Smarter creates the future

ThinkStation. P620

AEC SOLUTION BRIEF

Lenovo

Meet the new ThinkStation P620
Redefining power, reliability, and speed for BIM

The Lenovo ThinkStation P620 sets a new performance benchmark; helping you better adopt emerging workflows and technologies for the built environment.

New design technologies continue to evolve for the built environment that extend what's possible with BIM. Emerging BIM workflows now adopt digital fabrication, real time visualization, artificial intelligence, robotics, generative design, VR, reality modelling, IoT and digital twins. These new workflows place even greater demand on workstation hardware.

As project size and complexity continue to evolve, power users need a solution that keeps pace with these scaling workloads. Designed specifically to provide fast, reliable processing power, the ThinkStation P620 not only meets but exceeds the requirements of these complex workflows. The first and only workstation powered by the AMD Ryzen™ Threadripper™ PRO processor, you can now have up to 64 cores, a new industry standard – redefining what can be accomplished with a single-CPU workstation.

AMD⊐
THREADRIPPER
PRO

Architecture, Enginnering, and Construction
P620 confirgurations for AEC workflows

Architects, Designers & Engineers

The combination of high core count, high clock speed and powerful graphics makes the P620 an ideal workstation for high-performance BIM, virtual collaboration, virtual and mixed reality, reality capture, and rendering. Coupled with Lenovo's legendary reliability, professional manageability and enterprise-class support, the P620 stretches the limits of your software to unleash your full potential.

Recommended configuration for BIM workflows:

CPU:	Threadripper PRO (12 cores @ 4GHz)
GPU:	NVIDIA RTX A4000 or A5000
Memory:	64GB, 3200MHz, ECC
SSD:	1TB M.2, NVMe

Visualization Specialists, AI & Data Scientists

With up to 64 cores and NVIDIA RTX™ A6000 graphics, the ThinkStation P620, is a powerful desktop workstation for visualization specialists, engineers, and data scientists challenged with the most demanding BIM workflows. From sophisticated pro visualization like real time rendering, virtual and mixed reality to processor intensive generative design, robotics driven fabrication and data science work loads, to IoT and the development of digital twins; the ThinkStation P620 delivers.

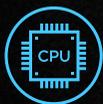**Recommended configuration for ProVis, VR, MR and AI workflows:**

CPU:	Threadripper PRO (32 or 64 cores)
GPU:	NVIDIA RTX A6000
Memory:	128GB, 3200MHz, ECC
SSD:	2TB M.2, NVMe SSD (cache/scratch)

Performance Gains for ISV applications include:

AUTODESK 3DS MAX · NEMETSCHEK GROUP · FARO · unity · Leica

AUTODESK MAYA · Bentley Sustaining Infrastructure · V-ray · Trimble · Rhino · UNREAL ENGINE

Transforming what is possible in a single-CPU workstation

From complex BIM, to generative design, reality capture, geospatial analysis, digital fabrication, and visualization the ThinkStation P620 enables high performance for emerging workflows and technologies for the built environment.

Max cores for one processor
First to harness the unique power of the AMD Ryzen Threadripper PRO processor, providing up to 64 cores and up to 4.0GHz clock speed.

Fast on-board connectivity
First to offer you 10Gb Ethernet as standard—for fast on-board connectivity without using a PCIe slot.

Fastest possible data I/O
First with PCIe Gen 4 support and up to 128 PCIe lanes. Up to 512GB ECC RAM over 8 channels and up to 20TB of storage.

Stunning NVIDIA® graphics
Powering the highest end graphics from NVIDIA, including support for dual RTX 8000 or the new A6000 GPUs, as well as support for up to four RTX 4000 GPUs.

AMD THREADRIPPER PRO

NVIDIA.

Stunning Visuals
Pair the ThinkStation P620 with dual P24q-20 or P27q-20 displays for optimal productivity and user experience, featuring QHD resolution, daisy-chain connectivity, and factory color calibration, our professional displays enable a great out-of-the-box experience with simplified set up and deployment.

Limitless Possibilities
Powered by NVIDIA's latest and most powerful workstation GPU, RTX A6000, the P620 offers high-performance real-time ray tracing, AI-accelerated computing, and professional graphics rendering; allowing you to get much more done, much faster.

Lenovo