



SSD FW Updater
User Guide
Software Version 1.0.2

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Software version: 1.0.2

Welcome!

SSD FW Updater enables you to check the firmware of supported SSDs on a Linux™ machine and update it if a newer firmware version is available.

System requirements

Supported SSDs include:

	Linux distribution	
	Fedora (*1)	Ubuntu (*1)
EXCERIA PRO G2 SSD	✓	✓
EXCERIA PRO SSD	✓	✓
EXCERIA PLUS G4 SSD	✓	✓
EXCERIA PLUS G3 SSD	✓	✓
EXCERIA PLUS G2 SSD	✓	✓
EXCERIA PLUS SSD	✓	✓
EXCERIA G2 SSD	✓	✓
EXCERIA SSD	✓	✓
EXCERIA BASIC SSD	✓	✓
EXCERIA with Heatsink SSD	✓	✓
EXCERIA SATA SSD (*2)	✓	✓

*1: Refer to the download web page for the supported versions of each distribution.

2: Products with 240 GB (firmware version: SBFA12.) are not supported.

⚠ CAUTION: To avoid unintentional data loss, make back-up copies of any data on the SSD that you want to keep, before starting a firmware update.

❗ Please note the following before using SSD FW Updater:

- For firmware updates, your computer must be connected to the internet.
- The SSD FW Updater package is signed with GPG (GNU Privacy Guard), so a system with GPG tools available is required to use SSD FW Updater.
- SSD FW Updater must be run with superuser privileges.
- If you have any problems with the operation of the SSD FW Updater, please contact KIOXIA Customer Support (<https://personal.kioxia.com/support>).

How to Use SSD FW Updater

This user guide assumes that you have already correctly installed your SSDs on your Linux machine.

Checking and Removing the GPG Signature

Files downloaded from our download site are signed with GPG. Verify the signature of the downloaded file using our public key, and then remove the signature.

Installation

Install the package from which the signature has been removed in the previous step (.deb or .rpm).

Execution of SSD FW Updater

SSD FW Updater can be used by executing “kfut” command from the command line. Execute this command with superuser privileges and while online.

The functions of kfut can be executed by specifying the following actions and options. (Only one function can be specified at a time.)

Functions:

Function	Action	Description
scan	-s, --scan,	Detects supported SSDs and display their list. The list shows the capacity, model name, serial number, firmware revision, and, if available, the firmware revision that can be updated. Example: <code>sudo kfut --scan</code> <pre> root@f0w0ra:~\$ sudo kfut --scan Capacity Model Serial Revision Update? ----- 1 TB KIOXIA-EXCERIA PLUS G2 SSD 733A380YKKB1 ECFA11.4 960 GB KIOXIA-EXCERIA SATA SSD 40BB803YKFB1 SBFA16.3 SBFA16.5 </pre>
update	-u, --update <serial number>	Updates the firmware found by the scan function. By specifying the serial number when executing the kfut command, the firmware is downloaded from KIOXIA's server and updated. Example: <code>sudo kfut --update <target SSD serial number></code> <pre> root@f0w0ra:~\$ sudo kfut --update 40BB803YKFB1 You have selected drive: 960 GB KIOXIA-EXCERIA SATA SSD 40BB803YKFB1 SBFA16.3 SBFA16.5 Its firmware will be updated from SBFA16.3 to SBFA16.5 Before proceeding, • Please see the Support Page for any Firmware Release Notes: https://europe.kioxia.com/en-europe/personal/support/download/ssd/exceria-sata.html • Please ensure that you have a backup of all the data present on the drive. WARNING: During device programming, ensure your machine remains powered-on. Do you wish to continue? [y/N] y </pre>

help	-h, --help	Displays information on how to use kfut, including actions and options. Example: <code>sudo kfut --help</code> <pre> mgs@ubuntu:~\$ sudo kfut --help KIOXIA SSD FW Updater Copyright © 2026 KIOXIA Corporation. All Rights Reserved. Scans your system for recognised drives, and updates firmware to the latest revision. Usage: kfut --help kfut --version kfut --scan [-i] </pre>
version	-v, --version	Displays the version of SSD FW Updater. Example: <code>sudo kfut --version</code> <pre> mgs@ubuntu:~\$ sudo kfut --version kfut v1.0.1 Copyright © 2026 KIOXIA Corporation. All Rights Reserved. </pre>

Options:

Option	Supported Functions	Description															
-j, --json	scan, help, version	Outputs the display in JSON format on the CLI. This is useful when using automated scripting tools that work with SSD FW Updater. Example: <code>sudo kfut --scan --json</code> <pre>ouga@fowara:~\$ sudo kfut --scan --json [{ "capacity": "1 TB", "error": 0, "fwRevision": "ECFA11.4", "latestRevision": "", "model": "KIOXIA-EXCERIA PLUS G2 SSD", "releaseNotesUrl": "", "serial": "793A280VKK41" }]</pre>															
-y, --yes	update	If this option is not specified, the update function will display a confirmation message asking whether to continue the update, and the update starts only after entering “Y”. Specifying this option allows the update to proceed without keyboard input during the process. This is useful when using automated scripting tools that work with SSD FW Updater. Example: <code>sudo kfut --update <target SSD serial number> --yes</code>															
-l, --log [+]<filename >	All	Outputs log information to a text file. By adding + before the file name, log information can be appended to the end of an existing text file. Example: <code>sudo kfut --scan --log <filename></code> <pre>ouga@fowara:~\$ sudo kfut --scan --log SCN-Log.txt</pre> <table><thead><tr><th>Capacity</th><th>Model</th><th>Serial</th><th>Revision</th><th>Update?</th></tr></thead><tbody><tr><td>1 TB</td><td>KIOXIA-EXCERIA PLUS G2 SSD</td><td>793A280VKK41</td><td>ECFA11.4</td><td></td></tr><tr><td>960 GB</td><td>KIOXIA-EXCERIA SATA SSD</td><td>4393780VKK41</td><td>SBFA16.3</td><td>SBFA16.5</td></tr></tbody></table>	Capacity	Model	Serial	Revision	Update?	1 TB	KIOXIA-EXCERIA PLUS G2 SSD	793A280VKK41	ECFA11.4		960 GB	KIOXIA-EXCERIA SATA SSD	4393780VKK41	SBFA16.3	SBFA16.5
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Prohibited Operations

The following operations are prohibited action.:

- Starting, operating, or executing this tool from multiple consoles at the same time.
- Interrupting the firmware update process. (For example, stopping the command with Ctrl+C, removing the SSD, etc.)

Uninstallation

Uninstall the software according to the procedure for your Linux distribution.

List of Error Messages

SSD Firmware Updater Error Message	When the error message is displayed	Description of error message and how to address
-error-	During the "Update?" item when executing the scan function	The updated firmware information could not be retrieved from the server. Make sure your Linux machine is online.
kfut: Invalid argument "xxxx"	When executing the kfut command	An unsupported argument was specified. Refer to this user guide and the help function to specify the correct action.
kfut: You must specify exactly one action. Use "--help" for help.	When executing the kfut command	Multiple actions were specified. Specify only one action.
kfut: Unknown option 'xxxx'	When executing the kfut command	An unsupported action was specified. Refer to this user guide and the help function to specify the correct action.
kfut: Missing value after 'xxx'	When executing the kfut command	An option or argument required for the action is missing. Refer to this user guide and the help function to specify the correct option or argument.
No drive has serial number "xxxx"	When executing the update function	The SSD with the serial number specified as the firmware update target is not installed in your Linux machine. Check the serial number and specify the correct one.

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