GPUpartner

VALIDATION REPORT · TEXT GENERATION

Inkling Small

on Ryzen AI Max+ 395 128 GB · 2-bit (Q2_K) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

Not validated

3 of 5 checks pass

Inkling Small at 2-bit runs on the Ryzen AI Max+ 395 128 GB with 4K of context at about 32 tokens a second.

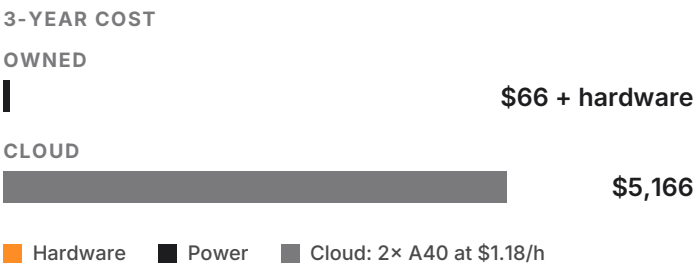
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	96.0 GB usable	94.3 GB needed	PASS
Headroom	5% free	1.7 GB free (2%)	CAUTION
Context for chat	4K or more	4K	PASS
Writing speed	15 tok/s or more	32 tok/s	PASS
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	$1,722
3-YEAR TOTAL, OWNED	Hardware + $66 power
3-YEAR TOTAL, CLOUD	$5,166
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 Small

on Ryzen AI Max+ 395 128 GB · 2-bit (Q2_K) · Ollama / LM Studio · Chat

SETUP

PARAMETERS	266B, 11.4B active
PRECISION	2-bit (Q2_K)
CONTEXT	4K, auto
CHATS AT ONCE	1
USE	Chat
RUNS IN	Ollama / LM Studio
HARDWARE	Ryzen AI Max+ 395 128 GB
GPU CAN USE	96.0 GB of 128 GB

MEMORY

WEIGHTS	92.9 GB
CONTEXT	672 MB
RUNTIME	777 MB
SYSTEM	32.0 GB
FREE	1.7 GB

SUGGESTED CHANGES

DGX SPARK · 128 GB	Runs it with 4K context
H200 NVL	Runs it with 4K context
M5 ULTRA · 256 GB	Runs it with 4K context

SAME MODEL, OTHER MACHINES

RTX 4090	Too big
RTX 5090	Too big
RTX PRO 6000 BLACKWELL	2-bit · 168 tok/s
M5 MAX 128 GB	2-bit · 66 tok/s
M3 ULTRA 256 GB	5-bit · 47 tok/s
DGX SPARK 128 GB	2-bit · 40 tok/s
DGX STATION GB300	6-bit · 227 tok/s

HOW TO RUN IT

LLAMA.CPP	`llama-server -hf unsloth/Inkling-Small-GGUF`
VLLM	`vllm serve thinkingmachines/Inkling-Small`
MLX (MAC)	`mlx_lm.chat --model mlx-community/Inkling-Small-mxfp4`
MODEL CARD	huggingface.co/thinkingmachines/Inkling-Small

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-1F5UL8K, generated November 22, 2026.