GPUpartner

VALIDATION REPORT · IMAGE GENERATION

Qwen Image 2512

on M5 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 M5 Ultra 512 GB, about 6.6 min per image.

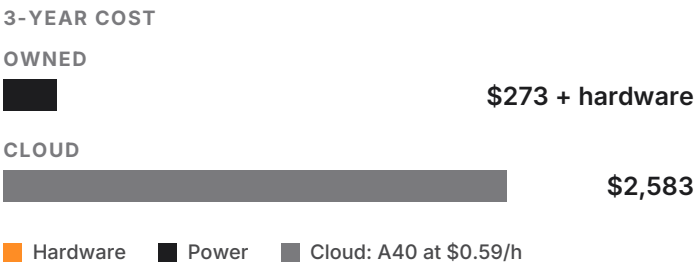
VALIDATION

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	6.6 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	$91 · 347 W at the wall
CLOUD INSTEAD, PER YEAR	$861
3-YEAR TOTAL, OWNED	Hardware + $273 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 M5 Ultra 512 GB · 16-bit (BF16)

SETUP

PARAMETERS	20.4B
PRECISION	16-bit (BF16)
OUTPUT	1328 × 1328
STEPS	50
HARDWARE	M5 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
M3 ULTRA 256 GB	16-bit · 21 min
DGX SPARK 128 GB	16-bit · 9.2 min
RYZEN AI MAX+ 395 128 GB	16-bit · 17 min

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-1T27RSN, generated November 22, 2026.