

SOSAM UHS-I U3 V30 A2

256GB TF Card

Datasheet Ver1.0

I.Product Description

This 256GB UHS-I TF memory card utilizes a high-performance controller and 3D TLC NAND flash. It is designed to deliver reliable, high-performance storage for applications such as 4K video recording, high-resolution photography, mobile devices, and other demanding consumer electronics. Having passed comprehensive validation—including capacity, speed, compatibility, and integrity tests—this card ensures stable operation for continuous recording and high-speed data transfer.

II.Key Specifications

Item	Specification
Part Number	KMTUAF2565S2P2C
Product Model	TF Card
Controller	SA3309
Flash Type	3D TLC NAND
Flash Memory	SSV8
Interface Standard	TF card, UHS-I
Speed Class	Class 10, U3, V30, A2
Nominal Capacity	256 GB
Available Capacity	≈ 233 GB (exFAT formatted, based on H2testw)
File System	exFAT (Default)
Performance (Verified)	Sequential Read up to: 166 MB/s
	Sequential Write up to: 155 MB/s
Dimensions	15.0 × 11.0 × 1.0 mm (Standard TF card)
Test Result	All tests PASS, 100% yield.

III.Detailed Performance

Note: Data derived under standard test conditions. Actual performance may vary by host device, interface, and file type.

3.1 Sequential Performance

Test Tool	Read Speed	Write Speed
CrystalDiskMark (Seq Q32T1)	up to 166 MB/s	up to 155 MB/s
ATTO Disk Benchmark (64MB)	up to 156 MB/s	up to 151 MB/s

3.2 Sustained Write & Integrity Verification

Test Item	Tested Performance	Description
H2testw Full Write & Verify	Read: up to 169 MB/s	Verifies true capacity, data integrity, and confirms no bad blocks. Tested with 238.6 GB data.
	Write: up to 130 MB/s	

IV.Compatibility &Reliability

4.1 Compatibility

- Operating Systems:Windows, Linux, macOS, Android.
- Supported Devices: Digital cameras, dash cams, surveillance systems, drones, smartphones, tablets, gaming devices, and other digital accessories.

4.2 Reliability Verification

This product has passed strict reliability verification to ensure data security and long-term stable operation.

Test Item	Condition / Cycles	Result
High-Temperature Storage	85°C for extended duration	PASS (Full function verified)
Sustained Read/Write Test	Multiple full-capacity cycles	PASS (Stable performance)
Full Capacity & Integrity Check	H2testw full verification	PASS (Genuine capacity, no bad blocks)
Multi-OS & Device Compatibility	Various hosts and OS	PASS (Normal detection, format, R/W)

V.Important Notes & Disclaimer

1.**Performance**: Rated speeds are maximum values obtained under ideal lab conditions; actual sustained speed may vary depending on the host device, interface, usage conditions, file size, and system status.

2.**Capacity**: Nominal capacity is defined using the standard 1GB = 1,000,000,000 bytes. The actual formatted capacity available to the user is less due to file system overhead and may vary by host device.

3.**Usage**: It is recommended to format the card on your host device before first use to ensure optimal compatibility and performance.

4.**Warranty**: Specific warranty terms are provided by the brand or authorized supplier.

This datasheet is based on test data of engineering samples. The manufacturer reserves the right to update specifications and revise documents without prior notice.

For More Information

For Technical Support:

If additional support is needed, please visit the SOSAM Web site at www.kumi2020.com for the following topics:

- **Warranty Services:** Includes the warranty service policy and the RMA requestforms.
- **Technical Information:** Includes product data sheets and various USB whitepapers.
- **Tools Section:** Includes frequently asked questions (FAQs).