

# GIGABYTE RTX 4070 Ti EAGLE

GV-N407TEAGLE-12G

GRAPHICS PROCESSOR <b>AD104</b>	CORES <b>7680</b>	TMUS <b>240</b>	ROPS <b>80</b>	MEMORY SIZE <b>12 GB</b>	MEMORY TYPE <b>GDDR6X</b>	BUS WIDTH <b>192 bit</b>
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Graphics Processor	
GPU Name:	<a href="#">AD104</a>
GPU Variant:	AD104-400-A1
Architecture:	<a href="#">Ada Lovelace</a>
Foundry:	TSMC
Process Size:	4 nm
Transistors:	35,800 million
Density:	121.4M / mm <sup>2</sup>
Die Size:	295 mm <sup>2</sup>

Graphics Features	
DirectX:	12 Ultimate (12_2)
OpenGL:	4.6
OpenCL:	3.0
Vulkan:	1.3
CUDA:	8.9
Shader Model:	6.7

Graphics Card	
Release Date:	Jan 3rd, 2023
Availability:	Jan 5th, 2023
Generation:	<a href="#">GeForce 40</a>
Predecessor:	<a href="#">GeForce 30</a>
Production:	Active
Bus Interface:	PCIe 4.0 x16

Board Design	
Slot Width:	Triple-slot
Length:	301 mm 11.9 inches
Width:	136 mm 5.4 inches
Height:	58 mm 2.3 inches

Clock Speeds	
Base Clock:	2310 MHz
Boost Clock:	2610 MHz
Memory Clock:	1313 MHz 21 Gbps effective

Render Config	
Shading Units:	7680
TMUs:	240
ROPs:	80
SM Count:	60
Tensor Cores:	240
RT Cores:	60
L1 Cache:	128 KB (per SM)
L2 Cache:	48 MB

Memory	
Memory Size:	12 GB
Memory Type:	GDDR6X
Memory Bus:	192 bit
Bandwidth:	504.2 GB/s

Theoretical Performance	
Pixel Rate:	208.8 GPixel/s
Texture Rate:	626.4 GTexel/s
FP16 (half):	40.09 TFLOPS
FP32 (float):	40.09 TFLOPS
FP64 (double):	626.4 GFLOP (1:64)