GPUpartner

VALIDATION REPORT · TEXT GENERATION

# StableIm 3B 4e1t

on 4× H200 NVL · 8-bit (Q8_0) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

**Validated**

5 of 5 checks pass

**StableIm 3B 4e1t at 8-bit runs on the 4× H200 NVL with 4K of context at about 555 tokens a second.**

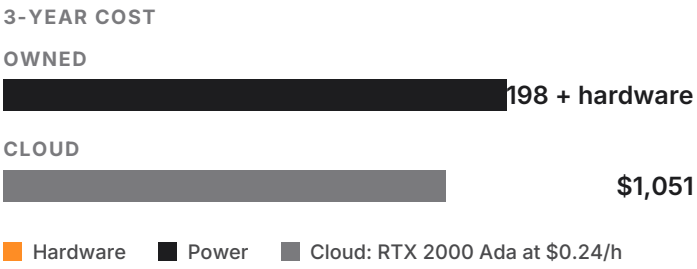
## VALIDATION

| CHECK | TARGET | RESULT | STATUS |
|---|---|---|---|
| Fits in GPU memory | 564 GB usable | 6.3 GB needed | PASS |
| Headroom | 5% free | 558 GB free (99%) | PASS |
| Context for chat | 4K or more | 4K | PASS |
| Writing speed | 15 tok/s or more | 555 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 | $399 · 1520 W at the wall |
| CLOUD INSTEAD, PER YEAR | $350 |
| 3-YEAR TOTAL, OWNED | Hardware + $1,198 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

# Stablelm 3B 4e1t

on 4× H200 NVL · 8-bit (Q8_0) · Ollama / LM Studio · Chat

## SETUP

| | |
|---|---|
| PARAMETERS | 2.8B |
| PRECISION | 8-bit (Q8_0) |
| CONTEXT | 4K, auto |
| CHATS AT ONCE | 1 |
| USE | Chat |
| RUNS IN | Ollama / LM Studio |
| HARDWARE | 4× H200 NVL |
| GPU CAN USE | 564 GB of 564 GB |

## SAME MODEL, OTHER MACHINES

| | |
|---|---|
| RTX 4090 | 8-bit · 201 tok/s |
| RTX 5090 | 8-bit · 311 tok/s |
| RTX PRO 6000 BLACKWELL | 8-bit · 311 tok/s |
| M5 MAX 128 GB | 8-bit · 115 tok/s |
| M3 ULTRA 256 GB | 8-bit · 127 tok/s |
| DGX SPARK 128 GB | 8-bit · 63 tok/s |
| RYZEN AI MAX+ 395 128 GB | 8-bit · 50 tok/s |

## MEMORY

| | |
|---|---|
| WEIGHTS | 2.8 GB |
| CONTEXT | 1.3 GB |
| RUNTIME | 2.2 GB |
| SYSTEM | 0.0 GB |
| FREE | 558 GB |

## HOW TO RUN IT

| | |
|---|---|
| LLAMA.CPP | `llama-server -hf afrideva/stablelm-3b-4e1t-GGUF` |
| VLLM | `vllm serve stabilityai/stablelm-3b-4e1t` |
| MODEL CARD | huggingface.co/stabilityai/stablelm-3b-4e1t |

## 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-0C9EL3F, generated November 22, 2026.