



SPECIFICATIONS

Marketing Name	GeForce RTX™ 5080 16G VENTUS 3X OC
Model Name	G5080-16V3C
Cores	10752 Units
Memory	16GB GDDR7
Memory Bus	256-bit
Power connectors	16-pin x 1 (ATX 3.1 PSU recommended)
Recommended PSU	850 W
Motor Gráfico	NVIDIA® GeForce RTX™ 5080
Bus Standard	PCI Express® Gen 5
Card Dimension (mm)	303 x 121 x 49 mm
DirectX Version Support	12 Ultimate
Reloj de Núcleo	Extreme Performance: 2655 MHz (MSI Center) Boost: 2640 MHz
Velocidad de Memoria	30 Gbps
Maximum Displays	4
G-SYNC™ technology	Y
Output	DisplayPort x 3 (v2.1b) HDMI™ x 1 (As specified in HDMI™ 2.1b: up to 4K 480Hz or 8K 120Hz with DSC, Gaming VRR, HDR)
Soporte HDCP	Y
Power consumption (W)	360 W
Digital Maximum Resolution	7680 x 4320
Versión Soportada de OpenGL	4.6
Peso	1084 g / 1576 g

CONNECTIONS



1. DisplayPort
2. HDMI™

FEATURES



Triple Fan

Three fans and a huge heatsink ensure a cool and quiet experience for you.



TORX FAN 5.0

Fan blades linked by ring arcs and a fan cowl work together to stabilize and maintain high-pressure airflow.



Nickel-plated Copper Baseplate

Heat from the GPU and memory is swiftly captured by a nickel-plated copper baseplate and transferred.



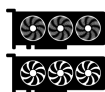
Core Pipes

Core Pipes feature a square design to maximize contact with the GPU baseplate for optimal thermal management.



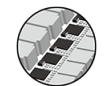
Metal Backplate

A sturdy metal backplate strengthens the graphics card while the airflow vent design reduces excess heat.



Zero Frozr

Zero Frozr is the calm before the storm, keeping fans still and maintaining silence until cooling is needed.



DrMOS

DrMOS power stage solutions provide great efficiency with low power loss and enhanced voltage controls.



Fuse

Additional fuses built into the custom PCB provide additional safeguards against electrical damage.



MSI Center

The exclusive MSI Center software lets you monitor, tweak and optimize MSI products in real-time.



Afterburner

Take full control with the most recognized and widely used graphics card overclocking software in the world.

Comparar
Tarjetas gráficas GeForce

Tecnologías

		RTX serie 50	RTX serie 40	
Arquitectura NVIDIA	Nombre de la arquitectura	Blackwell	Ada Lovelace	
	Multiprocesadores de streaming	2x FP32	2x FP32	
	Núcleos de trazado de rayos	Gen 4	Gen 3	
	Núcleos Tensor (IA)	Gen 5	Gen 4	
Plataforma	NVIDIA DLSS	DLSS 4 Superresolución DLAA Ray Reconstruction Frame Generation Multi Frame Generation	DLSS 3.5 Superresolución DLAA Reconstrucción de rayos Generación de fotogramas	Si / No
	NVIDIA Reflex	Reflex 2 Low Latency Mode Frame Warp (Coming Soon)	Reflex 2 Low Latency Mode Frame Warp (Coming Soon)	Lo / Alto
	NVIDIA Broadcast	Si	Si	
	NVIDIA App	Si	Si	
	Controladores Game Ready	Si	Si	
	Controladores de NVIDIA Studio	Si	Si	
	NVIDIA ShadowPlay	Si	Si	
	NVIDIA Highlights	Si	Si	
	NVIDIA Freestyle	Si	Si	
	VR Ready	Si	Si	
	NVIDIA Omniverse	Si	Si	
	RTX Remix	Si	Si	Si / No
Otras funciones	PCIe	Gen 5	Gen 4	
	Codificador NVIDIA (NVENC)	Gen 9	Gen 8	
	Descodificador de NVIDIA (NVDEC)	Gen 6	Gen 5	
	Codificación AV1	Si	Si	
	Descodificación +AV1	Si	Si	
	Capacidad CUDA	12,0	8,9	
	DX12 Ultimate	Si	Si	

Compara las especificaciones de la serie 50

	GeForce RTX 5090	GeForce RTX 5080	GeForce RTX 5070 Ti	GeForce RTX 5070	GeForce RTX 5060
Especificaciones del motor de GPU:					
Núcleos NVIDIA CUDA	21760	10752	8960	6144	
Núcleos de sombreado	Blackwell	Blackwell	Blackwell	Blackwell	Blackwell
Núcleos Tensor (AI)	5ª generación 3352 AI TOPS	5ª generación 1801 AI TOPS	5ª generación 1406 AI TOPS	5ª generación 988 AI TOPS	5ª generación 759 AI TOPS
Núcleos de trazado de rayos	4ª generación 318 TFLOPS	4ª generación 171 TFLOPS	4ª generación 133 TFLOPS	4ª generación 94 TFLOPS	4ª generación 72 TFLOPS

	GeForce RTX 5090	GeForce RTX 5080	GeForce RTX 5070 Ti	GeForce RTX 5070	GeForce RTX 5060
Frecuencia de reloj acelerada (GHz)	2.41	2.62	2.45	2.51	2.31
Frecuencia de reloj normal (GHz)	2.01	2.30	2.30	2.33	2.25
Especificaciones de la memoria:					
Configuración de memoria estándar	32 GB GDDR7	16 GB GDDR7	16 GB GDDR7	12 GB GDDR7	16 GB GDDR7
Ancho de la interfaz de memoria	512-bit	256-bit	256-bit	192-bit	192-bit
Pantallas:					
Resolución máxima y frecuencia de actualización ^a	4K a 480Hz u 8K a 165Hz with DSC	4K a 480Hz u 8K a 165Hz with DSC	4K a 480Hz u 8K a 165Hz with DSC	4K a 480Hz u 8K a 165Hz with DSC	4K a 480Hz u 8K a 165Hz with DSC
Conectores de pantalla	3x DisplayPort TM , 1x HDMI TM ^a	3x DisplayPort TM , 1x HDMI TM ^a	3x DisplayPort TM , 1x HDMI TM ^a	3x DisplayPort TM , 1x HDMI TM ^a	3x DisplayPort TM , 1x HDMI TM ^a
Capacidad multimonitor	up to 4 ^u	up to 4 ^u	up to 4 ^u	up to 4 ^u	up to 4 ^u
HDCP	2.3	2.3	2.3	2.3	2.3
Tecnologías compatibles:					
Arquitectura NVIDIA	Blackwell	Blackwell	Blackwell	Blackwell	Blackwell
Ray Tracing	Sí	Sí	Sí	Sí	Sí
NVIDIA DLSS	DLSS 4	DLSS 4	DLSS 4	DLSS 4	DLSS 4
NVIDIA Reflex	Reflex 2 (Coming Soon)	Reflex 2 (Coming Soon)	Reflex 2 (Coming Soon)	Reflex 2 (Coming Soon)	Reflex 2 (Coming Soon)
NVIDIA Broadcast	Sí	Sí	Sí	Sí	Sí
PCI Express Gen 5	Sí	Sí	Sí	Sí	Sí
Resizable BAR	Sí	Sí	Sí	Sí	Sí
NVIDIA App	Sí	Sí	Sí	Sí	Sí
NVIDIA FreeStyle	Sí	Sí	Sí	Sí	Sí
NVIDIA ShadowPlay	Sí	Sí	Sí	Sí	Sí
NVIDIA Highlights	Sí	Sí	Sí	Sí	Sí
NVIDIA G-SYNC	Sí	Sí	Sí	Sí	Sí
Game Ready Drivers	Sí	Sí	Sí	Sí	Sí
NVIDIA Studio Drivers	Sí	Sí	Sí	Sí	Sí
NVIDIA Omniverse	Sí	Sí	Sí	Sí	Sí
RTX Remix	Sí	Sí	Sí	Sí	Sí
Microsoft DirectX 12 Ultimate	Sí	Sí	Sí	Sí	Sí
NVIDIA GPU Boost [™]	Sí	Sí	Sí	Sí	Sí
NVIDIA NVLink [™] (SLI-Ready)	No	No	No	No	No
Vulkan 1.4, OpenGL 4.6	Sí	Sí	Sí	Sí	Sí
NVIDIA Encoder (NVENC)	3x Ninth Generation	2x Ninth Generation	2x Ninth Generation	1x Ninth Generation	1x Ninth Generation
NVIDIA Decoder (NVDEC)	2x Sixth Generation	2x Sixth Generation	1x Sixth Generation	1x Sixth Generation	1x Sixth Generation
AV1 Encode	Sí	Sí	Sí	Sí	Sí
AV1 Decode	Sí	Sí	Sí	Sí	Sí
CUDA Capability	12.0	12.0	12.0	12.0	12.0
VR Ready	Sí	Sí	Sí	Sí	Sí
Dimensiones de la tarjeta:					
Longitud	304 mm	304 mm	Varies by manufacturer	242 mm	Varies by manufacturer
Anchura	137 mm	137 mm	Varies by manufacturer	112 mm	Varies by manufacturer

	GeForce RTX 5090	GeForce RTX 5080	GeForce RTX 5070 Ti	GeForce RTX 5070	GeForce RTX 5060
Ranura	2-Slot	2-Slot	Varies by manufacturer	2-Slot	Varies by manufacturer
SFF-Ready Enthusiast GeForce Card	Founders Edition Yes Varies by manufacturer	Founders Edition Yes Varies by manufacturer	Varies by manufacturer	Founders Edition Yes Varies by manufacturer	Varies by manufacturer

**Especificaciones
térmicas y de
potencia:**

Temperatura máxima de la GPU (en °C)	90	88	88	85
Potencia gráfica total (W)	575	360	300	250
Potencia requerida del sistema (W) ¹	1000	850	750	650

1 - Hasta 4k HDR de 12 bits a 480 Hz con DP 2.1b + DSC o HDMI 2.1b + DSC. Hasta 8K HDR de 12 bits a 165 Hz con DP 2.1b + DSC. Hasta 8K HDR de 12 bits a 120 Hz con HDMI 2.1b + DSC. Con DP 2.1b dual + DSC, hasta 8K HDR a 100 Hz

2 - DisplayPort 2.1b with UHBR20: up to 4K 480Hz or 8K 165Hz with DSC

3 - As specified in HDMI 2.1a: up to 4K 480Hz or 8K 120Hz with DSC, Gaming VRR, HDR

4 - Multi Monitor:

- 4 independent displays at 4K 165Hz using DP or HDMI
- 2 independent displays at 4K 360Hz or 8K 100Hz with DSC using DP or HDMI
- Other display configurations may be possible based on available bandwidth

5 - Minimum is based on a PC configured with a Ryzen 9 9950X processor. Recommend PCIe CEM 5.1 compliant PSU. Power requirements can be different depending on system configuration.

Note: The above specifications represent this GPU as incorporated into NVIDIA's Founders Edition or reference graphics card design. Clock specifications apply while gaming with medium to full GPU utilization. Graphics card specifications may vary by add-in-card manufacturer. Please refer to the add-in-card manufacturers' website for actual shipping specifications.