Unified Memory Systems with 128GB+ RAM

Recent Releases & Comparison (2026)

System	Unified Memory	Compute	Price	Availability
Apple Mac Studio (M5 Max/M5 Ultra)	128GB / 512GB	4.3x faster AI perf	M5 Max from $2,499; M5 Ultra from $4,499	Pre-order Aug 25, 2026
NVIDIA DGX Spark	128GB LPDDR5x	1 petaFLOP FP4	$3,999	Oct 15, 2025
Nvidia RTX Spark	Up to 128GB LPDDR5x	1 petaFLOP FP4	Not yet announced (closest ref: DGX Spark $3,999)	Fall 2026 via OEMs

Pros & Cons

Mac Studio: Highest AI performance on Apple silicon; integrated Neural Accelerators per core; Thunderbolt 5 clustering for multi-system inference; full privacy on local LLM runs. Cons: High entry price (~$2,499-$5,499); Mac ecosystem lock-in.

DGX Spark: Proven dev platform with full NVIDIA AI stack; 1 petaFLOP FP4 compute; up to 200B-parameter models. Cons: Slow launch (5-month slip to Oct 2025); $3,999 starting; Linux-only.

RTX Spark: First Windows PCs built for local AI agents; CUDA/TensorRT/OptiX; four silicon tiers (top reaches 128GB); partners include Dell/HP/Lenovo/Microsoft. Cons: No pricing yet; no pre-orders; no firm ship date beyond 'fall 2026'; four tiers share a 64GB ceiling except flagship.