factory settings.

Using My Device - Managed Only Features

Accessing My Device If I Forget My Password

If you forget your password and an administrator has granted you password reset privileges, you can reset it. If your administrator has not granted password reset privileges, you must contact your administrator for help resetting your password.

To reset your password:

1. Plug in your device and start the Unlocker.
2. Click **Password Help**.
3. At the Password Help prompt, click **Reset Password**. Follow the onscreen instructions to complete the password reset.
4. Depending on the management platform, you may receive an email with instructions on how to obtain your recovery code. Otherwise, you will need to contact your administrator to obtain the recovery code. You may be required to provide the request code and serial number.
 - The recovery code will need to be copied and pasted exactly as it is given to you. Incorrect codes count against the ten unlock attempts before the device is reset.
5. Type your new password (or use the Virtual Keyboard) and confirm it in the fields provided, then click **Change Password**.

Scanning My Device For Malware

If enabled by your System Administrator, the Malware Scanner is a self-cleaning technology that detects and removes malware on your device from an infected file or computer. Powered by the McAfee® AntiVirus and Anti-Malware signature database, and constantly updated to combat the latest malware threats, the scanner first checks for the latest updates, scans your device, then reports and cleans any malware that is found.

Some things to know about scanning your device:

- The scanner runs automatically when you unlock your device.
- It scans any running system processes and all onboard files (compressed and uncompressed).
- It reports and cleans any malware it finds.
- The scanner will automatically update itself before each scan to protect you from the latest malware threats.
- An update requires an internet connection.
- Ensure a minimum of 135 MB of free space on the device to accommodate the downloaded malware signature files.
- Your first update may take a long time to download, depending on your internet connection.
- The date of the last update is displayed onscreen.
- If the scanner becomes too far out of date, it will need to download a large file to bring it back up-to-date.

Using ZoneBuilder In SafeConsole

If enabled by your System Administrator, ZoneBuilder is a SafeConsole tool used to create a Trusted Zone of computers. It can be used to restrict device access to computers within the Trusted Zone and, if enabled, can automatically unlock your device, which eliminates the need to enter your password.

If your administrator chooses to enable this policy, you may be required to trust the account.

Trusting the account:

1. Unlock your device and click **Settings** in the IronKey Control Panel.
2. Click **ZoneBuilder** on the left sidebar.
3. Click **Trust This Account**. Your account will now show up in the Trusted Accounts box.

Your account is now in the Trusted Zone of computers. Depending on the policy set by your System Administrator, you may have restricted device access outside of the Trusted Zone or when offline. Your device may also be set to automatically unlock on trusted computers.

To remove a trusted account, simply highlight the account you wish to remove and click **Remove**.

Using My Device On Linux

You can use your device on several distributions of Linux. There are two executables in the linux folder, `Unlocker_32.exe` and `Unlocker_64.exe`. For this guide, replace `Unlocker_xx.exe` with the executable that is compatible with your system.

The device must be previously set up using a Windows or macOS operating system. See [Setting Up My Device](#) for more information. Some Managed device policies, set by the System Administrator, may restrict usage of the device to systems only running Windows or macOS operating systems.

Using The Unlocker

Use the `Unlocker_xx.exe` for Linux to access your files. Depending on your Linux distribution, you may need root privileges to use the program `Unlocker_xx.exe` found in the Linux folder of the mounted public volume. By default, most Linux distributions will append the execute bit to `.exe` files on a fat32 partition. Otherwise the execute bit must be manually set before running by using the following commands.

- `chmod +x Unlocker_32.exe`
- `chmod +x Unlocker_64.exe`

If you have only one device attached to the system, run the program from a command shell with no arguments (for example, `Unlocker_xx.exe`). This will then prompt you for your device password to unlock the drive. If you have multiple devices, you must specify which one you want to unlock.

Note: `Unlocker_xx.exe` only unlocks the IRONKEY SECURE FILES USB; it must then be mounted. Many modern Linux distributions do this automatically. If not, run the mount program from the command line, using the device name printed by `Unlocker_xx.exe`.

Simply un-mounting the device does not automatically lock the IRONKEY SECURE FILES USB. To lock the device, you must either unmount and physically remove (unplug) it, or run:

- `Unlocker_xx.exe -l`

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

1. Kernel Version must be 2.6 or higher
2. Mounting
 - Make sure you have permissions to mount external SCSI and USB devices.
 - Some distributions do not mount automatically and require the following command to be run: `mount /dev/[name of the device] /media/[mounted device name]`
 - The name of the mounted device varies depending on the distribution.
3. Permissions
 - You must have permissions to mount external/usb/devices.
 - You must have permissions to run an executable file from the public volume in order to launch the Unlocker.
 - You might need root user permissions.
4. The Unlocker for Linux supports x86 and x86_64 systems.
5. Policies that will block the device
 - If the device is disabled within the policy settings in either SafeConsole or IronKey EMS, you will not be able to unlock the device.

Where Can I Get Help?

The following resources provide more information about IronKey products. Please contact your Help Desk or System Administrator if you have further questions.

- kingston.com/usb/encrypted_security: Information, marketing material, and video tutorials
- IronKeySupport@Kingston.com: Feedback and feature requests
- kingston.com/support: Product support, FAQ's and downloads

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FCC Information This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.