GPUpartner

VALIDATION REPORT · TEXT GENERATION

Qwen1.5 7B

on RTX 5060 · 4-bit (Q4_K_M) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

Not validated

3 of 5 checks pass

Qwen1.5 7B at 4-bit runs on the RTX 5060 with 4K of context at about 68 tokens a second.

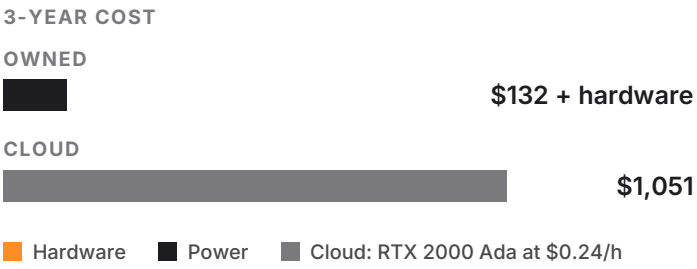
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	8.0 GB usable	7.2 GB needed	PASS
Headroom	5% free	794 MB free (10%)	CAUTION
Context for chat	16K or more	4K	FAIL
Writing speed	15 tok/s or more	68 tok/s	PASS
First reply	under 3 s, 2K prompt	0.8 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	$44 · 167 W at the wall
CLOUD INSTEAD, PER YEAR	$350
3-YEAR TOTAL, OWNED	Hardware + $132 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

Qwen1.5 7B

on RTX 5060 · 4-bit (Q4_K_M) · Ollama / LM Studio · Chat

SETUP

PARAMETERS	7.7B
PRECISION	4-bit (Q4_K_M)
CONTEXT	4K, auto
CHATS AT ONCE	1
USE	Chat
RUNS IN	Ollama / LM Studio
HARDWARE	RTX 5060
GPU CAN USE	8.0 GB of 8.0 GB

MEMORY

WEIGHTS	4.4 GB
CONTEXT	2.0 GB
RUNTIME	886 MB
SYSTEM	0.0 GB
FREE	794 MB

SUGGESTED CHANGES

2× RTX 5060	Fits across the cards, 16K context
8-BIT CACHE	Room for 8K context
RTX 4090	Runs it with 32K context
M5 MAX · 36 GB	Runs it with 32K context

SAME MODEL, OTHER MACHINES

RTX 4090	8-bit · 86 tok/s
RTX 5090	8-bit · 143 tok/s
RTX PRO 6000 BLACKWELL	8-bit · 143 tok/s
M5 MAX 128 GB	8-bit · 53 tok/s
M3 ULTRA 256 GB	8-bit · 60 tok/s
DGX SPARK 128 GB	8-bit · 25 tok/s
RYZEN AI MAX+ 395 128 GB	8-bit · 20 tok/s

HOW TO RUN IT

LLAMA.CPP	`llama-server -hf mradermacher/Qwen1.5-7B-i1-GGUF`
VLLM	`vllm serve Qwen/Qwen1.5-7B`
MODEL CARD	huggingface.co/Qwen/Qwen1.5-7B

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-0JFN9WE, generated November 22, 2026.