

# Samsung USB Flash Drive: Type-C™ Lineup

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2024 Data Sheet

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Revision 1.2



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## 1. INTRODUCTION

Samsung's UFD (USB Flash Drive) is a USB 3.2 Gen1 mass storage media that provides remarkable performance, outstanding reliability and minimalistic design in anticipation of tomorrow's memory needs. Samsung's UFD assorted high capacity and performance can store the data that the user wants to keep safely and quickly. For an easy adoption, Samsung's UFD is operable with modern operation systems such as Windows, Mac OS, Linux and other systems. And it is compatible with any device that uses a USB-C & USB-A Port. It also supports backward compatibility with USB 3.0 and USB 2.0.

## 2. PRODUCT LINEUP

Lineup	Design Option	Density	Model Name
Type-C™	Standard	64GB	MUF-64DA
		128GB	MUF-128DA
		256GB	MUF-256DA
		512GB	MUF-512DA

## 3. PRODUCT FEATURE

- Compliance with USB 3.2 Gen1 Specification
  - Bus Speed supports Super Speed mode (Up to 5Gbps)
  - Compliant with USB Mass Storage Class Specification
- Backwards Compatibility
  - Compatible with USB 3.0 and USB 2.0 systems
  - Bus Speed supports High Speed and Full Speed mode
- Dimensions
  - 33.7mm X 15.83mm X 8.2mm, Approx. 3.4g
- Performance
  - Read speed up to 300MB/s(64GB) and 400MB/s(128GB~512GB)
- Multi-proof
  - Shock, Temperature, Water, Magnetic, X-Ray
- System Requirements
  - Windows 11, Windows 10, Windows 8, Windows 7, Windows Vista, Windows XP, Windows 2000
  - Mac OS ver. 10.4 or later
  - Linux ver. 2.4 or later
  - Android 4.0 or later
- Support Plug and Play function

## 4. PRODUCT PERFORMANCE

Density	USB Interface	Sequential Read	Sequential Write
64GB	USB 3.2 Gen1	Up to 300 MB/s	Up to 30MB/s
128GB	USB 3.2 Gen1	Up to 400 MB/s	Up to 60MB/s
256GB	USB 3.2 Gen1	Up to 400 MB/s	Up to 110MB/s
512GB	USB 3.2 Gen1	Up to 400 MB/s	Up to 110MB/s

Performance measurement is based on Samsung's internal testing conditions.  
The read/write speed may vary among different host devices and testing conditions.

## 5. USER CAPACITY

Density	User Capacity
64GB	64,157,122,560
128GB	128,315,424,768
256GB	256,632,029,184
512GB	513,266,155,520

Product user capacity is measured on Windows 7 with FAT File system.  
User capacity can be different depending on the OS and PC environment.  
1GB=1,000,000,000 bytes. The actual usable capacity may be less than the labeled capacity.

## 6. PHYSICAL SPECIFICATIONS

Specifications	
Dimensions (L X W X H)	33.7 X 15.83 X 8.2 (mm) / 1.33 X 0.62 X 0.32 (in)
Weights	Approx. 3.4g / 0.12oz
EMC Certifications	KC, FCC, CE, VCCI, RCM, BSMI
Warranty	5 years limited <sup>1)</sup>

1) For more detailed warranty information, please visit [www.samsung.com/support](http://www.samsung.com/support).

## 7. REGULATORY COMPLIANCE



## 8. Multi-Proof Features

Items	Conditions
Water-proof	Up to 72 hours in the up to 1 meter depth, 3% NaCl salt water
Temperature-proof	Operating temperatures of 0°C to 60°C (32°F to 140°F), Non-operating temperatures of -10°C to 70°C (14°F to 158°F)
X-Ray-proof	Up to 100mGy, equal to airport X-ray machines, 210secs
Magnetic-proof	Magnetic field equivalent of a high-field MRI scanner (Up to 15,000 gauss, 30secs)
Shock-proof	Up to 1,500 G (gravitational acceleration), Shock times : 6 times, Pulse duration : 0.5ms (*512GB : Up to 50G, 11ms, 6times, 3axis)

The multi-proof testing results reported herein were obtained under strictly controlled lab environment, as more fully described in the respective footnote for each test. Any attempt to replicate such results are not covered under Samsung's warranty program and Samsung disclaims any and all liability with respect to damages resulting from such attempts, including without limitation, damage to product, loss of property, or loss of data. For more information on Samsung's warranty policy, please visit: [www.samsung.com/support](http://www.samsung.com/support).

## 9. REVISION HISTORY

Revision Number	Description	Revision Date
1.0	Initial Release	March 2024
1.1	Adding EMC Certification	March 2024
1.2	Modifying Multi-Proof conditions	August 2024