

Cyberpower Infinity X147 GRE Gaming PC

Intel's 14th generation Core i7 shows its power well in combination with a speedy AMD graphics card

SCORE ★★★★★

PRICE £1,666 (£1,999 inc VAT)
from pcpro.link/cyber352

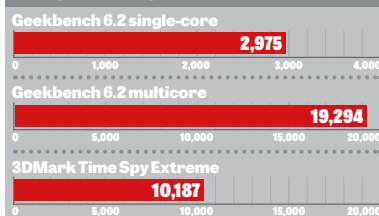
Although we think of gaming PCs as RGB monsters, am I alone in thinking they look best when lit in white? Especially so when you gaze into the innards of a powerhouse such as the Infinity X147 GRE and see braided matte black cables, Corsair Vengeance Black RAM and the looming black presence of AMD's RX 7900 GRE graphics card.

The GRE stands for Golden Rabbit Edition, and is only available to OEMs, but it might have been called an RX 7900 XT Lite. It has 80 rather than 84 ray-tracing units, 16GB of VRAM instead of 20GB (plus far less memory bandwidth), and a 2,245MHz boost clock to its brother's 2,400MHz. But it also costs less, giving system manufacturers a far cheaper option than the £800 RX 7900 XT.

The card is given every chance to shine thanks to Intel's Core i7-14700KF (see issue 351, p48), our pick of Intel's high-end lineup. We like it for eight high-performance cores, with a 5.6GHz boost for the strongest of them, while a dozen efficiency cores dispense with background tasks.

Cyberpower's choice of chip also means the AMD card will rarely be CPU-limited in games, and I was interested to see how it would cope at 1440p, this being AMD's target resolution for the GRE variant. The answer is storming. With all settings turned to the max, this machine averaged 165fps in *Shadow of the Tomb Raider*, 163fps in *Dirt 5* and 96fps in *F1 22*. Only *Metro Exodus Enhanced* proved a challenge, with 37fps at Extreme settings but a more than playable 60fps when I dropped down to Ultra.

BENCHMARKS



This places the system almost squarely between one powered by a GeForce RTX 4070 and a RTX 4070 Ti; or, in AMD terms, faster than the RX 6800 XT but well below the speeds I'd expect from an RX 7900 XT.

There is 4K gaming potential here, but you may need to drop the graphic options. *Metro* only played happily at High (57fps), while *F1 22* dropped to 51fps at its punishing Ultra High settings. Switching to High, however, pushed that up to 183fps, and you'll have no trouble hitting three digits in *Shadow of the Tomb Raider* and *Dirt 5*.

Away from gaming, this PC devours everything before it. Not surprising

ABOVE Run like lighting: plenty of power is on tap here

“The MSI motherboard is endowed with four M.2 slots. It's also superbly equipped when it comes to connectivity”

BELOW The large Lian Li chassis makes working inside easy



when you have 28 threads at your disposal: it raced through Cinebench R23's multicore benchmark with a score of 35,323, and fell just short of 20,000 in Geekbench 6.2. Cyberpower sensibly provides the 32GB of DDR5 memory across two 16GB DIMMs, leaving two spare sockets if you want to double this. The final part of the recipe is Samsung's ever-speedy 990 Pro SSD, with this 2TB variant delivering superb sequential read and write rates: 7,064MB/sec and 6,732MB/sec respectively.

The only downside is that the components require lots of cooling to keep them performing at their peak, and even at idle there's plenty of fan noise. It grows louder when playing games, but it's never intolerable and that's the price you pay for high-performance gaming. There's an electrical cost, too, with an average 98W draw at idle and a top draw of 518W.

With an 850W power supply in place, that leaves plenty of room for upgrades. And you have lots of choice. The large Lian Li chassis makes working inside easy, while the MSI motherboard is endowed with four M.2 slots (plus RAID support). Two PCI-E slots lie empty – one is blocked by the graphics card – and there's room for two 3.5in hard disks and two 2.5in SATA drives if you remove the right-hand panel.

This is also a superbly equipped motherboard when it comes to connectivity. A 2.5GbE port sits at the rear along with eight USB-A ports, plus two USB-C ports, one of which supports USB 3.2 Gen 2x2. There's also a USB-C slot (Gen 2) at the top of the chassis, along with two USB-A 2 ports and a 3.5mm jack. The real audio treat is at the back, with support for 7.1 setups and an S/PDIF output. Even the wireless is fast, with Wi-Fi 6E and Bluetooth 5.3 provided.

In short, you're buying an awful lot for your money, including a five-year warranty – and bear in mind that Cyberpower won this year's Excellence awards for reliability and support (see issue 351, p26). **TIM DANTON**

SPECIFICATIONS

20-core (8 P-cores, 12 E-cores) Intel Core i7-14700KF • MSI MAG Z790 Tomahawk WiFi motherboard • 32GB DDR5-4800 Corsair Vengeance Black RAM • 16GB AMD Radeon RX 7900 GRE graphics • CyberpowerPC Master Liquid Lite 360 ARGB AIO liquid cooler • 2TB Samsung 990 Pro PCI-E Gen 4 SSD • Lian Li Lancool 216 RGB chassis • 850W MSI MAG A850GL PSU • Windows 11 Home • 1yr Norton 360 Gamer • 235 x 480 x 491mm (WDH) • 2yr parts and labour C&R warranty (5yr labour-only RTB) • power: 98W idle, 518W peak