GPUpartner

VALIDATION REPORT · TEXT GENERATION

MiMo V2.6 Flash

on M3 Ultra 256 GB · FP4 + FP8 · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

Not validated

4 of 5 checks pass

MiMo V2.6 Flash at FP4 + FP8 runs on the M3 Ultra 256 GB with 928K of context at about 37 tokens a second.

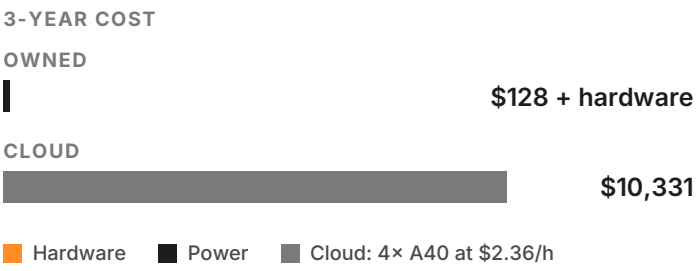
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	192 GB usable	182 GB needed	PASS
Headroom	5% free	9.9 GB free (5%)	PASS
Context for chat	16K or more	928K	PASS
Writing speed	15 tok/s or more	37 tok/s	PASS
First reply	under 3 s, 2K prompt	8.9 s	FAIL

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	$43 · 162 W at the wall
CLOUD INSTEAD, PER YEAR	$3,444
3-YEAR TOTAL, OWNED	Hardware + $128 power
3-YEAR TOTAL, CLOUD	$10,331
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 Nov 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.

GPUpartner

TECHNICAL DETAIL · TEXT GENERATION

MiMo V2.6 Flash

on M3 Ultra 256 GB · FP4 + FP8 · Ollama / LM Studio · Chat

SETUP

PARAMETERS	309B, 15B active
PRECISION	FP4 + FP8
CONTEXT	928K, auto
CHATS AT ONCE	1
USE	Chat
RUNS IN	Ollama / LM Studio
HARDWARE	M3 Ultra 256 GB
GPU CAN USE	192 GB of 256 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
DGX SPARK 128 GB	2-bit · 31 tok/s
RYZEN AI MAX+ 395 128 GB	Too big
DGX STATION GB300	FP4 + FP8 · 198 tok/s

MEMORY

WEIGHTS	161 GB
CONTEXT	20.4 GB
RUNTIME	682 MB
SYSTEM	64.0 GB
FREE	9.9 GB

HOW TO RUN IT

LLAMA.CPP	`llama-server -hf ggml-org/MiMo-V2.6-Flash-RL-GGUF`
VLLM	`vllm serve XiaomiMiMo/MiMo-V2.6-Flash-RL`
MLX (MAC)	`mlx_lm.chat --model mlx-community/MiMo-V2.6-Flash-RL-mxfp4-q8`
MODEL CARD	huggingface.co/XiaomiMiMo/MiMo-V2.6-Flash-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 Nov 2026; cloud prices are RunPod's on-demand list as of Nov 22, 2026. Report VR-1W7YME9, generated November 22, 2026.