GPUpartner

VALIDATION REPORT · IMAGE GENERATION

Qwen Image 2512

on Arc B580 · 16-bit (BF16)

STATUS · NOV 22, 2026

Not validated

0 of 2 checks pass

Qwen Image 2512 at 16-bit needs 39.2 GB; the Arc B580 can use 12.0 GB. The smallest machine we checked that runs it is the RTX PRO 5000 Blackwell 48 GB.

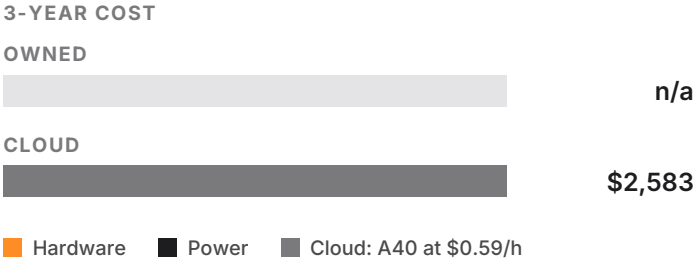
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	12.0 GB usable	39.2 GB needed	FAIL
Headroom	5% free	none	FAIL
Time per image	under 30 s	–	NOT TESTED

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	Doesn't run on this machine
CLOUD INSTEAD, PER YEAR	$861
3-YEAR TOTAL, OWNED	n/a
3-YEAR TOTAL, CLOUD	$2,583
BREAK-EVEN	n/a



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 Arc B580 · 16-bit (BF16)

SETUP

PARAMETERS	20.4B
PRECISION	16-bit (BF16)
HARDWARE	Arc B580
GPU CAN USE	12.0 GB of 12.0 GB

MEMORY

WEIGHTS	38.1 GB
WORKING	347 MB
RUNTIME	819 MB
SYSTEM	0.0 GB
OVER BY	27.2 GB

SUGGESTED CHANGES

SPILL TO RAM	Runs, slower, 13 min an image
RTX PRO 5000 BLACKWELL 48 GB	Runs it, 2.2 min an image
M5 ULTRA · 96 GB	Runs it, 6.6 min an image
RYZEN AI MAX+ 395 · 96 GB	Runs it, 17 min an image

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-071GZD6, generated November 22, 2026.