GPUpartner

VALIDATION REPORT · IMAGE GENERATION

# Qwen Image 2512

on M3 Ultra 512 GB · 16-bit (BF16)

STATUS · NOV 22, 2026

**Not validated**

2 of 3 checks pass

**Qwen Image 2512 at 16-bit runs on the M3 Ultra 512 GB, about 21 min per image.**

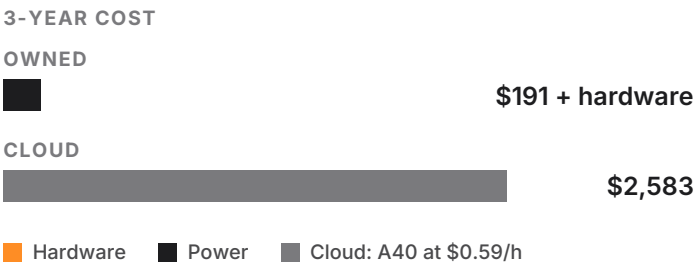
## VALIDATION

| CHECK | TARGET | RESULT | STATUS |
|---|---|---|---|
| Fits in GPU memory | 384 GB usable | 49.6 GB needed | PASS |
| Headroom | 5% free | 334 GB free (87%) | PASS |
| Time per image | under 30 s | 21 min | FAIL |

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 | $64 · 243 W at the wall |
| CLOUD INSTEAD, PER YEAR | $861 |
| 3-YEAR TOTAL, OWNED | Hardware + $191 power |
| 3-YEAR TOTAL, CLOUD | $2,583 |
| 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 · IMAGE GENERATION

# Qwen Image 2512

on M3 Ultra 512 GB · 16-bit (BF16)

## SETUP

| | |
|---|---|
| PARAMETERS | 20.4B |
| PRECISION | 16-bit (BF16) |
| OUTPUT | 1328 × 1328 |
| STEPS | 50 |
| HARDWARE | M3 Ultra 512 GB |
| GPU CAN USE | 384 GB of 512 GB |

## MEMORY

| | |
|---|---|
| WEIGHTS | 45.8 GB |
| WORKING | 3.0 GB |
| RUNTIME | 819 MB |
| SYSTEM | 128 GB |
| FREE | 334 GB |

## SAME MODEL, OTHER MACHINES

| | |
|---|---|
| RTX 4090 | 8-bit · 3.5 min |
| RTX 5090 | 8-bit · 2.7 min |
| RTX PRO 6000 BLACKWELL | 16-bit · 70 s |
| M5 MAX 128 GB | 16-bit · 11 min |
| DGX SPARK 128 GB | 16-bit · 9.2 min |
| RYZEN AI MAX+ 395 128 GB | 16-bit · 17 min |
| DGX STATION GB300 | 16-bit · 15 s |

## WHERE TO GET IT

| | |
|---|---|
| OFFICIAL | huggingface.co/Qwen/Qwen-Image-2512 |

## 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-1J4LXJN, generated November 22, 2026.