

PRODUCT INFORMATION NOTICE

1. TITLE ERRATUM; UT81NDQ512G8T NAND Good Blocks not erased on indicated prototype lot.		2. DOCUMENT NUMBER SPO-2025-PIN-0003	
		3. DATE (Year, Month, Date) 2025, DEC, 22	
4. MANUFACTURER NAME AND ADDRESS FRONTGRADE TECHNOLOGIES 4350 CENTENNIAL BOULEVARD COLORADO SPRINGS, COLORADO 80907-3486		5. MANUFACTURER POINT OF CONTACT NAME Mike Leslie	
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8. CAGE CODE 65342	9. BLANK	10. PRODUCT IDENTIFICATION CODE QS34	11. BASE PART UT81NDQ512G8T
12. BLANK		13. SMD NUMBER NA	14. DEVICE TYPE DESIGNATOR NA
		15. RHA LEVELS NONE	16. QML LEVEL NA
		17. NON QML LEVEL Prototype	18. GIDEP NUMBER GB4-PC-2026-0001

1. Description of Issue

Frongrade has identified that UT81NDQ512G8T-BP QS34AAD2JENAA prototype lot date code 2124 Frontgrade lot code 3PFI NAND flash memory devices were intended to be shipped in a fully erased state. Due to a manufacturing process deviation, the aforementioned lot was processed **without a final erase operation**. As a result, **valid (good) blocks may contain residual data** at the time of customer receipt.

2. Impact

- Data may be present in good blocks upon initial power-up.
- The contents are undefined and must not be assumed to be erased (all 1s).
- This condition does **not** affect: Device functionality, Reliability, Endurance, Bad block markings

3. Affected Conditions

- Only devices shipped under the affected lots/date codes are impacted.
- Factory-marked bad blocks mark 00h in byte location 16,384 remain correctly identified and are not impacted by this issue.

4. Customer Action Required

Customers should **perform a full erase operation** on all usable blocks prior to first use of the device.

Recommended actions:

- Execute a block-by-block erase of all non-bad blocks during system initialization or manufacturing programming.
- Do not rely on power-up state to indicate an erased condition.
- Verify erase completion per standard NAND erase-verify procedures.

5. Workaround

No hardware workaround is required. A standard NAND erase operation fully resolves the issue.

6. Customer Notification

This erratum is provided for information and to ensure correct system initialization. No further action is required once the erase procedure is applied.

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