Grade Selection Tool

Industrial Grade	Industrial pSLC	Industrial MLC	Industrial 3D	Consumer
SLC NAND	**pSLC NAND**	**MLC NAND**	**INDUSTRIAL 3D TLC NAND**	**TLC NAND (non-industrial 3D)**
Single Level Cell 1 Bit/Cell	Pseudo SLC MLC in 1-Bit/ Cell Mode	Multi Level Cell 2-Bit/Cell	Tri Level Cell 3-Bit/Cell	Tri Level Cell 3-Bit/Cell

PRODUCTS OFFERED BY CACTUS TECH ←

NAND Geometry (aka Trace Width) Memory Manufactured

| 32nm | 24nm | 15nm | 15nm | 1xnm | 1xnm |

Endurance Cycles (aka Write Cycles) of Physical NAND Memory Blocks

| 70,000 | 60,000 | 20,000 | 3,000 | 3,000 | 1,000 |

Write Abort / Cell Cross Talk / Read Disturb / Data Corruption / Data Retention

Extreme Reliability & Long Life Cycles

KIOXIA INDUSTRIAL -40C to 85C Operation

Lowest Cost, Limited Life & Reliability

Largest SLC NAND Geometry → *HIGHEST RELIABILITY*

Smaller NAND Geometry → Smaller cell size & more bits/cell → Less space between Bits → *LESS RELIABILITY*

Cactus® Technologies