GPUpartner

VALIDATION REPORT · IMAGE GENERATION

Qwen-Image 2.1

on L40S · 16-bit (BF16)

STATUS · NOV 22, 2026

Validated with conditions

2 of 3 checks pass

Qwen-Image 2.1 at 16-bit runs on the L40S, about 42 s per image.

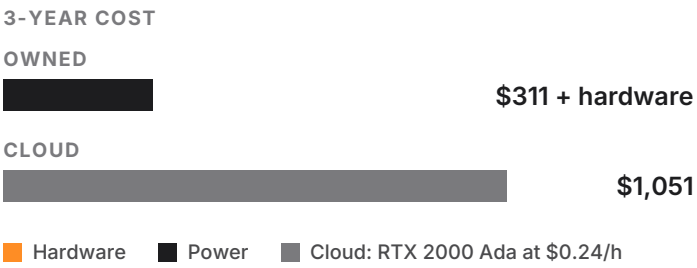
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	48.0 GB usable	15.1 GB needed	PASS
Headroom	5% free	32.9 GB free (69%)	PASS
Time per image	under 30 s	42 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	$104 · 395 W at the wall
CLOUD INSTEAD, PER YEAR	$350
3-YEAR TOTAL, OWNED	Hardware + $311 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 · IMAGE GENERATION

Qwen-Image 2.1

on L40S · 16-bit (BF16)

SETUP

PARAMETERS	7.1B
PRECISION	16-bit (BF16)
OUTPUT	2048 × 2048
STEPS	40
HARDWARE	L40S
GPU CAN USE	48.0 GB of 48.0 GB

MEMORY

WEIGHTS	13.3 GB
WORKING	1.0 GB
RUNTIME	819 MB
SYSTEM	0.0 GB
FREE	32.9 GB

SAME MODEL, OTHER MACHINES

RTX 4090	16-bit · 1.5 min
RTX 5090	16-bit · 72 s
RTX PRO 6000 BLACKWELL	16-bit · 31 s
M5 MAX 128 GB	16-bit · 4.7 min
M3 ULTRA 256 GB	16-bit · 9.1 min
DGX SPARK 128 GB	16-bit · 4.0 min
RYZEN AI MAX+ 395 128 GB	16-bit · 7.1 min

WHERE TO GET IT

FP8	huggingface.co/unsloth/Qwen-Image-2.1-FP8
GGUF	huggingface.co/unsloth/Qwen-Image-2.1-GGUF
OFFICIAL	huggingface.co/Qwen/Qwen-Image-2.1

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-0HKXW9N, generated November 22, 2026.