GPUpartner

VALIDATION REPORT · TEXT GENERATION

# Agents A1

on DGX Spark 128 GB · 8-bit (Q8_0) · Ollama / LM Studio · Chat

STATUS · NOV 22, 2026

**Validated**

5 of 5 checks pass

**Agents A1 at 8-bit runs on the DGX Spark 128 GB with 256K of context at about 41 tokens a second.**

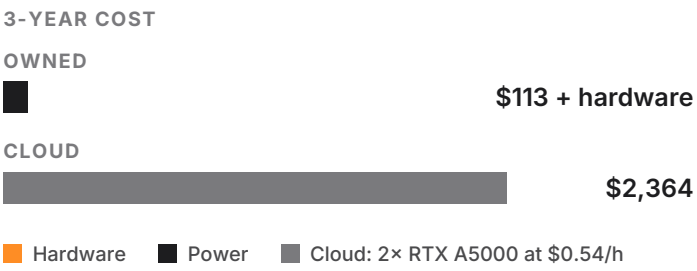
## VALIDATION

| CHECK | TARGET | RESULT | STATUS |
|---|---|---|---|
| Fits in GPU memory | 120 GB usable | 40.6 GB needed | PASS |
| Headroom | 5% free | 79.7 GB free (66%) | PASS |
| Context for chat | 16K or more | 256K | PASS |
| Writing speed | 15 tok/s or more | 41 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 | $38 · 144 W at the wall |
| CLOUD INSTEAD, PER YEAR | $788 |
| 3-YEAR TOTAL, OWNED | Hardware + $113 power |
| 3-YEAR TOTAL, CLOUD | $2,364 |
| 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

# Agents A1

on DGX Spark 128 GB · 8-bit (Q8_0) · Ollama / LM Studio · Chat

## SETUP

| | |
|---|---|
| PARAMETERS | 35.1B, 3.9B active |
| PRECISION | 8-bit (Q8_0) |
| CONTEXT | 256K, auto |
| CHATS AT ONCE | 1 |
| USE | Chat |
| RUNS IN | Ollama / LM Studio |
| HARDWARE | DGX Spark 128 GB |
| GPU CAN USE | 120 GB of 128 GB |

## SAME MODEL, OTHER MACHINES

| | |
|---|---|
| RTX 4090 | 4-bit · 171 tok/s |
| RTX 5090 | 6-bit · 200 tok/s |
| RTX PRO 6000 BLACKWELL | 8-bit · 174 tok/s |
| M5 MAX 128 GB | 8-bit · 68 tok/s |
| M3 ULTRA 256 GB | 8-bit · 74 tok/s |
| RYZEN AI MAX+ 395 128 GB | 8-bit · 32 tok/s |
| DGX STATION GB300 | 8-bit · 308 tok/s |

## MEMORY

| | |
|---|---|
| WEIGHTS | 34.7 GB |
| CONTEXT | 5.1 GB |
| RUNTIME | 805 MB |
| SYSTEM | 7.7 GB |
| FREE | 79.7 GB |

## HOW TO RUN IT

| | |
|---|---|
| LLAMA.CPP | `llama-server -hf huihui-ai/Huihui-Agents-A1-abliterated-GGUF` |
| VLLM | `vllm serve InternScience/Agents-A1` |
| MLX (MAC) | `mlx_lm.chat --model mlx-community/Agents-A1-4bit` |
| MODEL CARD | huggingface.co/InternScience/Agents-A1 |

## 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-0H60RYA, generated November 22, 2026.