

innodisk

DATA
INTELLIGENCE



EXPERIENCE DURABILITY

ULTRA iSLC TECHNOLOGY WITH 100K P/E CYCLES

The growth of the 5G industry, particularly in networking slicing technology, brings forth connectivity possibilities alongside new storage challenges. To tackle the rigorous demands of IoT devices and AI edge computing, Innodisk unveils its pioneering Ultra iSLC technology. Leveraging the exclusive firmware advancements, Ultra iSLC, featuring the Innodisk BiCS5 112-layer 3D TLC NAND Flash, sets a new standard with an industry-leading 100K P/E cycles, extending the device lifespan by 33 times compared to traditional 3D TLC NAND Flash.



5-Year
Warranty



High Read /
Write Performance



Extends the lifespan
by 33 times



Industry-highest
100K P/E Cycles

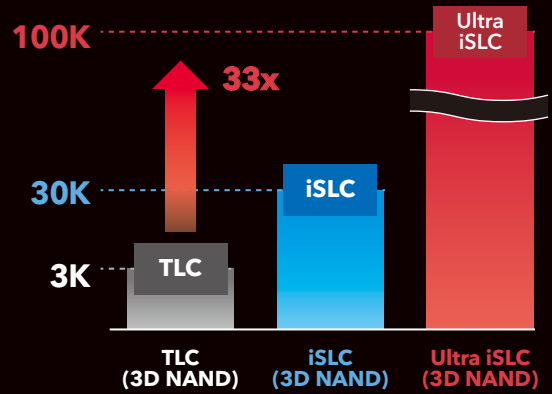


Ultra iSLC technology
+ Innodisk BiCS5 112-layer





INNODISK'S ULTRA iSLC FIRMWARE TECHNOLOGY

Innodisk's iSLC firmware technology compels 3D TLC flash to mimic SLC cells, reducing each NAND cell to 1 bit for enhanced durability and data retention. This emulation enables 3D TLC NAND flash to function similarly to SLC flash, significantly improving its performance characteristics.

Unit : Program/Erase Cycle



ULTRA iSLC SERIES

				
Model Name	3IE7	3IE6-P	4IE3	4IG2-P
Interface	SATA III 6.0Gb/s	SATA III 6.0Gb/s	PCIe Gen4 x4	PCIe Gen4 x4
Form Factor	2.5" SSD / M.2 2280 / M.2 2242 / mSATA / CFast / SATADOM	2.5" SSD / M.2 2280	M.2 2280 / M.2 2242 / CFexpress	U.2 / M.2 2280 / M.2 22110
Capacity	20GB ~ 640GB	160GB ~ 1.28TB	40GB ~ 640GB	160GB ~ 1.28TB
External DRAM Buffer	N	Y	N	Y
S.M.A.R.T.	Y	Y	Y	Y
Warranty	5 Years	5 Years	5 Years	5 Years
DWPD	34.2	53.4	34.6	31.4
Operation Temperature	Standard Temp. (0°C ~ + 70°C) / Wide Temp. (-40°C ~ + 85°C)			
Features	PLP (iCell)* / AES* / TCG Opal* / Thermal Management			
Max. Power Consumption	3.3W	3.0W	4.7W	10.2W
Sequential R/W (MB/sec, max.)	550 / 520	510 / 500	3550 / 3400	7100 / 5200

* Optional Features