GPUpartner

VALIDATION REPORT · TEXT GENERATION

Malaysian TTS 0.6B V1

on RTX 4080 Super · 8-bit (Q8_0) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

Validated

5 of 5 checks pass

Malaysian TTS 0.6B V1 at 8-bit runs on the RTX 4080 Super with 32K of context at about 468 tokens a second.

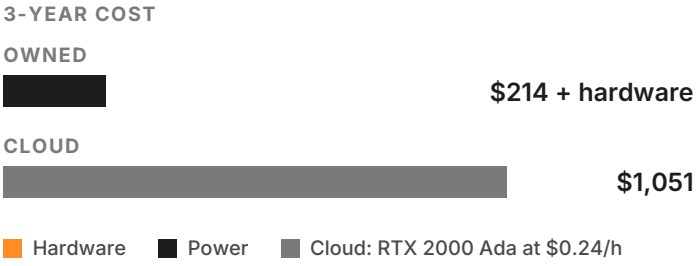
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	16.0 GB usable	5.0 GB needed	PASS
Headroom	5% free	11.0 GB free (69%)	PASS
Context for chat	16K or more	32K	PASS
Writing speed	15 tok/s or more	468 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	$71 · 272 W at the wall
CLOUD INSTEAD, PER YEAR	$350
3-YEAR TOTAL, OWNED	Hardware + $214 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

Malaysian TTS 0.6B V1

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SETUP

PARAMETERS	629M
PRECISION	8-bit (Q8_0)
CONTEXT	32K, auto
CHATS AT ONCE	1
USE	Chat
RUNS IN	Ollama / LM Studio
HARDWARE	RTX 4080 Super
GPU CAN USE	16.0 GB of 16.0 GB

MEMORY

WEIGHTS	638 MB
CONTEXT	3.5 GB
RUNTIME	853 MB
SYSTEM	0.0 GB
FREE	11.0 GB

SAME MODEL, OTHER MACHINES

RTX 4090	8-bit · 559 tok/s
RTX 5090	8-bit · 728 tok/s
RTX PRO 6000 BLACKWELL	8-bit · 728 tok/s
M5 MAX 128 GB	8-bit · 271 tok/s
M3 ULTRA 256 GB	8-bit · 286 tok/s
DGX SPARK 128 GB	8-bit · 230 tok/s
RYZEN AI MAX+ 395 128 GB	8-bit · 174 tok/s

HOW TO RUN IT

LLAMA.CPP	`llama-server -hf mradermacher/Malaysian-TTS-0.6B-v1-GGUF`
VLLM	`vllm serve mesolitica/Malaysian-TTS-0.6B-v1`
MODEL CARD	huggingface.co/mesolitica/Malaysian-TTS-0.6B-v1

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-14WPXWJ, generated November 22, 2026.