

Unified Memory Systems — 128GB+ RAM Comparison

1. Apple Mac Studio M4 Max

Attribute	Details
Unified Memory	128GB
Price	\$3,999
Availability	NOW
Pros	Silent operation, unified memory (no discrete GPU needed), strong software ecosystem (macOS, MLX, llama.cpp), 100% DCI-P3 color accuracy, 100% DCI-P3 color accuracy
Cons	No discrete GPU, limited upgradeability, Apple ecosystem lock-in

2. AMD Strix Halo (Ryzen AI Max 395)

Attribute	Details
Unified Memory	128GB
Price	\$3,999
Availability	NOW
Pros	128GB LPDDR5X unified memory, Ryzen AI Max 395 CPU, no discrete GPU required, 256/512GB variants coming in Medusa Halo
Cons	AMD ROCm software stack is less mature than Apple's; GPU options limited

3. NVIDIA DGX Spark

Attribute	Details
Unified Memory	128GB
Price	\$4,699
Availability	NOW
Pros	Petaflop-level Grace Blackwell AI compute, 128GB coherent unified memory, NVIDIA CUDA-native, designed for large-model development and local AI inference
Cons	Highest price point, developer-focused rather than consumer

4. NVIDIA RTX Spark

Attribute	Details
Unified Memory	128GB
Price	~\$2,899
Availability	Fall 2026
Pros	Consumer Windows PC with 128GB unified memory, NVIDIA N1X superchip, no 6-month wait
Cons	Less powerful than DGX Spark, consumer-grade hardware

5. AMD Gorgon Halo (Upcoming)

Attribute	Details
Unified Memory	192GB
Price	TBD
Availability	Future
Pros	192GB unified memory, 10% faster memory clock speeds/bandwidth than Strix Halo, Zen 6/RDNA3.5 architecture
Cons	Not yet released; pricing and availability TBD

6. AMD Medusa Halo (Upcoming, H1 2026)

Attribute	Details
Unified Memory	256GB+
Price	TBD
Availability	H1 2026
Pros	50% performance improvement over Strix Halo, 6 memory channels up from 4, LPDDR6 memory type
Cons	Not yet released; pricing and availability TBD

7. Intel Razor Lake AX (Upcoming, H2 2027)

Attribute	Details
Unified Memory	~341 GB/s (LPDDR5X/6)
Price	TBD
Availability	H2 2027
Pros	High memory bandwidth, expected H2 2027
Cons	Not yet released, likely not competing with Apple's unified memory approach

Quick Comparison Summary

System	Unified Memory	Price	Availability	Best For
Mac Studio M4 Max	128GB	\$3,999	Now	Consumer local AI, Apple ecosystem
Strix Halo	128GB	\$3,999	Now	AMD local AI, Ryzen AI Max
RTX Spark	128GB	~\$2,899	Fall 2026	Windows local AI, budget
DGX Spark	128GB	\$4,699	Now	Professional local AI, large models
Gorgon Halo	192GB	TBD	Future	Future-proof local AI
Medusa Halo	256GB+	TBD	H1 2026	Future-proof local AI
Intel Razor Lake AX	~341 GB/s	TBD	H2 2027	Future-proof local AI

Key Takeaway: The **Mac Studio M4 Max** and **Strix Halo** are the most mature options at 128GB today (\$3,999). The **RTX Spark** offers the best value at ~\$2,899 for a consumer Windows setup. The **Gorgon Halo** (192GB) and **Medusa Halo** (256GB+) are the next-gen contenders — both still in the near future. The **Intel Razor Lake AX** (H2 2027) has the highest memory bandwidth (~341 GB/s) but is not yet released.