GPUpartner

VALIDATION REPORT · TEXT GENERATION

Devstral Small 2 24B

on M4 32 GB · 5-bit (Q5_K_M) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

Not validated

3 of 5 checks pass

Devstral Small 2 24B at 5-bit runs on the M4 32 GB with 20K of context at about 5.8 tokens a second.

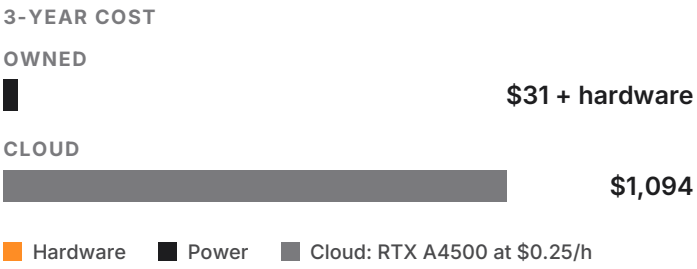
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	21.3 GB usable	19.7 GB needed	PASS
Headroom	5% free	1.6 GB free (8%)	PASS
Context for chat	16K or more	20K	PASS
Writing speed	15 tok/s or more	5.8 tok/s	FAIL
First reply	under 3 s, 2K prompt	32 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	$10 · 39 W at the wall
CLOUD INSTEAD, PER YEAR	$365
3-YEAR TOTAL, OWNED	Hardware + $31 power
3-YEAR TOTAL, CLOUD	$1,094
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

Devstral Small 2 24B

on M4 32 GB · 5-bit (Q5_K_M) · Ollama / LM Studio · Chat

SETUP

PARAMETERS	24B
PRECISION	5-bit (Q5_K_M)
CONTEXT	20K, auto
CHATS AT ONCE	1
USE	Chat
RUNS IN	Ollama / LM Studio
HARDWARE	M4 32 GB
GPU CAN USE	21.3 GB of 32.0 GB

MEMORY

WEIGHTS	15.9 GB
CONTEXT	3.1 GB
RUNTIME	672 MB
SYSTEM	10.7 GB
FREE	1.6 GB

SUGGESTED CHANGES

8-BIT CACHE	Room for 44K context

SAME MODEL, OTHER MACHINES

RTX 4090	6-bit · 35 tok/s
RTX 5090	FP8 · 47 tok/s
RTX PRO 6000 BLACKWELL	FP8 · 47 tok/s
M5 MAX 128 GB	FP8 · 17 tok/s
M3 ULTRA 256 GB	FP8 · 20 tok/s
DGX SPARK 128 GB	FP8 · 7.6 tok/s
RYZEN AI MAX+ 395 128 GB	FP8 · 6.1 tok/s

HOW TO RUN IT

OLLAMA	`ollama run devstral-small-2:24b`
LLAMA.CPP	`llama-server -hf unsloth/Devstral-Small-2-24B-Instruct-2512-GGUF`
VLLM	`vllm serve mistralai/Devstral-Small-2-24B-Instruct-2512`
MLX (MAC)	`mlx_lm.chat --model mlx-community/Devstral-Small-2-24B-Instruct-2512-4bit`
MODEL CARD	huggingface.co/mistralai/Devstral-Small-2-24B-Instruct-2512

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-11QC16V, generated November 22, 2026.