

Which NAND solution is best for my design?

Micron offers a full line of high-performance memory solutions—from SLC and MLC to Serial NAND, to e•MMC™ and MCPs—for a variety of applications. And we work with chipset vendors, OS designers, and other enablers to ensure that they're optimized for your design.

Technology	Relative Attributes					
	Single-Package Density	Endurance	ECC Complexity	Performance	Price/GB	Interface Complexity
Single-Level Cell (SLC)	•	•••	•	•••	\$\$\$	••
Multi-Level Cell (MLC)	••	••	••	••	\$\$	•••
MLC 3-bit/cell	•••	•	•••	•	\$	•••
Serial NAND (SLC)	•	•••	None ³	•	\$\$\$	•
Enterprise NAND – SLC ¹	•	••••	••••	••	\$\$\$\$	••••
Enterprise NAND – MLC ¹	••	••••	••••	•	\$\$\$	••••
e•MMC	•• ²	••	None ³	••	\$\$	•
MCPs – NAND with DRAM	•	•••	•	•••	\$\$\$	••
ONFI Modules – SLC	•••	•••	•	•••	\$\$\$	••
ONFI Modules – MLC	••••	•	••	••	\$\$	•••

• = Lower; •• = Medium; ••• = High; •••• = Highest
 Notes: ¹Requires enhanced ECC and relaxed timings. ²Offered in a wide range of densities. ³ECC circuit and processing built in.

Technology	NAND Suitability by Application									
	Cards/USBs ⁴	Solid State Disks	Media Players	Cameras (DSC, DVC)	Mobile Handsets	Portable Navigation Devices	Enterprise, Computing, Industrial	Medical Apps	Networking	STB/DTV
Single-Level Cell (SLC)	•	•		•	•		•	•	•	•
Multi-Level Cell (MLC)	•	•	•	•	•	•	•			•
MLC 3-bit/cell	•		•			•				
Serial NAND (SLC)							•	•	•	•
Enterprise NAND – SLC		•					•			
Enterprise NAND – MLC		•					•			
e•MMC			•	•	•	•				•
MCPs – NAND with DRAM					•					
ONFI Modules – SLC		•					•	•	•	
ONFI Modules – MLC		•					•	•	•	

Note: ⁴Performance dependent.

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