GPUpartner

VALIDATION REPORT · TEXT GENERATION

EXAONE 4.5 33B

on Ryzen AI Max+ 395 64 GB · 8-bit (Q8_0) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

Not validated

3 of 5 checks pass

EXAONE 4.5 33B at 8-bit runs on the Ryzen AI Max+ 395 64 GB with 160K of context at about 4.2 tokens a second.

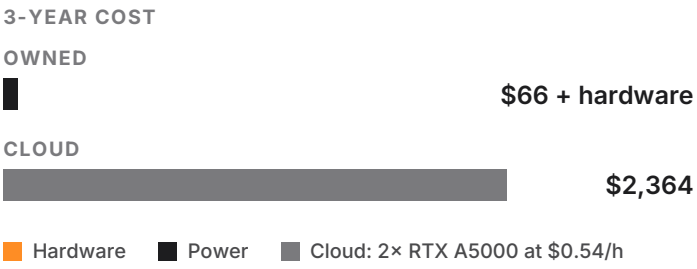
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	48.0 GB usable	45.4 GB needed	PASS
Headroom	5% free	2.6 GB free (5%)	PASS
Context for chat	16K or more	160K	PASS
Writing speed	15 tok/s or more	4.2 tok/s	FAIL
First reply	under 3 s, 2K prompt	6.7 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	$22 · 84 W at the wall
CLOUD INSTEAD, PER YEAR	$788
3-YEAR TOTAL, OWNED	Hardware + $66 power
3-YEAR TOTAL, CLOUD	$2,364
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

EXAONE 4.5 33B

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SETUP

PARAMETERS	34.4B
PRECISION	8-bit (Q8_0)
CONTEXT	160K, auto
CHATS AT ONCE	1
USE	Chat
RUNS IN	Ollama / LM Studio
HARDWARE	Ryzen AI Max+ 395 64 GB
GPU CAN USE	48.0 GB of 64.0 GB

SAME MODEL, OTHER MACHINES

RTX 4090	4-bit · 33 tok/s
RTX 5090	6-bit · 42 tok/s
RTX PRO 6000 BLACKWELL	8-bit · 33 tok/s
M5 MAX 128 GB	8-bit · 12 tok/s
M3 ULTRA 256 GB	8-bit · 14 tok/s
DGX SPARK 128 GB	8-bit · 5.3 tok/s
DGX STATION GB300	8-bit · 110 tok/s

MEMORY

WEIGHTS	34.0 GB
CONTEXT	10.8 GB
RUNTIME	716 MB
SYSTEM	16.0 GB
FREE	2.6 GB

HOW TO RUN IT

LLAMA.CPP	`llama-server -hf LGAI-EXAONE/EXAONE-4.5-33B-GGUF`
VLLM	`vllm serve LGAI-EXAONE/EXAONE-4.5-33B`
MODEL CARD	huggingface.co/LGAI-EXAONE/EXAONE-4.5-33B

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-1TJK88F, generated November 22, 2026.