
Kindle + KOREader

A layperson handoff guide

Send books, read PDFs comfortably, connect by SSH, and always return to the normal Kindle interface.

Prepared for this device

Kindle Paperwhite 10th generation (PW4)

Firmware 5.18.1; Sanctuary jailbreak; KPM; KOREader kindlehf

Last observed address: 192.168.1.109; KOREader SSH port: 2222

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1 Start here

The easiest everyday workflow

1. In KOREader, open the File Browser.
2. Find books under `/mnt/us/documents/`.
3. To add books with a cable, exit KOREader first, connect USB, and copy into the Kindle's `documents` folder.
4. To add books over Wi-Fi, start KOREader's SSH server and use the included `send-books-to-kindle.ps1`.
5. To return to Amazon's normal Kindle interface, choose **Exit KOREader**. It does not remove KOREader or the jailbreak.

1.1 What is installed

Component	Purpose
Sanctuary	The jailbreak used on firmware 5.18.1. It installed the modern Kindle package stack.
KPM	Kindle Package Manager. KOREader was installed with <code>;kpm install koreader</code> .
KOREader	The reading application. This device uses the <code>kindlehf</code> build because firmware 5.16.3 and later is hard-float.
SSH server	KOREader's Dropbear SSH server, normally on TCP port 2222. It permits command-line access and wireless file transfer while KOREader is running.

1.2 What KOREader can open

KOREader supports PDF, EPUB, DJVU, MOBI, CBZ/CBT, DOCX, RTF, HTML, TXT, XPS, FB2, PDB, CHM, Markdown, images, and several archive formats. Amazon books can still be read in the normal Kindle interface. KOREader is especially useful for PDFs, technical documents, multilingual material, comics, and sideloaded EPUB files.

2 Moving between KOREader and the normal Kindle

2.1 Enter KOREader

If the native Kindle Home screen is visible, tap the **KOREader** document/scriptlet in the library. KPM launches KOREader with the correct hard-float package.

2.2 Return to the normal Kindle interface

1. Tap near the top edge of the KOREader screen to reveal the top menu.
2. Open the main or hamburger menu.
3. Choose **Exit KOREader**.
4. Wait for the native Kindle Home screen to reappear.

Exit is not uninstall. Your books, settings, highlights, jailbreak, KPM, and KOREader remain installed. Open the KOREader library item whenever you want to return.

2.3 Autostart and the recovery switch

Autostart must always be optional. The safe design for this device uses two marker names at the visible USB root:

<code>ENABLE_KOREADER_AUTOSTART</code>	Allows one KOREader launch after boot.
<code>DISABLE_KOREADER_AUTOSTART</code>	File or folder that overrides the enable marker and keeps the normal Kindle interface.

The final autostart job must wait at least 30 seconds, check the disable marker both before and after the delay, launch only once, and never respawn KOREader. Therefore choosing **Exit KOREader** returns to the normal interface for the rest of that boot.

Current handoff state: autostart is disabled. A first experimental boot hook did not bring networking back reliably. The visible `ENABLE_KOREADER_AUTOSTART` marker was removed and `DISABLE_KOREADER_AUTOSTART` was created. Do not remove the disable marker until the replacement KMC-based hook has been installed and tested.

3 Send books by USB cable

USB is the simplest and most reliable method.

1. In KOREader, choose **Exit KOREader**.
2. Connect the Kindle to the computer with a data-capable USB cable.
3. Open the drive named **Kindle**.
4. Open the `documents` folder.
5. Create a clear folder such as `documents/Books` OR `documents/LinguaLeaf/en-main-blackwhite`.
6. Copy the book files into that folder.
7. Use Windows **Safely Remove Hardware / Eject** before unplugging.
8. Open KOREader and browse to the same folder.

KOREader may not expose normal USB mass storage while it controls the screen. If the Kindle drive does not appear, exit KOREader and reconnect the cable.

3.1 Books placed on this Kindle

The following five bilingual black-and-white PDFs were copied into `/mnt/us/documents/LinguaLeaf/en-main-blackwhite/`:

- A Game of Thrones
- A Clash of Kings
- A Storm of Swords
- A Feast for Crows
- A Dance with Dragons

3.2 Keep sidecar folders when backing up

KOREader commonly stores per-book progress, highlights, notes, and settings in a neighboring folder ending in `.sdr`. When moving or backing up an annotated book, copy both the book and its matching `.sdr` folder.

4 Recommended: use Kindle Book Sender

For a layperson, the easiest method is the free Kindle Book Sender desktop app:

<https://lachlanchen.github.io/Kindle/>

The website automatically recommends the correct download for Windows, Ubuntu/Linux, or macOS. The app removes the need to find an IP address, type SSH commands, or choose between SFTP and SCP.

4.1 One-time pairing

1. Download and open Kindle Book Sender from the website.
2. Connect the running-KOREader Kindle to the computer with a USB data cable.
3. The app recognizes a drive containing both `documents` and `koreader`.
4. It creates a new RSA key for that computer and installs only its public key on the Kindle.
5. Safely eject and unplug the Kindle.

The app-generated private key stays in that computer's user application-data folder. It is separate from the handoff key embedded later in this PDF and is never included in public downloads.

4.2 Every wireless transfer after pairing

1. Put the Kindle and computer on the same trusted Wi-Fi.
2. Open KOREader, then start **Tools > SSH server**.
3. In the app, click **We're on the same Wi-Fi – Find my Kindle**.
4. Drag books into the app or choose them with the file picker.
5. Click **Send books**.

The app checks the previously verified address first, then scans only active private local networks on port 2222. A candidate is accepted only after key authentication and confirmation that `/mnt/us/koreader` exists. Books are placed in `/mnt/us/documents/Books`; SFTP is used when available and SCP is selected automatically as a fallback.

4.3 Platform notes

- **Windows:** open the downloaded `.exe`. If SmartScreen appears, choose **More info**, then **Run anyway**.
- **Ubuntu/Linux:** extract the archive, allow the application file to run as a program, then open it.
- **macOS:** choose Apple Silicon or Intel on the website. Because the community build is not notarized, Control-click the app and choose **Open** the first time.

If automatic discovery does not succeed, repeat USB pairing, confirm the same Wi-Fi and running KOREader SSH, or enter the Kindle IP in the optional address field. The manual SSH method below remains available for diagnosis and recovery.

5 Send books over Wi-Fi with SSH

5.1 Before connecting

1. Connect the computer and Kindle to the same trusted Wi-Fi network.
2. Open KOREader on the Kindle.
3. Open the top menu, choose **Tools**, then **SSH server**.
4. Start the SSH server and keep KOREader open while transferring.
5. Note the Kindle's IP address. This guide uses `192.168.1.109` as an example; DHCP may assign a different address later.

KOREader's SSH service uses port **2222**, user **root**, and the dedicated key supplied with this package. It is separate from ordinary Windows Remote Desktop and from port 22.

5.2 Open a shell from Windows

Open PowerShell in the Handoff folder and run:

```
.\connect-kindle.cmd 192.168.1.109
```

The equivalent manual command is:

```
ssh -i .\keys\kindle_handoff_rsa -p 2222 root@192.168.1.109
```

The first connection may ask whether the host key is trusted. Confirm only after checking that the address belongs to your Kindle on your own local network.

5.3 Send books wirelessly

Use the supplied PowerShell helper:

```
.\send-books-to-kindle.ps1 -KindleIp 192.168.1.109 "C:\Books\Example Book.pdf"
```

To send several books, add each full path as another quoted argument. The helper creates `/mnt/us/documents/Books` if needed and uses legacy SCP mode for compatibility with KOREader's Dropbear SSH server.

5.4 Manual SCP command

```
scp -0 -i .\keys\kindle_handoff_rsa -P 2222 "C:\Books\Example.pdf" root@192.168.1.109:/mnt/us/documents/Books/
```

SSH uses lowercase `-p`; SCP uses uppercase `-P`. The `-o` option selects the older SCP transfer protocol supported reliably by this Kindle setup.

5.5 Use WinSCP instead of commands

For drag-and-drop transfer, create a WinSCP site with:

Setting	Value
File protocol	SFTP first; if unavailable, select SCP
Host name	Kindle IP, for example 192.168.1.109
Port number	2222
User name	root
Password	Leave empty
Private key	Handoff\keys\kindle_handoff_rsa
Remote folder	/mnt/us/documents/Books

If WinSCP reports that SFTP is unavailable, change the protocol to **SCP**. It is acceptable to let WinSCP convert this dedicated key to PPK format.

6 Where files live

Kindle path	Purpose
/mnt/us/documents/	Books visible to the native library and KOREader
/mnt/us/documents/Books/	Recommended general KOREader book folder
/mnt/us/documents/LinguaLeaf/	Current LinguaLeaf collection
/mnt/us/koreader/	KOREader application; do not casually rename or delete
/mnt/us/koreader/settings/	KOREader preferences and SSH settings
/mnt/us/koreader/settings/SSH/authorized_keys	Public keys allowed to log in
/mnt/us/DISABLE_KOREADER_AUTOSTART	Safety marker preventing automatic launch
/mnt/us/ENABLE_KOREADER_AUTOSTART	Future opt-in marker; do not create until a safe launcher is tested

The USB drive letter, such as `F:`, is selected by Windows and can change. The Linux path `/mnt/us` always means the user-visible Kindle storage.

7 Everyday KOReader use

7.1 Open menus and books

- Tap near the **top edge** to open KOReader's top menu.
- Tap near the **bottom edge** to open reading controls.
- In the file browser, enter `documents`, then tap a book.
- Tap the left or right side to move backward or forward.
- Long-press text for highlighting, dictionary lookup, search, or notes.

7.2 Make a PDF easier to read

1. Open the bottom reading menu.
2. Choose a crop mode to remove white margins.
3. Try **Fit width** for ordinary single-column pages.
4. Rotate to landscape when the page is too wide.
5. For text-heavy PDFs, enable **Reflow** so KOReader rearranges text to fit.

Reflow works best when the PDF contains a real text layer. A scan made only from page images may need OCR first. Reflow can disturb tables, equations, footnotes, and complex layouts; turn it off for those pages.

7.3 Useful PDF controls

- **Crop**: removes margins and enlarges print.
- **Fit width**: fills the screen horizontally.
- **Columns**: reads multi-column pages in sequence.
- **Landscape**: gives wide pages more space.
- **Contrast**: darkens faint scans.
- **Dewatermark**: can reduce pale backgrounds.
- **Auto-straighten**: corrects tilted scans.
- **Panel zoom**: helps with comics and image panels.
- **OCR**: supports selection or lookup from image text where available.

7.4 Rotate the screen

Open the reading menu and choose the rotation or orientation icon. Select portrait or landscape. Rotation is stored per book.

7.5 Highlights, notes, and dictionaries

- Long-press and drag across text, then choose **Highlight** or **Add note**.
- Use the bookmark control to mark the current page.
- Use the table of contents, page search, or text search from the top menu.
- Long-press a word for dictionary lookup after dictionaries are installed.
- KOReader stores progress, highlights, and book settings in a nearby folder ending in `.sdr`. Back up each book together with its `.sdr` folder.

Other features include adjustable typography for reflowable books, night mode, warm-light controls when supported, reading statistics, gestures, profiles, collections, OPDS catalogs, Wallabag, calibre wireless access, and cloud-storage plugins.

8 Return to the normal Kindle system

8.1 Normal exit

1. Tap the top edge to open KOREader's menu.
2. Open the main or tools menu.
3. Choose **Exit KOREader**.

This returns to Amazon's native Kindle interface.

8.2 If KOREader is unresponsive

Hold the power button until the device restarts; this can take roughly 40 seconds. Because automatic launch is currently disabled, the Kindle should return to the native interface.

8.3 Recovery marker

While the Kindle is connected by USB, ensure this file or folder exists at the top level of the drive:

`DISABLE_KOREADER_AUTOSTART`

Remove `ENABLE_KOREADER_AUTOSTART` if it exists. A safe future launcher must always let the disable marker override the enable marker.

9 Dedicated handoff SSH key

This package contains an RSA 3072-bit key pair made only for this Kindle:

Item	Value
Private key	Handoff\keys\kindle_handoff_rsa
Public key	Handoff\keys\kindle_handoff_rsa.pub
Comment	AgInTi-Flow-Kindle-Handoff-ONLY
Fingerprint	SHA256:Q/RgMY4wzHjQYuC3sfHDykwp8ejp9C7wyfAZLE80MJE
Private-file SHA-256	D278BB1D9BB278371B4CFD162C4F6139F64D7AD079584F560B6CED57F4DF3B50
Passphrase	None, for simple appliance-style access

The public key is in KOREader's SSH authorization file. The private key is not a default Windows SSH key; supplied commands select it explicitly with `-i`.

9.1 Important warning

This private key is intentionally exposed in this PDF. Use it only for this Kindle. Never authorize it on Windows, Linux computers, servers, routers, GitHub, cloud accounts, or another device. Anyone holding this PDF can access the Kindle whenever KOREader SSH is running and reachable.

Copy the private-key file to a trusted computer only when its user should control this Kindle.

9.2 Install the public key again over USB

`.\install-public-key-usb.ps1`

The helper locates the mounted Kindle and appends the key only if it is absent.

9.3 Revoke this key

Open `/mnt/us/koreader/settings/SSH/authorized_keys`, delete the line ending in `AgInTi-Flow-Kindle-Handoff-ONLY`, then restart KOREader's SSH server. Deleting one copy of the private key does not revoke other copies; removing the public-key line does.

9.4 Embedded private key

Below is the complete Kindle-only private key. Prefer the separate file because copying from a PDF can alter characters or line endings.

```
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktZjEAAAAABG5vbmUAAAAAEm9uZQAAAAAABAAABlWAAAAAdzc2gtcn
NhAAAAAAwEAAQAAAYEA2neq13LIZ1mylv02fc9o18QMvzemiQMYR1m101hPXpu+n8yC+Kry
Mu10nSPkT/pv/jiF02YUPFGNcPCefU3dg1GyFJx+D3DpCwacINK4EtK/E2VhMmB9e2fsXT
0zDOYTC3g0S41JyD3uiHHPJKhcFN8hf0QZ6CS+KTj1BbjHb9hNlmeckKj4ML2nUG+qX
/ipsUvyIkQzQuCEf2uyxqPL+TePpGdnSXNY1XkRKfMr1fkWVA251kXFzs2qn9VPALBQf
jf4tktcA1Mu6yak7z0FNBbbGJw932R9Jx3h/NrA6TskZaBGGSaDBVC7eFNwE+yKeeechMM
W+s+JFqG3SXjAwX8x8GHRyW7ZVE3AR+c3Gmd3nfiE+AOu1aVQxGgO6Tbs8IrmxbxQgRCMu
G+vwja28p0Coh4y7P5KUCUI7GerjSD8R7Qfb050H2dym2TUEySU0FNqSjyvE4hMDJD0sW3
vb0hjUsUkNvBZz1IpSCwtLFtaDnERuoEXksK1nC9AAAFmBxxvxEcb8XAAAAAB3NzaC1yc2
EAAAGBANp3qtdyM9Zsp9Nn3PaNfEDL83poqjGEZ2pdNYT16bvp/Mgviq8jLpTp0qSrF6
VF44hdNmFDxRjXDwnn1N3YNRshScfg9w6QsGnCD5uBL5vXnLYTJgfXtn7F0Zswjme3N4N
EuNscg897ohxzySoXBTfIX4TkGegkvik49QW4x2/YTS5nnICo+DC9p1Bvq1/4qbFL8iJEM
0LnBbDrssasTy/k3j6RnZ01zV2JV5ESnzK5X5MFQNuZZFxc7Nqp/VTwCwUH43+LZLXANTL
usmp089BTQW2xicPd9kfScSYfzawOk7Cs2gRoEmgwVQ3hTcBPSinnnnITDFvrP1Raht01
4wMMfMFBh62Fu2VRNwEfnN4DHd534hPgDrpW1UMRoDuk27PCK5128UIEQjLhvsL42tvKdA
qIeMuz+S1HFC0xnq40g/Ee0BWzudB9ncptk1BMk1NBtako8rxOITAyQ9LFt729IY1LFJDb
wWc9SKUgrSxbWg5xEbqBF5LctZwvQAAAAABAAEAAAGAKAYSrCw2OEFzaJGRZ964sBmyDG
pB18CMC11hDa+SQgkTCEfm2B102yHbWN8NK5HP/w0rhie5x94MRvG4ZU8I4dYb5w61gibMW
2oFCFoFV19EdmEcFhqMa1QJA72vBwJiwmnSbXYWfoHwJwf82cVBGAMXFZD31NAfmEAY+Kb
hH1wgUVPVmvMrvn14A2LEmPMQ2gb/4ssFuD6kPybngseHZ5TF6+2H6Qm9sI3aXvC1/wQ70
WHBtLeVq8fMeEdG6FDr93JF91tgNTrxfixIq+jrjX3qNwXSh5MhGoNnsq7kiY0Yga80km
ESYf3jyRTLGF3X1KMN88NtViox4NSuBU+EKrasEmXqo1GFAXA5ibTtOUK+KvXxDSYnczkrG
SNPffT0P/CCCTGC68vtpo3AXoc8rWEUvGAF0yQ0FTQwEtX0zTa3Yf1j7JnLzmOX7FEdSR
1HqMfAXL4A9WhqYueABylbMX1ImH0CC+TqvTGM8p5xhnyAyktFBNSAcoJZuqMkQ3BAAAA
wGmplW11+1GoNQCZksCj32gYn3deNGGduwNZmkID1EXdTHN1f5p5A1Wg8p0JtB5H8UBj8R
xd3IKITDPOjEaKQqvsNvdqApfTKOhnAabN8owDS9wEJKF4VEZSLVJLaDHRfBg85wvkU61D
bRVB3hV7d+KXyrGmNPLW0XMs0nEX8x1WnuV3ysyh9BXef+vjpPyKR8bIQ1UimUg1DeQ07
1EMwEC1ZV56QIMKUAR9R24X9vCDUYPXot58cB39++TyW0vqAAAAAMEA+GGadzYQQ0010+aR
jq1kNc3r9gX9fESBznfM0ZGw6G8B5gYAEftqhn/Y62X+icwUXq3ZZ8/B/YowwP4EGC15d0
6hkp+8HHCAKUzyJm1d/rngBT9Ck+mnkaodGjxhcQUOT/UBu5Fj1Rq0dnGg2tMBDTcdp5rV
Gp8fKpA0CypZMRncytNws8vc/umIt06rmR4z2d15M/7D1I0KgVcOH2zP/nX5XeJnyOuqEN
D3D+hXk1aR019paW5Woeu2F9K1I5N1AAAAAwQDhKyr3ET44e+X51y19N9deG8mjzLQpSmID
1CuLE7zRmRJ/VwXe4BJ9fZIA0nE3yGpg1yU1PovG3M9HFpCmePXUSROIFGuwVUPkk/L03
bne82CvkdutM/iUKf4dBpPAVsrw+L7HABVSD/a89CrdNZiJQ1yWnNRszDdxhrQvBtsb2vR
D6AbewTzzjOPGn70C0+9abm0stAD27cy9Ji00FdroKuM8IGXwjC6beGqOvtEpgv6I5bJr
A2t1h1p6krVyKAAAAfQWdJb1RpLUZsb3ctS2luzGx1LUhhbmRvZmYtT05MMQECAwQ=
-----END OPENSSH PRIVATE KEY-----
```

10 Troubleshooting

Symptom	Action
Connection timed out	Confirm the same Wi-Fi, current IP, running KOReader SSH, and port 2222.
Connection refused	Start SSH from KOReader and keep KOReader running.
Permission denied	Select the key with -i; reinstall its public key over USB if needed.
Host identification changed	Verify the device first, then run ssh-keygen -R [192.168.1.109]:2222.
SFTP unavailable	Use SCP in WinSCP or add -o to scp.
Book missing	Put it under documents, eject safely, then refresh the file browser.
PDF text tiny	Crop, fit width, rotate to landscape, or try reflow.
Bad reflow	Disable it and use crop, landscape, columns, or OCR.
Need native Kindle	Exit KOReader; if stuck, reboot and retain the disable marker.

11 Safe maintenance

- Keep airplane mode on when network access is unnecessary.
- Safely eject the Kindle in Windows before unplugging USB.
- Do not delete jailbreak preservation files, koreader, KUAL/KPM components, or unfamiliar top-level files.
- Back up documents, KOReader settings, and all .sdr folders before major changes.
- Do not install Amazon firmware until its jailbreak compatibility is checked.

- Stop KOREader SSH after wireless administration.

12 Package contents

File	Purpose
kindle-koreader-handoff.pdf	Printable guide
kindle-koreader-handoff.tex	XeLaTeX source
connect-kindle.cmd	One-command Windows SSH
send-books-to-kindle.ps1	Wireless book transfer
install-public-key-usb.ps1	Idempotent public-key installer
ssh-config.example	Optional SSH alias template
build-guide.ps1	Rebuilds this PDF
keys/kindle_handoff_rsa	Kindle-only private key
keys/kindle_handoff_rsa.pub	Matching public key

13 References

- KOREader User Guide: https://koreader.rocks/user_guide/
- KOREader source: <https://github.com/koreader/koreader>
- KindleModding KOREader guide: <https://kindlemodding.org/jailbreaking/post-jailbreak/koreader.html>
- Sanctuary documentation: <https://kindlemodding.org/jailbreaking/Sanctuary/>
- AgInTi Flow: <https://flow.lazying.art>
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