GPUpartner

VALIDATION REPORT · TEXT GENERATION

MinerU2.5 Pro 2605 1.2B

on RTX 5090 · 8-bit (Q8_0) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

Validated

5 of 5 checks pass

MinerU2.5 Pro 2605 1.2B at 8-bit runs on the RTX 5090 with 8K of context at about 589 tokens a second.

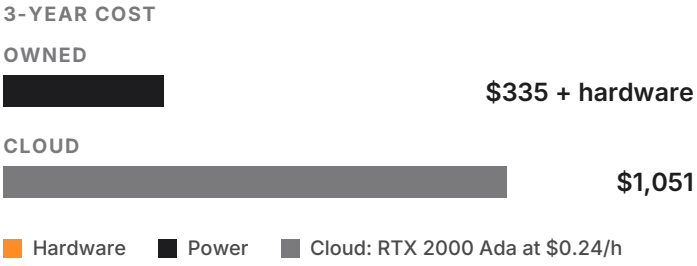
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	32.0 GB usable	**2.0 GB needed**	PASS
Headroom	5% free	**30.0 GB free (94%)**	PASS
Context for chat	8K or more	**8K**	PASS
Writing speed	15 tok/s or more	**589 tok/s**	PASS
First reply	under 3 s, 2K prompt	**0.1 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	$112 · 425 W at the wall
CLOUD INSTEAD, PER YEAR	$350
3-YEAR TOTAL, OWNED	Hardware + $335 power
3-YEAR TOTAL, CLOUD	$1,051
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

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SETUP

PARAMETERS	1.2B
PRECISION	8-bit (Q8_0)
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

SAME MODEL, OTHER MACHINES

RTX 4090	8-bit · 406 tok/s
RTX PRO 6000 BLACKWELL	8-bit · 589 tok/s
M5 MAX 128 GB	8-bit · 218 tok/s
M3 ULTRA 256 GB	8-bit · 237 tok/s
DGX SPARK 128 GB	8-bit · 140 tok/s
RYZEN AI MAX+ 395 128 GB	8-bit · 109 tok/s
DGX STATION GB300	8-bit · 1,034 tok/s

MEMORY

WEIGHTS	1.1 GB
CONTEXT	96 MB
RUNTIME	786 MB
SYSTEM	0.0 GB
FREE	30.0 GB

HOW TO RUN IT

LLAMA.CPP	`llama-server -hf mradermacher/MinerU2.5-Pro-2605-1.2B-GGUF`
VLLM	`vllm serve opendatalab/MinerU2.5-Pro-2605-1.2B`
MODEL CARD	huggingface.co/opendatalab/MinerU2.5-Pro-2605-1.2B

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-0ZHQEKX, generated November 22, 2026.