GPUpartner

VALIDATION REPORT · IMAGE GENERATION

# FLUX.1 [dev]

on RTX 4060 · 4-bit (GGUF Q4_K_M · NVFP4)

STATUS · NOV 22, 2026

**Validated with conditions**

1 of 3 checks pass

**FLUX.1 [dev] at 4-bit runs on the RTX 4060, about 69 s per image.**

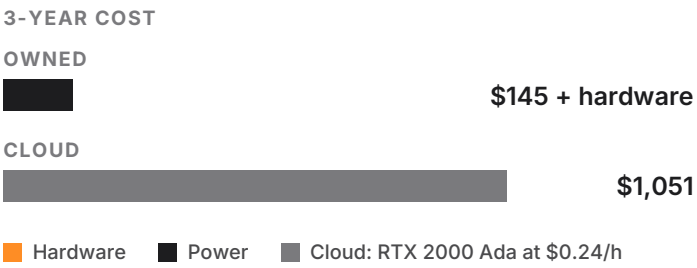
## VALIDATION

| CHECK | TARGET | RESULT | STATUS |
|---|---|---|---|
| Fits in GPU memory | 8.0 GB usable | 7.7 GB needed | PASS |
| Headroom | 5% free | 348 MB free (4%) | CAUTION |
| Time per image | under 30 s | 69 s | CAUTION |

Targets: an image in under 30 s, and 5% of memory left free. Calculated from published specs, not benchmarked.

## BUDGET

| | |
|---|---|
| HARDWARE, ONE-TIME | MSRP not entered |
| POWER, PER YEAR | $48 · 184 W at the wall |
| CLOUD INSTEAD, PER YEAR | $350 |
| 3-YEAR TOTAL, OWNED | Hardware + $145 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.

GPUpartner

TECHNICAL DETAIL · IMAGE GENERATION

# FLUX.1 [dev]

on RTX 4060 · 4-bit (GGUF Q4_K_M · NVFP4)

## SETUP

| | |
|---|---|
| PARAMETERS | 11.9B |
| PRECISION | 4-bit (GGUF Q4_K_M · NVFP4) |
| OUTPUT | 1024 × 1024 |
| STEPS | 20 |
| HARDWARE | RTX 4060 |
| GPU CAN USE | 8.0 GB of 8.0 GB |

## MEMORY

| | |
|---|---|
| WEIGHTS | 6.6 GB |
| WORKING | 216 MB |
| RUNTIME | 819 MB |
| SYSTEM | 0.0 GB |
| FREE | 348 MB |

## SUGGESTED CHANGES

| | |
|---|---|
| 768² OUTPUT | Fits, 41 s an image |
| RTX PRO 2000 BLACKWELL | Runs it, 31 s an image |
| M5 MAX · 36 GB | Runs it, 40 s an image |
| RYZEN AI MAX+ 395 · 32 GB | Runs it, 60 s an image |

## SAME MODEL, OTHER MACHINES

| | |
|---|---|
| RTX 4090 | 16-bit · 12 s |
| RTX 5090 | 16-bit · 9.5 s |
| RTX PRO 6000 BLACKWELL | 16-bit · 4.6 s |
| M5 MAX 128 GB | 16-bit · 35 s |
| M3 ULTRA 256 GB | 16-bit · 66 s |
| DGX SPARK 128 GB | 16-bit · 30 s |
| RYZEN AI MAX+ 395 128 GB | 16-bit · 53 s |

## WHERE TO GET IT

| | |
|---|---|
| FP8 | huggingface.co/black-forest-labs/FLUX.1-dev-FP8 |
| NVFP4 | huggingface.co/black-forest-labs/FLUX.1-dev-NVFP4 |
| GGUF | huggingface.co/city96/FLUX.1-dev-gguf |
| OFFICIAL | huggingface.co/black-forest-labs/FLUX.1-dev |

## METHOD AND ASSUMPTIONS

Memory is the denoiser's weights at the chosen precision plus the bigger of one transformer block's working set and the VAE decode, plus the runtime; the text encoders run first and then wait in system RAM. Time is the denoising FLOPs per step times the steps, against the chip's dense 16-bit TFLOPS, scaled to published GeForce runs of this model. 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-0X5DJ79, generated November 22, 2026.