GPUpartner

VALIDATION REPORT · TEXT GENERATION

Inkling

on 4× H200 NVL · 4-bit (Q4_K_M) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

Validated with conditions

4 of 5 checks pass

Inkling at 4-bit runs on the 4× H200 NVL with 4K of context at about 88 tokens a second.

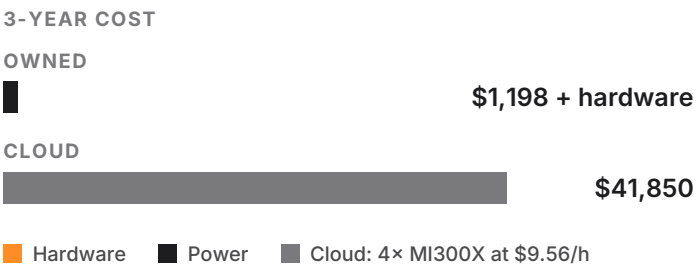
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	564 GB usable	542 GB needed	PASS
Headroom	5% free	22.0 GB free (4%)	CAUTION
Context for chat	4K or more	4K	PASS
Writing speed	15 tok/s or more	88 tok/s	PASS
First reply	under 3 s, 2K prompt	0.7 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	$13,950
3-YEAR TOTAL, OWNED	Hardware + $1,198 power
3-YEAR TOTAL, CLOUD	$41,850
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

Inkling

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SETUP

PARAMETERS	952B, 40.9B active
PRECISION	4-bit (Q4_K_M)
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

MEMORY

WEIGHTS	538 GB
CONTEXT	1.0 GB
RUNTIME	3.2 GB
SYSTEM	0.0 GB
FREE	22.0 GB

SUGGESTED CHANGES

8× RTX PRO 6000 BLACKWELL	Runs it with 4K context
8× H200 NVL	Runs it with 4K context

SAME MODEL, OTHER MACHINES

RTX 4090	Too big
RTX 5090	Too big
RTX PRO 6000 BLACKWELL	Too big
M5 MAX 128 GB	Too big
M3 ULTRA 256 GB	1.6-bit · 40 tok/s
DGX SPARK 128 GB	Too big
RYZEN AI MAX+ 395 128 GB	Too big

HOW TO RUN IT

LLAMA.CPP	`llama-server -hf unsloth/inkling-GGUF`
VLLM	`vllm serve thinkingmachines/Inkling`
MODEL CARD	huggingface.co/thinkingmachines/Inkling

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-15VU1CR, generated November 22, 2026.