GPUpartner

VALIDATION REPORT · TEXT GENERATION

LFM2.5 24B A2B

on M4 Pro 64 GB · 8-bit (Q8_0) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

Validated with conditions

4 of 5 checks pass

LFM2.5 24B A2B at 8-bit runs on the M4 Pro 64 GB with 128K of context at about 66 tokens a second.

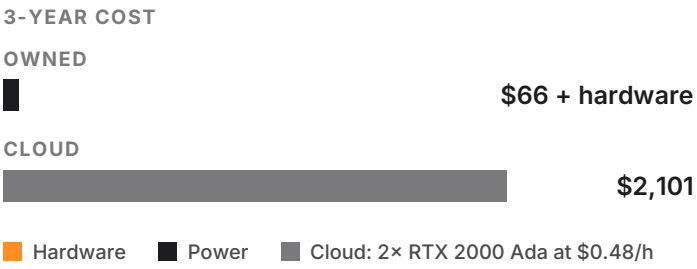
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	48.0 GB usable	26.8 GB needed	PASS
Headroom	5% free	21.2 GB free (44%)	PASS
Context for chat	16K or more	128K	PASS
Writing speed	15 tok/s or more	66 tok/s	PASS
First reply	under 3 s, 2K prompt	4.4 s	CAUTION

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	$22 · 84 W at the wall
CLOUD INSTEAD, PER YEAR	$700
3-YEAR TOTAL, OWNED	Hardware + $66 power
3-YEAR TOTAL, CLOUD	$2,101
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.

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TECHNICAL DETAIL · TEXT GENERATION

LFM2.5 24B A2B

on M4 Pro 64 GB · 8-bit (Q8_0) · Ollama / LM Studio · Chat

SETUP

PARAMETERS	24B, 2B active
PRECISION	8-bit (Q8_0)
CONTEXT	128K, auto
CHATS AT ONCE	1
USE	Chat
RUNS IN	Ollama / LM Studio
HARDWARE	M4 Pro 64 GB
GPU CAN USE	48.0 GB of 64.0 GB

SAME MODEL, OTHER MACHINES

RTX 4090	6-bit · 212 tok/s
RTX 5090	8-bit · 244 tok/s
RTX PRO 6000 BLACKWELL	8-bit · 244 tok/s
M5 MAX 128 GB	8-bit · 98 tok/s
M3 ULTRA 256 GB	8-bit · 104 tok/s
DGX SPARK 128 GB	8-bit · 74 tok/s
RYZEN AI MAX+ 395 128 GB	8-bit · 57 tok/s

MEMORY

WEIGHTS	23.7 GB
CONTEXT	2.5 GB
RUNTIME	570 MB
SYSTEM	16.0 GB
FREE	21.2 GB

HOW TO RUN IT

OLLAMA	`ollama run lfm2.5:24b`
LLAMA.CPP	`llama-server -hf unsloth/LFM2.5-24B-A2B-GGUF`
VLLM	`vllm serve LiquidAI/LFM2.5-24B-A2B`
MLX (MAC)	`mlx_lm.chat --model mlx-community/LFM2.5-24B-A2B-OptiQ-4bit`
MODEL CARD	huggingface.co/LiquidAI/LFM2.5-24B-A2B

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-1QBMTYI, generated November 22, 2026.