GPUpartner

VALIDATION REPORT · TEXT GENERATION

# MiMo V2.6 Pro

on 8× H200 NVL · FP4 + FP8 · Ollama / LM Studio · Chat

STATUS · OCT 22, 2026

**Validated**

5 of 5 checks pass

**MiMo V2.6 Pro at FP4 + FP8 runs on the 8× H200 NVL with 1M of context at about 71 tokens a second.**

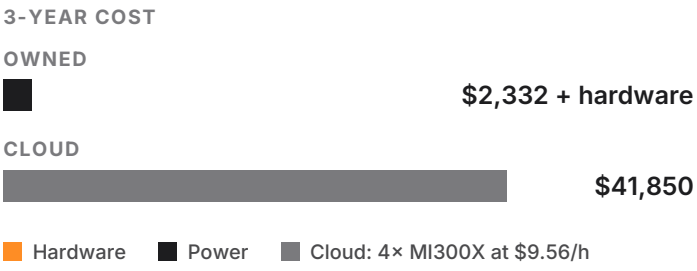
## VALIDATION

| CHECK | TARGET | RESULT | STATUS |
|---|---|---|---|
| Fits in GPU memory | 1,128 GB usable | 583 GB needed | PASS |
| Headroom | 5% free | 545 GB free (48%) | PASS |
| Context for chat | 16K or more | 1M | PASS |
| Writing speed | 15 tok/s or more | 71 tok/s | PASS |
| First reply | under 3 s, 2K prompt | 0.4 s | PASS |

Targets: a reply you can read along with, a first reply the use case tolerates, and 5% of memory left free. Calculated from published specs, not benchmarked.

## BUDGET

| | |
|---|---|
| HARDWARE, ONE-TIME | MSRP not entered |
| POWER, PER YEAR | $777 · 2960 W at the wall |
| CLOUD INSTEAD, PER YEAR | $13,950 |
| 3-YEAR TOTAL, OWNED | Hardware + $2,332 power |
| 3-YEAR TOTAL, CLOUD | $41,850 |
| BREAK-EVEN | Needs the hardware MSRP |




Budget basis: 4 h a day, power at $0.18 per kWh, cloud at RunPod on-demand prices as of Oct 22, 2026. Hardware at the MSRP entered in the calculator, not a GPU Partner quote. A 3-year view; resale value, staff time and taxes aren't counted.

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TECHNICAL DETAIL · TEXT GENERATION

# MiMo V2.6 Pro

on 8× H200 NVL · FP4 + FP8 · Ollama / LM Studio · Chat

## SETUP

| | |
|---|---|
| PARAMETERS | 1T, 42B active |
| PRECISION | FP4 + FP8 |
| CONTEXT | 1M, auto |
| CHATS AT ONCE | 1 |
| USE | Chat |
| RUNS IN | Ollama / LM Studio |
| HARDWARE | 8× H200 NVL |
| GPU CAN USE | 1,128 GB of 1,128 GB |

## SAME MODEL, OTHER MACHINES

| | |
|---|---|
| RTX 4090 | Too big |
| RTX 5090 | Too big |
| RTX PRO 6000 BLACKWELL | Too big |
| M5 MAX 128 GB | Too big |
| M3 ULTRA 256 GB | Too big |
| DGX SPARK 128 GB | Too big |
| RYZEN AI MAX+ 395 128 GB | Too big |

## MEMORY

| | |
|---|---|
| WEIGHTS | 527 GB |
| CONTEXT | 50.0 GB |
| RUNTIME | 5.8 GB |
| SYSTEM | 0.0 GB |
| FREE | 545 GB |

## HOW TO RUN IT

| | |
|---|---|
| LLAMA.CPP | `llama-server -hf ggml-org/MiMo-V2.6-Pro-RL-GGUF` |
| VLLM | `vllm serve XiaomiMiMo/MiMo-V2.6-Pro-RL` |
| MLX (MAC) | `mlx_lm.chat --model mlx-community/MiMo-V2.6-Pro-RL-mxfp4-q8` |
| MODEL CARD | huggingface.co/XiaomiMiMo/MiMo-V2.6-Pro-RL |

## METHOD AND ASSUMPTIONS

Memory is the weights (parameters times bits per weight, read from each model's config.json), the context cache for every chat, and the runtime, against the memory this GPU can use after the OS and display take theirs. Writing speed is memory bandwidth over the bytes read per token, plus a per-layer latency, calibrated against llama.cpp benchmarks. First reply is the prompt's FLOPs over the chip's dense 16-bit TFLOPS at the runtime's measured efficiency. Running cost is power at the wall at your rate and hours; the cloud figure is the cheapest RunPod on-demand GPU that runs the same job. Accuracy: memory lands within about a gigabyte; speeds and times are rough, about ±25%. Model data and hardware specs checked Oct 2026; cloud prices are RunPod's on-demand list as of Oct 22, 2026. Report VR-0RPKU63, generated October 22, 2026.