

128GB+ RAM — Prices, Availability & Pros/Cons

| Attribute | Detail                                                                                                                       |
|-----------|------------------------------------------------------------------------------------------------------------------------------|
| Released  | August 25, 2026                                                                                                              |
| Price     | M5 Max: \$2,499 (pre-order from Aug 25; Sep 22 availability); M5 Ultra: \$5,499 (pre-order from Aug 25; Sep 22 availability) |
| RAM       | 128GB – 512GB unified memory                                                                                                 |
| Pros      | 4.3x faster AI compute (M5 Max); 9.8x more AI compute (M5 Ultra); up to 614GB/s memory bandwidth                             |
| Cons      | Higher price point (\$2,499–\$5,499); pre-order only, availability begins Sep 22; smaller form factor than Intel NUC         |

| Attribute | Detail                                                                                                    |
|-----------|-----------------------------------------------------------------------------------------------------------|
| Released  | September 2026 (IFA 2026 event)                                                                           |
| Price     | ~\$3,699 (entry config) starting November 2026; €3,100 (European pricing)                                 |
| RAM       | 128GB unified memory (1.6-liter desktop, AMD Ryzen AI Max+ PRO 495)                                       |
| Pros      | Compact enterprise form factor (1.6L desktop); AI-focused hardware with Ryzen AI Max+ PRO 495             |
| Cons      | Higher price point (~\$3,699); enterprise channel distribution; AI capability is integrated into hardware |

| Attribute | Detail                                                                                                      |
|-----------|-------------------------------------------------------------------------------------------------------------|
| Released  | May 2026 (testing phase; ready for purchase)                                                                |
| Price     | ~\$3,999 (retail, 128GB LPDDR5x configuration)                                                              |
| RAM       | 128GB unified memory (LPDDR5x)                                                                              |
| Pros      | Cost-effective (\$3,999 vs. Apple); Linux and Windows support; pre-configured developer playground          |
| Cons      | Limited standalone AI capability (developer-focused); small form factor (consumer-oriented); pre-order only |

| Dimension      | Mac Studio (M5)                                   | Lenovo ThinkCentre X Ultra                     | AMD Ryzen AI Halo                                   |
|----------------|---------------------------------------------------|------------------------------------------------|-----------------------------------------------------|
| RAM            | 128GB–512GB unified memory                        | 128GB unified memory                           | 128GB unified memory (LPDDR5x)                      |
| Price          | \$2,499–\$5,499                                   | ~\$3,699                                       | ~\$3,999                                            |
| Form Factor    | Desktop                                           | Desktop (1.6L)                                 | Developer platform                                  |
| AI Performance | 4.3x–9.8x faster (GPU/CPU) than Intel NUC         | 614GB/s memory bandwidth                       | ~10 TOPS NPU                                        |
| Ecosystem      | Apple ecosystem (macOS, Apple Intelligence)       | Enterprise-focused (Windows/Linux)             | Developer-focused (Linux/Windows)                   |
| Availability   | Pre-order, Sep 22 start                           | Enterprise channels, Nov 2026                  | Retail available, May 2026                          |
| Key Strengths  | Flagship AI performance; distributed intelligence | Compact enterprise form; strong AI performance | Cost-effective; developer-focused AI                |
| Key Cons       | Higher price; pre-order only                      | Higher price; enterprise-only                  | Limited standalone AI capability; small form factor |

Source: Apple press release (Aug 25, 2026); TechRadar (Sep 3, 2026); AMD product page (May 2026). Prices and availability as of September 2026 — subject to change at purchase.

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