
Radxa eMMC/UFS Module Reader

High speed eMMC/UFS Module Reader

Revision 1.6

2025-04-28



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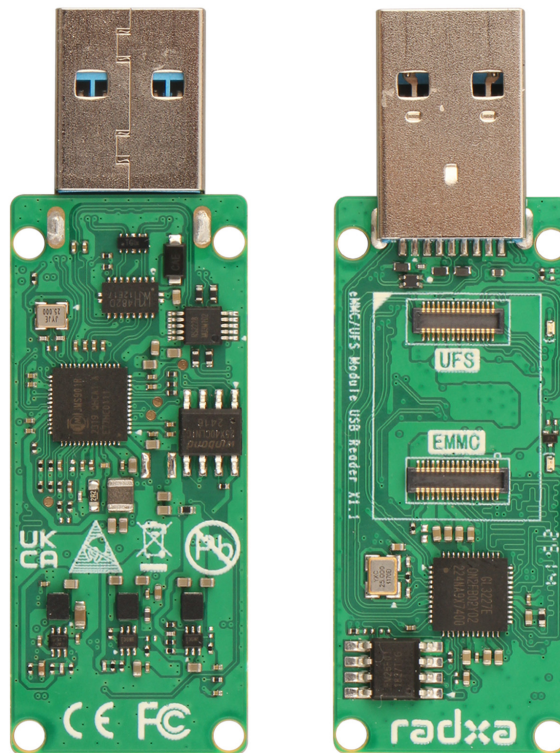
1 Revision Control Table

Version	Date	Changes from previous version
1.4	10/05/2023	Updated product compatibility information and interface specifications
1.5	27/06/2024	Added UFS 2.1 support details and expanded technical specifications
1.6	2025/04/25	Change PDF fonts to avoid CJK characters

2 Introduction

The Radxa eMMC/UFS Module Reader is a USB adapter specifically designed for Radxa eMMC and UFS storage modules. It allows users to directly read and write data on these modules via a PC, making it easy to flash operating system images for Radxa SBCs and quickly boot up the system.

With support for high-speed USB 3.0, the reader can also be used as a high-performance USB flash drive when paired with an eMMC or UFS module—ideal for both development and everyday portable storage needs.



3 Features

- Direct read/write support for Radxa eMMC and UFS modules
- Easily flash Linux/Android OS images from PC to boot Radxa SBCs
- High-speed and stable data transfer with USB 3.0 interface
- Plug-and-play compatibility with Windows, Linux, and macOS
- Functions as a high-speed USB flash drive when used with storage modules

- Supports detection of both eMMC and UFS modules
- Compatible with eMMC v5.0; supports 1-bit, 4-bit, and 8-bit data buses, including High Speed SDR, High Speed DDR, HS200, and HS400 modes
- Supports UFS 2.1, dual-lane Gear 3 interface
- Dual-connector locking mechanism ensures secure and stable connection for eMMC/UFS modules
- Supports Radxa eMMC modules up to 128GB and Radxa UFS modules up to 1TB
- Compatible with eMMC modules from Odroid and PINE64
- Fully supports GPT partition tables and firmware-level access

4 Specifications

Specification	Details
Product Model	RA019
Interface	USB 3.0 Type-A
Transfer Speed	Up to 5.0 Gbps
Dimensions	60mm × 25mm × 10mm
Weight	Approximately 15g
Power Supply	USB bus-powered (5V)
Operating Temp.	0°C to 60°C
Supported Modules	Radxa eMMC Module, Radxa UFS Module, Odroid eMMC Module, PINE64 eMMC Module

5 Availability

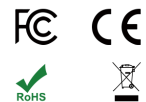
Radxa guarantees availability of the Radxa eMMC/UFS Module Reader until at least September 2035.

6 Support

For support, please see the support documentation section of the [Radxa Website](#) and post questions on the [Radxa Forum](#).

7 Trademark Acknowledgments

- **USB** is a trademark of USB Implementers Forum.
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**Note:**

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