GPUpartner

VALIDATION REPORT · TEXT GENERATION

NVIDIA Nemotron Labs Dory1.0 4B BF16

on 8× RTX PRO 6000 Blackwell · 8-bit (Q8_0) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

Validated

5 of 5 checks pass

NVIDIA Nemotron Labs Dory1.0 4B BF16 at 8-bit runs on the 8× RTX PRO 6000 Blackwell with 256K of context at about 191 tokens a second.

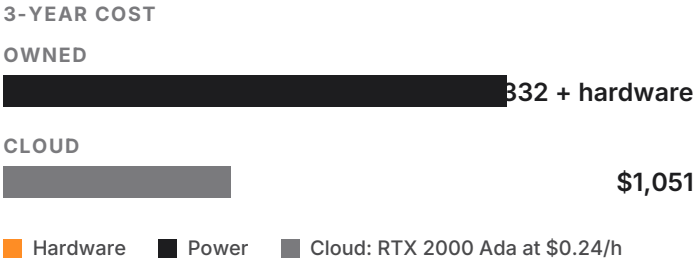
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	768 GB usable	18.1 GB needed	PASS
Headroom	5% free	750 GB free (98%)	PASS
Context for chat	16K or more	256K	PASS
Writing speed	15 tok/s or more	191 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	$777 · 2960 W at the wall
CLOUD INSTEAD, PER YEAR	$350
3-YEAR TOTAL, OWNED	Hardware + $2,332 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

NVIDIA Nemotron Labs Dory1.0 4B BF16

on 8× RTX PRO 6000 Blackwell · 8-bit (Q8_0) · Ollama / LM Studio · Chat

SETUP

PARAMETERS	4B
PRECISION	8-bit (Q8_0)
CONTEXT	256K, auto
CHATS AT ONCE	1
USE	Chat
RUNS IN	Ollama / LM Studio
HARDWARE	8× RTX PRO 6000 Blackwell
GPU CAN USE	768 GB of 768 GB

SAME MODEL, OTHER MACHINES

RTX 4090	8-bit · 131 tok/s
RTX 5090	8-bit · 191 tok/s
RTX PRO 6000 BLACKWELL	8-bit · 191 tok/s
M5 MAX 128 GB	8-bit · 71 tok/s
M3 ULTRA 256 GB	8-bit · 77 tok/s
DGX SPARK 128 GB	8-bit · 45 tok/s
RYZEN AI MAX+ 395 128 GB	8-bit · 35 tok/s

MEMORY

WEIGHTS	3.9 GB
CONTEXT	9.1 GB
RUNTIME	5.1 GB
SYSTEM	0.0 GB
FREE	750 GB

HOW TO RUN IT

LLAMA.CPP	`llama-server -hf cloudnathan5/Dory1.0-4B-GGUF`
VLLM	`vllm serve nvidia/NVIDIA-Nemotron-Labs-Dory1.0-4B-BF16`
MODEL CARD	huggingface.co/nvidia/NVIDIA-Nemotron-Labs-Dory1.0-4B-BF16

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-19AQFUC, generated November 22, 2026.