GPUpartner

VALIDATION REPORT · TEXT GENERATION

Qwen1.5 72B

on Ryzen AI Max+ 395 64 GB · 4-bit (Q4_K_M) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

Not validated

0 of 2 checks pass

Qwen1.5 72B at 4-bit needs 61.6 GB; the Ryzen AI Max+ 395 64 GB can use 48.0 GB. The smallest machine we checked that runs it is the H200 NVL.

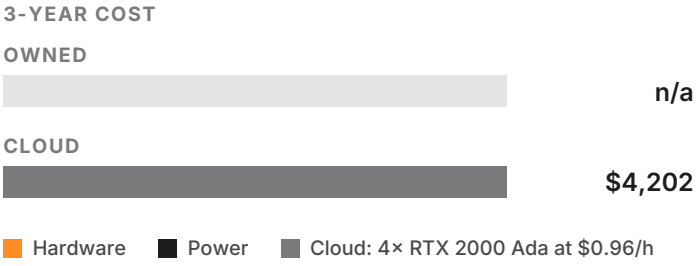
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	48.0 GB usable	61.6 GB needed	FAIL
Headroom	5% free	none	FAIL
Context for chat	16K or more	–	NOT TESTED
Writing speed	15 tok/s or more	–	NOT TESTED
First reply	under 3 s, 2K prompt	–	NOT TESTED

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	Doesn't run on this machine
CLOUD INSTEAD, PER YEAR	$1,401
3-YEAR TOTAL, OWNED	n/a
3-YEAR TOTAL, CLOUD	$4,202
BREAK-EVEN	n/a



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

Qwen1.5 72B

on Ryzen AI Max+ 395 64 GB · 4-bit (Q4_K_M) · Ollama / LM Studio · Chat

SETUP

PARAMETERS	72.3B
PRECISION	4-bit (Q4_K_M)
CONTEXT	8K, 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

MEMORY

WEIGHTS	40.8 GB
CONTEXT	20.0 GB
RUNTIME	809 MB
SYSTEM	16.0 GB
OVER BY	13.6 GB

SUGGESTED CHANGES

RAISE THE LIMIT	More memory for the GPU, 4K context
H200 NVL	Runs it with 32K context
M5 ULTRA · 256 GB	Runs it with 32K context
DGX STATION GB300	Runs it with 32K context

SAME MODEL, OTHER MACHINES

RTX 4090	Too big
RTX 5090	Too big
RTX PRO 6000 BLACKWELL	5-bit · 23 tok/s
M5 MAX 128 GB	5-bit · 8.6 tok/s
M3 ULTRA 256 GB	8-bit · 6.7 tok/s
DGX SPARK 128 GB	8-bit · 2.5 tok/s
DGX STATION GB300	8-bit · 57 tok/s

HOW TO RUN IT

LLAMA.CPP	`llama-server -hf mradermacher/Qwen1.5-72B-i1-GGUF`
VLLM	`vllm serve Qwen/Qwen1.5-72B`
MODEL CARD	huggingface.co/Qwen/Qwen1.5-72B

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-0LX1QZ8, generated November 22, 2026.