


High performance tower graphics workstation W290Q3

Product Overview

W290Q3 adopts the latest AMD epyc™ 7000 series which is based on the latest SOC architecture, provides a new level of cost performance, excellent core density, superior memory bandwidth and unparalleled I / O performance. Up to 64 processing cores and 128 threads are available on a single machine, which is 14% higher than the x86 processor of the same industry. It has "monster level" computing processing capacity. It supports up to 2TB of memory at most, uses advanced DDR4 memory, greatly improves the memory bandwidth, and is more suitable for graphics rendering, multimedia editing and other processing work. It can flexibly expand the full height and full-length PCI-E expansion slot, support multiple professional graphics cards at the same time, and enhance the graphics processing ability. It is an excellent, safe and reliable graphics workstation.

Application scenarios:

Industrial design, graphics rendering, animation, finance, middle end CAD and EDA simulation.

Appearance	Description
 <p>High performance tower graphics workstation W290Q3</p>	<ul style="list-style-type: none">● Based on the new AMD EPYC™ 7000 series architecture.● Single processor up to 32 cores, 64 threads, three-level cache up to 64MB● Make full use of multiple professional graphics processors (GPU) to intelligently expand application performance● Support OPEN GL 4.0 professional graphics processing

Key Features and Highlights

Advanced architecture

The new architecture of AMD EPYC™ 7000 series breaks through AMD's traditional single core and single thread technology, and adopts advanced hyper thread technology. A single processor has 32 cores, 64 threads, and a three-level cache of 64MB. The memory channel is upgraded to 8, the maximum frequency is 2666 MHz, and the maximum memory capacity is 4 times that of the previous generation; New generation AMD EPYC™ series chipsets are directly embedded in the processor, with more powerful expansion performance, it can expand multiple high-speed interfaces such as sata3.0, USB3.0, m.2, nvme, etc.

Multi graphics card technology

NVIDIA® Multi GPU Technology (NVIDIA)® Maximus®) It can make full use of multiple professional graphics processors (GPUs) to intelligently expand the application performance and greatly speed up the workflow. By combining the processing capacity of two or more professional GPUs, the multi GPU system can provide high-performance graphics and parallel processing, which can help thoroughly change the features of video editing, special effects, digital animation, image processing, rendering and media production workflow.

Professional graphic production platform

It supports OPEN GL 4.0 professional graphics processing, and users can find special optimization settings of corresponding application software in hardware settings; It not only supports the OPEN GL professional 3D graphics interface library, but also supports the underlying graphics interface application software of Direct X. Engineering design, high-speed graphics engine and other applications need a stable and scalable graphics workstation platform, with professional Quadro FX graphics card and synchronous Sync sub card, which can run multiple workstations synchronously to meet the needs of special graphics applications.

Specifications

Model	W290Q3
CPU	AMD EPYC™ 7000 series, maximum support 1 Maximum support TDP, please consult DCN technical support
Chipset	System on chip
System Bus	PCI-E 3.0 x128
Memory properties	8 DIMM slots, support 2933/2666 /2400/2133 MHz ECC DDR4 memory, up to 1TB RECC memory
Hard disk	6* 3.5" SATA/SAS hot-swap hard disks, 2*2.5" SSD system disks
Integrated chip	1.Integrated display chip;2. Integrated BMC management chip;3.Integrated 2 gigabit network ports;4.Integrated RAID 0,1,10 functions (only for Windows), optional hard raid function;5. Integrated 7.1 sound card
Expansion slot	3* PCI-E 3.0 x16,3* PCI-E 3.0 x8,1* M.2 slot
GPU	Support 1 GPU cards
Peripheral Interface	Front: 2*USB2.0 Rear: 1*console,1*VGA, 2*USB3.0+2*USB2.0 2*RJ45 network ports, 1*dedicated remote management interface
CD drive	SATA interface DVD-RW is optional
Power Supply	Standard output power 750W gold single power supply, AC power input 100-240V, 50-60Hz
Working environment	Operating temperature 10 °C ~ 35 °C, relative humidity 20% ~ 80% (non condensing) Non operating temperature - 40 °C ~ 60 °C, relative humidity 5% ~ 95% (non condensing)
Operating system	Microsoft Windows 8.1/10 & Server 2012R2/2016R2 x86-64 RedHat 6.9 /7.3 x86-64, CentOS 6.9 /7.3 x86-64, SUSE SLES 11 SP4/12 SP2 x86-64 Vmware ESXi 6.5, XenServer 7.1
Dimensions	Tower,550D * 235W * 535 H (mm)