GPUpartner

VALIDATION REPORT · VIDEO GENERATION

MiniMax H3

on M5 Max 128 GB · 16-bit (BF16)

STATUS · OCT 22, 2026

Validated with conditions

2 of 3 checks pass

MiniMax H3 at 16-bit runs on the M5 Max 128 GB, about 18 min per clip.

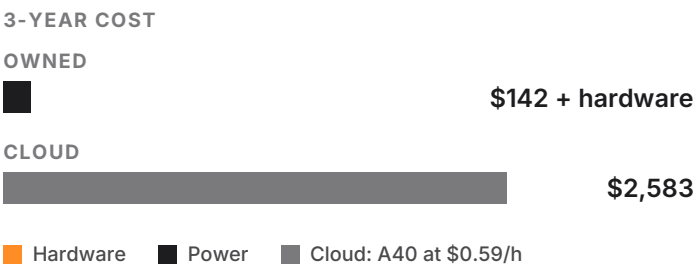
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	96.0 GB usable	72.3 GB needed	PASS
Headroom	5% free	23.7 GB free (25%)	PASS
Time per clip	under 15 min	18 min	CAUTION

Targets: a clip in under 15 min, and 5% of memory left free. Calculated from published specs, not benchmarked.

BUDGET

HARDWARE, ONE-TIME	MSRP not entered
POWER, PER YEAR	$47 · 180 W at the wall
CLOUD INSTEAD, PER YEAR	$861
3-YEAR TOTAL, OWNED	Hardware + $142 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 Oct 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 · VIDEO GENERATION

MiniMax H3

on M5 Max 128 GB · 16-bit (BF16)

SETUP

PARAMETERS	20.1B
PRECISION	16-bit (BF16)
OUTPUT	1360 × 768, 121 frames
STEPS	20
HARDWARE	M5 Max 128 GB
GPU CAN USE	96.0 GB of 128 GB

MEMORY

WEIGHTS	68.5 GB
WORKING	3.0 GB
RUNTIME	819 MB
SYSTEM	32.0 GB
FREE	23.7 GB

SAME MODEL, OTHER MACHINES

RTX 4090	Too big
RTX 5090	8-bit · 4.9 min
RTX PRO 6000 BLACKWELL	16-bit · 2.2 min
M3 ULTRA 256 GB	16-bit · 35 min
DGX SPARK 128 GB	16-bit · 16 min
RYZEN AI MAX+ 395 128 GB	16-bit · 28 min
DGX STATION GB300	16-bit · 43 s

WHERE TO GET IT

FP8	huggingface.co/Comfy-Org/MiniMax-H3
NVFP4	huggingface.co/lilcheaty/MiniMax-H3-NVFP4
GGUF	huggingface.co/Abiray/MiniMax-H3-GGUF
OFFICIAL	huggingface.co/MiniMaxAI/MiniMax-H3

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 Oct 2026; cloud prices are RunPod's on-demand list as of Oct 22, 2026. Report VR-1K5MEY2, generated October 22, 2026.