INTEL Z490 GAMING PC

CYBERPOWER INFINITY 910 RTX / £2,099 inc VAT

SUPPLIER cyberpowersystem.co.uk

CyberPower's Infinity 910 RTX CyberPower packs in an awful lot of hardware considering its £2,099 price, including an RTX 3080 graphics card. The card inside this machine is an MSI Ventus 3X 10G OC model, with three beefy fans, a subtle industrial design and a boost clock that's been improved from 1710MHz to 1740MHz. More importantly, it's based on Nvidia's new Ampere architecture, with 8,704 CUDA cores and 10GB of GDDR6X memory.

Meanwhile, the Core i9-10850K processor is the new cut-price 10-core CPU in Intel's Comet Lake Core i9 range, but the specification remains impressive. It has ten Hyper-Threaded cores, a base speed of 3.6GHz and a turbo peak of 5.1GHz that rises to 5.2GHz with TVB.

Those speeds are only 100MHz behind Intel's Core i9-10900K. CyberPower has paired this high-end chip with 16GB of 3200MHz memory, a 500GB WD Black SN750 NVMe SSD and a 2TB hard disk, and it's all powered by a Corsair RM850x PSU, which has an 80 Plus Gold certification and a modular design.

It's all plugged into an MSI MPG Z490 Gaming Carbon WiFi motherboard, which has two M.2 connectors with heatsinks, a pair of spare DDR4 slots, and free 16x and 1x PCI-E 3 slots.

Connection options are good too, with 2.5Gbps Ethernet, dual-band Wi-Fi 6 and Bluetooth 5.1, alongside four USB 3.2 Gen 2 connectors and a faster USB 3.2 Gen 2x2 Type-C port. It's also good to see a decent ALC1220 audio codec, and ample on-board fan and USB connectors. The only key missing features are PCI-E 4 support, and any on-board buttons and displays.

All this gear is housed in an NZXT H511 chassis, which is a modified version of the common H510, although disappointingly, it lacks a USB Type-C port. Elsewhere, build quality is solid and it looks smart, with a sleek front panel, clean lines and a tempered glass side panel. The 210mm width and 460mm height make it relatively compact too.

In the front of the case, you'll find a Cooler Master MasterLiquid Lite radiator with two 120mm fans, while two more 120mm fans function as roof and rear-mounted exhausts. All four fans have customisable lighting, and they're programmed to rotate through a swathe of bright colours alongside two case-mounted strips of RGB LEDs.

CyberPower has kept the cabling tidy around the front, even if the NZXT's modest size means the insides are a little cramped. Around the rear, the build remains neat thanks to fastidious cabling, and there's space for one spare 3.5in drive and two 2.5in drives. There's also a control box with space for three more synchronised fans.

CyberPower's machine is covered by a three year labour warranty with two years of parts coverage, which is good, although you only get six months of collect and return service. As a point of comparison, this PC is £300 cheaper than last month's Scan 3XS Vengeance XTi iCUE, which had a stock-speed RTX 3080 alongside a 12-core AMD Ryzen 9 3900X and a motherboard with slightly poorer connection options. Scan's system justified its higher price with the extra multi-threaded CPU power, its PCI-E 4 SSD and a better warranty, but the CyberPower offers a decent saving if gaming performance is your priority.

SPEC

CPU
3.6GHz Intel Core i9-10850K

Motherboard
MSI MPG Z490 Gaming Carbon WiFi

Memory
16GB Corsair Vengeance LPX Black 3200MHz DDR4

Graphics
MSI GeForce RTX 3080 Ventus 3X 10G OC

Storage
500GB WD Black SN750 M.2 SSD, 2TB Seagate Barracuda hard drive

Networking
2.5Gbps Ethernet, dual-band 802.11ax Wi-Fi, Bluetooth 5.1

Case
NZXT H511

Cooling
CPU: Cooler Master MasterLiquid Lite 240 with 2 x 120mm fans; GPU: 2 x 90mm fans; roof: 1 x 120mm fan; rear: 1 x 120mm fan

PSU
Corsair RM850x 850W

Ports
Front: 1 x USB 3.2 Gen 2, 1 x USB 3.2 Gen 1, 1 x audio; rear: 4 x USB 3.2 Gen 2, 1 x USB 3.2 Gen 2x2 Type-C, 2 x USB 2, 1 x PS/2, 1 x optical S/PDIF, 5 x audio

Operating system
Microsoft Windows 10 Home 64-bit

Warranty
Two years parts and labour, plus third year labour only. First six months collect and return, then return to base

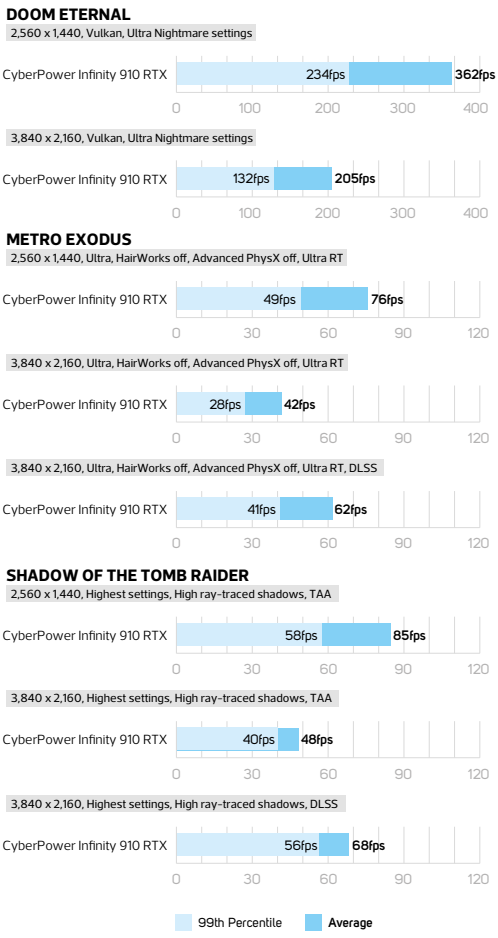
BUZZ LIGHTYEAR

+ Superb gaming speed
+ Neat and compact chassis
+ Solid component choices

BUZZ KILLER

- AMD Zen 3 CPUs now better than Intel
- A little too noisy
- Mediocre SSD

BENCHMARK RESULTS



60,302
GIMP IMAGE EDITING

754,057
HANDBRAKE H.264 VIDEO ENCODING

293,940
HEAVY MULTI-TASKING

286,013
SYSTEM SCORE

Performance

When running our test games at 4K, the CyberPower's 99th percentile minimum was an astounding 132fps in Doom Eternal, and it can handle ray-traced games at this setting if you enable DLSS too – even our hardcore Metro Exodus test on Ultra settings didn't drop below 41fps. If you play games at 2,560 x 1,440 then you'll have no trouble turning on all the eye candy, even without DLSS.

The Intel CPU and overclocked GPU help the CyberPower outpace last month's Scan PC in most games. However, the performance of AMD's latest Zen 3 silicon (see p16) means AMD can properly compete on this front now too, although the new Core i9-10850K is still competitive at this price.

Meanwhile, the new Intel CPU's image editing score of 60,302 is marginally better than that of the Ryzen 9 3900X used in Scan's machine, but behind the results from AMD's new Ryzen 9 5900X (see p18). The CyberPower was also 64,000 points behind the Scan in our heavily multi-threaded Handbrake video-encoding benchmark, which is no surprise given the Scan's two extra CPU cores.

Meanwhile, the SSD's read and write speeds of 2,327MB/sec and 1,006MB/sec are miles behind the pace delivered by the PCI-E 4 drives deployed on AMD platforms, although you rarely see these peak speeds outside of large-scale file transfers.

Finally, CyberPower's machine is an average thermal performer. There are no issues with the CPU and GPU delta Ts of 45°C and 53°C, but it's not particularly quiet. Whether it's idle or playing games, you can hear the noise made by this system.

Conclusion

The GeForce RTX 3080 is fantastic, and the CyberPower has a good motherboard, solid components and a compact, neat chassis. Intel may have lost its single-threaded performance lead to Zen 3, and the Ryzen 9 3900X and 5900X have two more cores for multi-threading performance too. However, the Core i9-10850K is still a cracking CPU for a gaming PC such as this one. If gaming is your top priority, then the CyberPower is a great system for the money.

MIKE JENNINGS

PERFORMANCE 24/25
DESIGN 22/25
HARDWARE 23/25
VALUE 22/25
OVERALL SCORE 91%

VERDICT

The RTX 3080 offers dazzling speeds, and this keenly priced PC is capable elsewhere too.