Kindle Fire (FireOS) (Operating System) battery documentation

This document goes over general documentation of my experience with battery performance and activity while using a Kindle Fire (system version: kindle 6.3.4_user_4132720 (2015)) the device is still active as of 2021 Monday December 27th

Kindle fire

By: Amazon.com (company)

RTM (Release to Manufacturing): ???

Type: eBook reader/Tablet Computer

Storage capacity: 8 gigabytes

RAM: either 512 megabytes or 1 gigabyte

Internet enabled: true

Requires Internet to use: false

Operating system family: Linux, FireOS

Package manager: APK (Android Package)

Derivative: Android (Linux operating system by Google LLC)

Price: ???

Model: ???

CPU: ???

GPU: ???

Size: ??? inches (??? centimeters)

Screen resolution: either 720p or 1080p

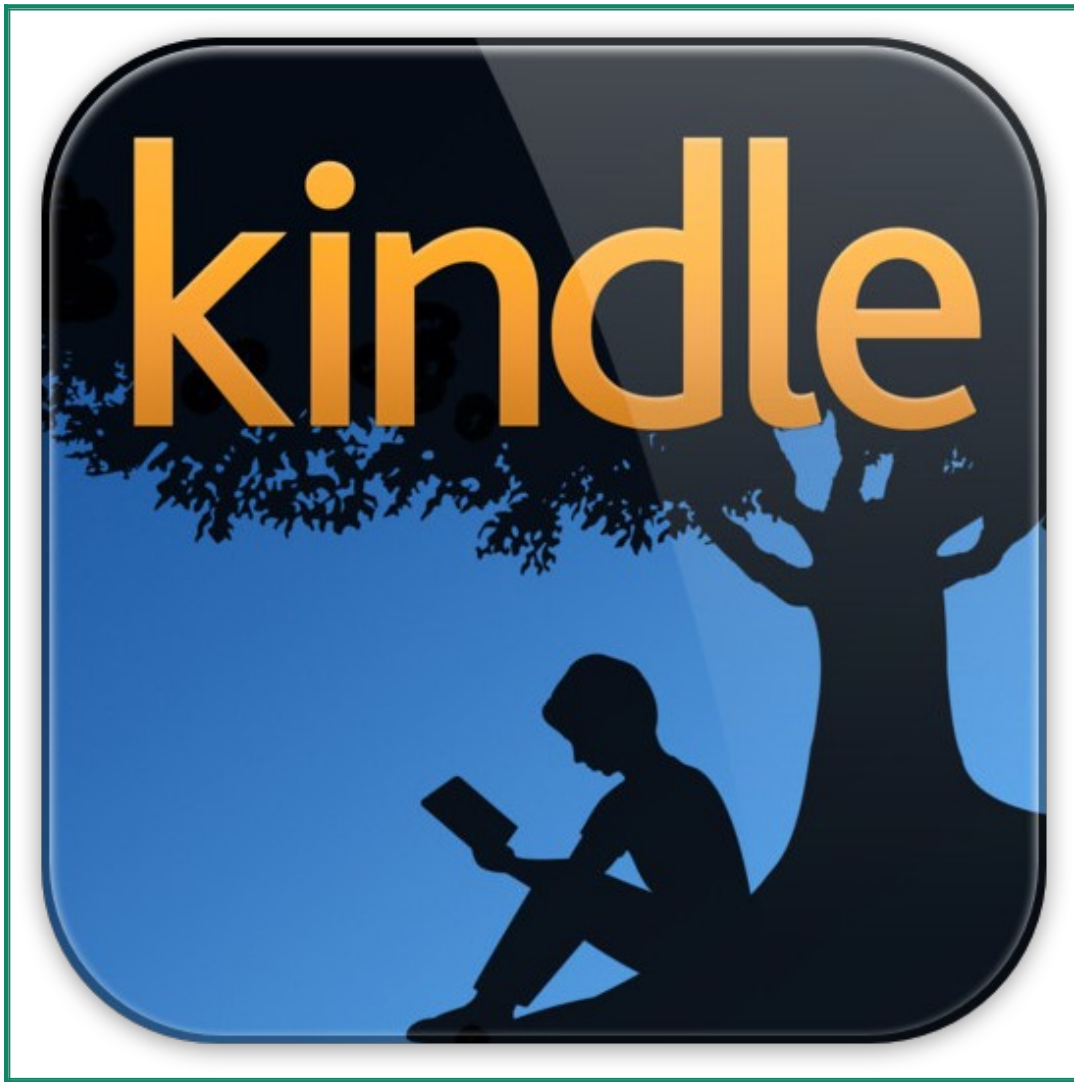Kernel type: Monolithic

License: Proprietary

Kernel: Linux v???

Touchscreen: true

Default book format: DAISY/MOBI

Alternative book formats: EPUB, PDF

Operating system cost: Unknown

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1) The Kindle Fire is a system where you can only view the battery percentage at the lock screen (needs confirmation)
2) The Kindle Fire gives a low battery warning at ???% battery (needs data)
3) It takes ###:##:### to charge a Kindle Fire from % to % (needs data)
4) This version of FireOS shows a green battery for the whole time it is charging, unlike modern Android, which only shows it when it is fully charged
5) Unfortunately, you cannot easily take the battery out of the Kindle and put another one in
6) the location of the battery on the screen is in the top right
7) When the battery is not green, it is white (unless it is low [needs confirmation])
8) The Kindle Fire uses a Lithium Ion battery
9) Reading books drains the battery the least [needs confirmation]
10) Playing games like Minecraft drain the battery the fastest [needs confirmation]
11) The capacity of the Kindle Fire battery is 3200 MaH [Needs confirmation]
12) The Kindle fire has a very good battery (source: owned the device since 2012/2013/2014, still works really well, with very little max capacity loss
13) No other documentation available

Other important battery advice

For Lithium Ion batteries

1) Lithium batteries degrade over time. Do not buy a replacement battery while your current battery is in perfect health, as the backup battery will degrade/rot in storage, then by the time you need to use it, it will not work very well/at all.

2) Based on general advice, it is recommended to not let your battery drop below 20% and not charge above 80% this is best for the batteries health. If you can't follow the step of stopping every charge at 80%, you can at least plug your device in when it gets low (for example: lately, always plug mine in at 23-29% battery)

3) MacOS 11.0 (Big Sur) and subsequent versions (MacOS 12.0 Monterey) have a built-in feature to limit battery discharge at 20% and battery charge at 80%. I don't know of any other operating system that forces this rule (Ubuntu says it does, but it actually doesn't, as I have used my device with less than 11% battery before)

General battery advice

DO NOT use your phone while it is plugged into a cable charger. Take it from me. I have destroyed the charging port on 6 different devices by using it while plugged in in less than 6 months per device. Also, be careful using a cable charger as well. I prefer wireless charging when available, and nowadays, it is mandatory for my cellular devices, as my Samsung Galaxy S20 FE 5G got a destroyed charging port in less than 4 months.

DO NOT hard power cycle your device UNLESS completely necessary (completely unresponsive, softlocked) (hard power cycle means holding the power button down for 10 seconds, or removing the battery while the device is running) as this damages the software running and can cause corruption.

No other info available at the moment

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