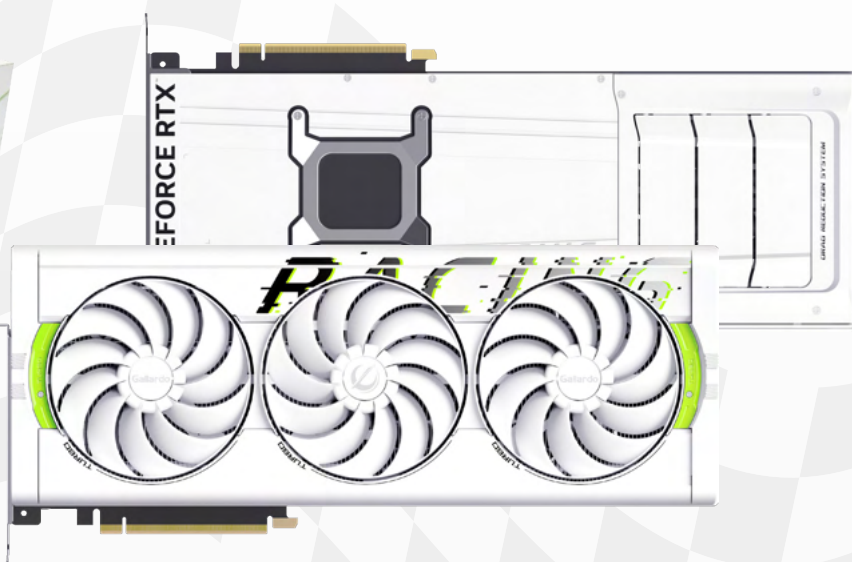


# Gallardo GeForce RTX™ 5090 OC



| Chipset            |                                      |
|--------------------|--------------------------------------|
| Product name       | Manli Gallardo W GeForce RTX 5090 OC |
| Part number        | M-N509GO/D732G-M3663                 |
| NVIDIA CUDA® Cores | 21760                                |

| GPU Clock |          |
|-----------|----------|
| Base      | 2017 MHz |
| Boost     | 2482 MHz |

| Graphics Processor |                        |
|--------------------|------------------------|
| Shader Cores       | Blackwell              |
| Tensor Cores (AI)  | 5th Gen / 3352 AI TOPS |
| RT Cores           | 4th Gen / 318 TFLOPS   |
| DLSS               | DLSS 4                 |

| Memory Specifications  |                 |
|------------------------|-----------------|
| Standard memory Config | 32GB GDDR7      |
| Memory clock           | 14000 MHz       |
| Memory bus width       | 512 bit         |
| Peak memory bandwidth  | Up to 1792 GB/s |
| Effective memory clock | 28.0 Gbps       |

| Display /Interface    |                 |
|-----------------------|-----------------|
| Maximum resolutions   | 7680 x 4320     |
| Display connectors    | HDMI + 3 x DP   |
| PCI express interface | PCI Express 5.0 |

| Thermal /Component power         |                                |
|----------------------------------|--------------------------------|
| TGP(Total Graphics Power)        | 600W                           |
| Slots                            | 3.5-Slot                       |
| Card dimension (Included fan)    | 370 x 159 x 69mm               |
| Card dimension (Without bracket) | 359 x 145 x 69mm               |
| Maximum GPU temperature          | 90 °C                          |
| Cooling design                   | VC Heatsink with Triple Cooler |
| Power connector                  | 1 x PCIe Gen5 16-pin           |

| Packaging          |                   |
|--------------------|-------------------|
| Box size           | 447 x 256 x 112mm |
| Product net weight | 2.62 kg           |

**3352**  
AI TOPS

**2017** MHz  
~  
**2482** MHz

**32** GB  
GDDR7

**Multiple**  
**ARGB**  
Lighting Control System

## System Requirement

- > PCI Express® graphics slot required
- > Internet connection and 2 GB available disk space for driver installation required
- > System space for a 4-slot card required
- > Recommend PCIe CEM 5.1 compliant PSU
- > 1000W system power supply required
- > 32 GB system memory recommended
- > Microsoft® Windows® 11 64-bit or Linux 64-bit

## Key Features

- > Dedicated Ray Tracing Cores
- > Dedicated Tensor Cores
- > NVIDIA DLSS
- > Game Ready and NVIDIA Studio Drivers
- > NVIDIA® App
- > NVIDIA Broadcast
- > NVIDIA G-SYNC®
- > NVIDIA GPU Boost™
- > PCI Express® Gen 5
- > Microsoft DirectX® 12 Ultimate
- > Vulkan 1.4, OpenGL 4.6
- > HDCP 2.3
- > DisplayPort 2.1b with UHBR20: up to 4K at 480Hz or 8K 165Hz with DSC
- > As specified in HDMI 2.1b: up to 4K 480Hz or 8K 120Hz with DSC, Gaming VRR, HDR
- > Support Smart Voice Lighting Control, Windows 11 Dynamic Lighting and motherboard RGB lighting control
- > Fan-stop function at idle state to reduce noise and conserve energy

## Included In The Box

- > Car plate sticker
- > Lighting connection cable
- > Graphics card manual
- > Smart voice lighting control system manual
- > Airflow Diffusion System
- > 16PIN to 4\*8PIN power cable
- > Graphics card supporting pole