GPUpartner

VALIDATION REPORT · TEXT GENERATION

# MiMo V2.6 Pro

on RTX 5090 · FP4 + FP8 · Ollama / LM Studio · Chat

STATUS · OCT 23, 2026

**Not validated**

0 of 2 checks pass

**MiMo V2.6 Pro at FP4 + FP8 needs 529 GB; the RTX 5090 can use 32.0 GB. The smallest machine we checked that runs it is the H200 NVL.**

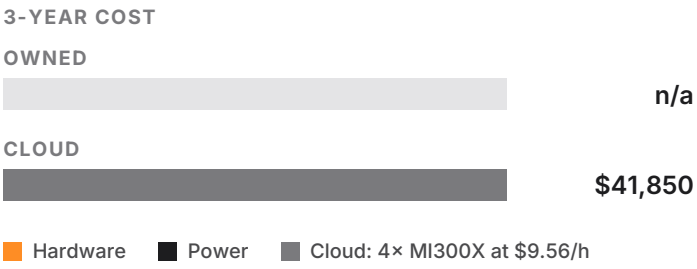
## VALIDATION

| CHECK | TARGET | RESULT | STATUS |
|---|---|---|---|
| Fits in GPU memory | 32.0 GB usable | 529 GB needed | FAIL |
| Headroom | 5% free | none | FAIL |
| Context for chat | 16K or more | – | NOT TESTED |
| Writing speed | 15 tok/s or more | – | NOT TESTED |
| First reply | under 3 s, 2K prompt | – | NOT TESTED |

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 | Doesn't run on this machine |
| CLOUD INSTEAD, PER YEAR | $13,950 |
| 3-YEAR TOTAL, OWNED | n/a |
| 3-YEAR TOTAL, CLOUD | $41,850 |
| BREAK-EVEN | n/a |




Budget basis: 4 h a day, power at $0.18 per kWh, cloud at RunPod on-demand prices as of Oct 23, 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 RTX 5090 · FP4 + FP8 · Ollama / LM Studio · Chat

## SETUP

| | |
|---|---|
| PARAMETERS | 1T, 42B active |
| PRECISION | FP4 + FP8 |
| CONTEXT | 8K, auto |
| CHATS AT ONCE | 1 |
| USE | Chat |
| RUNS IN | Ollama / LM Studio |
| HARDWARE | RTX 5090 |
| GPU CAN USE | 32.0 GB of 32.0 GB |

## MEMORY

| | |
|---|---|
| WEIGHTS | 527 GB |
| CONTEXT | 438 MB |
| RUNTIME | 951 MB |
| SYSTEM | 0.0 GB |
| OVER BY | 497 GB |

## SUGGESTED CHANGES

| | |
|---|---|
| 4× H200 NVL | Runs it with 112K context |
| 8× RTX PRO 6000 BLACKWELL | Runs it with 1M context |

## SAME MODEL, OTHER MACHINES

| | |
|---|---|
| RTX 4090 | 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 |
| DGX STATION GB300 | 1.6-bit · 168 tok/s |

## 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 23, 2026. Report VR-1N1U8HF, generated October 23, 2026.