

GPU Database B100 Specs

NVIDIA B100

GB102 x2

GRAPHICS PROCESSOR

16896 x2

528 x2

TMUS F

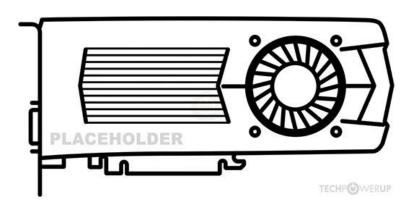
24 x2 ROPS 96 GB x2

MEMORY SIZE

HBM3e
MEMORY TYPE

4096 bit x2

BUS WIDTH



The B100 is a professional graphics card by NVIDIA, launched in November 2024. Built on the 5 nm process, and based on the GB102 graphics processor, the card does not support DirectX. Since B100 does not support DirectX 11 or DirectX 12, it might not be able to run all the latest games. B100 combines two graphics processors to increase performance. It features 16896 shading units, 528 texture mapping units, and 24 ROPs, per GPU. Also included are 528 tensor cores which help improve the speed of machine learning applications. NVIDIA has paired 192 GB HBM3e memory with the B100, which are connected using a 4096-bit memory interface per GPU (each GPU manages 98,304 MB). The GPU is operating at a frequency of 1665 MHz, which can be boosted up to 1837 MHz, memory is running at 2000 MHz.

Being a sxm module card, its power draw is rated at 1000 W maximum. This device has no display connectivity, as it is not designed to have monitors connected to it. B100 is connected to the rest of the system using a PCI-Express 5.0 x16 interface

Graphics Processor Graphics Card Clock Speeds

GPU Name:	<u>GB102</u>	Release Date:	Nov 2024	Base Clock:	1665 MHz
Architecture:	<u>Blackwell</u>	Announced:	Mar 18th, 2024	Boost Clock:	1837 MHz

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Foundry:	TSMC		Gene	ration:	Server Blackwell (Bxx)			
Process Type:	4NP FinFET		Prede	ressor.	Server Hopper			
Process Size:	5 nm			uction:				
Transistors:	Transistors: 104,000 million			uction.	Active			
	10 1/000 111111011		Bus Inte	erface:	PCle 5.0 x16			
Die Size: unknown				Render Config				
Theoretical	Performance		Shading	Units:	16896	x2		
Pixel Rate:	44.09 GPixel/s	x2		TMUs:	528	x2		
Texture Rate:	969.9 GTexel/s	x2		ROPs:	24	x2		
FP16 (half):	248.3 TFLOPS	x2						
	(4:1)		SM	Count:	132	x2		
FP32 (float):	62.08 TFLOPS	x2	Tensor	Cores:	528	x2		
FP64 (double):	31.04 TFLOPS (1:2)	x2	L1	Cache:	256 KB (per SM)	x2		
	(1.2)		L2	Cache:	50 MB	x2		

Memory Clock:	2000 MHz 8 Gbps effective
Mei	mory
Memory Size:	96 GB
Memory Type:	НВМ3е
Memory Bus:	4096 bit
Bandwidth:	4.10 TB/s
Board	Design
Slot Width:	SXM Module
TDP:	1000 W
Suggested PSU:	1400 W
Outputs:	No outputs

Graphics Features

DirectX:	N/A
OpenGL:	N/A
OpenCL:	3.0
Vulkan:	N/A
CUDA:	10.1
Shader Model:	N/A

Card Notes

Placeholder

GB102 GPU Notes

Tensor Cores: 5th Gen
NVENC: No Support
NVDEC: No Support
PureVideo HD: VP11
VDPAU: Feature Set K

Most specs unknown

Placeholder

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