
WORKSTATION RECOMMENDATIONS

A GUIDE TO HELP YOU CHOOSE THE
HARDWARE BEST SUITED FOR YOUR NEEDS







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This guide has been designed to help you choose the right hardware for your business needs. It's based on the hardware requirements for the software you use, as well as the performance level required for different workloads.

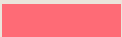
The recommended hardware has been categorised and ordered as below:


 Admin = Lowest specification for a modest / average user of everyday office applications. Intended for simple use such as data entry and browsing. Not suitable for CAD, Integrated graphics only.

 Entry = For everyday office applications, additionally equipped with entry level dedicated graphics to cover average use of a variety of 2D modelling applications, for example; draughting in AutoCAD / sketching with Adobe.

 Basic = For everyday office applications, with more modest graphics, upgraded from entry for more detailed draughting and to handle additional 3D use cases.


















 Standard = For most average design workloads and applications requiring mid-level graphics, and more demand on 3D rendering within AutoCAD. Working on average detail models of around 100MB-500MB within Revit.

 Advanced = For use with more graphics intensive applications, and a higher user performance requirement. Working on more complex models averaging at least 500MB+.

 Ultimate = For demanding work requiring cutting-edge, top-performing graphics and powerful processing. For a high intensity of work and high-end 3D rendering and virtual reality (VR) applications.

We recommend that you focus on your highest possible workload and base everything else on that. For instance if you work on both 100MB models and 500MB models, look at the hardware that is recommended for the higher workload. Or if you are a heavy Revit user, average AutoCAD user and average Office user, you will need a heavy specification system.

Start by looking at the software you use to determine the hardware best suited to your needs. If you are unsure about your project workloads or do not feel that these suggestions fit your specific requirements, please [get in touch](#) with us to discuss a bespoke configuration.

SOFTWARE	BUILD		
	MODEST	AVERAGE	DEMANDING
 <u>AutoCAD/LT</u> (2D Modelling)	Entry	Entry	Standard
 <u>AutoCAD</u> (3D Modelling)	Basic	Basic	Standard
 <u>Revit/LT</u>	Standard	Standard	Advanced
 <u>Navisworks</u>	Entry	Entry	Standard
 <u>3ds Max</u>	Advanced	Advanced	Ultimate
 <u>Inventor Pro</u>	Advanced	Advanced	Ultimate
 <u>SketchUp</u>	Entry	Entry	Standard
 <u>Enscape</u>	Standard	Advanced	Ultimate
 <u>Adobe Creative Cloud</u>	Entry	Basic	Standard
 <u>Microsoft Office Suite</u>	Admin	Admin	Basic
 <u>ACC / BIM 360</u>	Admin	Entry	Basic
 <u>Twinmotion</u>	Standard	Advanced	Ultimate
 <u>Unreal Engine</u>	Advanced	Ultimate	Ultimate
 <u>Alias</u>	Advanced	Ultimate	Ultimate
 <u>VRED</u>	Advanced	Ultimate	Ultimate
 <u>Unity</u>	Ultimate	Ultimate	Ultimate
 <u>V-Ray Vantage</u>	Ultimate	Ultimate	Ultimate

ADMIN BUILD



DELL OPTIPLEX

- Intel® Core™ i5-14500 Processor
14 Cores, up to 4.80 GHz
 - 8GB RAM
 - Integrated Graphics
Supports up to 3x Displays
 - 512GB M.2 NVMe SSD Storage
-

HP PRO TOWER 400 G9

- Intel® Core™ i5-14500 Processor
14 Cores, up to 4.80 GHz
- 8GB RAM
- Integrated Graphics
Supports up to 3x Displays
- 512GB M.2 NVMe SSD Storage



DELL LATITUDE 5540

- Intel® Core™ i5-1345U Processor
10 Cores, up to 4.70 GHz
 - 8GB RAM
 - Integrated Graphics
 - 512GB M.2 NVMe SSD Storage
-

HP PROBOOK 450 G10

- Intel® Core™ i5-1340P Processor
12 Cores, up to 4.60 GHz
- 8GB RAM
- Integrated Graphics
- 512GB M.2 NVMe SSD Storage



ENTRY BUILD



DELL PRECISION 3460

- Intel® Core™ i7 14700 Processor
20 Cores, up to 5.4 GHz
- 16GB RAM
- NVIDIA® T400, 4GB
Supports up to 3x Displays
- 512GB M.2 NVMe SSD Storage

HP Z2 MINI G9

- Intel® Core™ i7 14700 Processor
20 Cores, up to 5.4 GHz
- 16GB RAM
- NVIDIA® T400, 4GB
Supports up to 3x Displays
- 512GB M.2 NVMe SSD Storage



DELL PRECISION 3591

- Intel® Core™ Ultra 7 165H Processor
16 Cores, up to 5.0 GHz
- 16GB RAM
- Nvidia® RTX 500 Ada, 4GB
Supports up to 4x Displays
- 512GB M.2 NVMe SSD Storage

HP ZBOOK FIREFLY G11

- Intel® Core™ Ultra 7 165H Processor
16 Cores, up to 5.0 GHz
- 16GB RAM
- NVIDIA® A500, 4GB
Supports up to 4x Displays
- 512GB M.2 NVMe SSD Storage



BASIC BUILD



DELL PRECISION 3680

- Intel® Core™ i7 14700K Processor
20 Cores, up to 5.6 GHz
- 16GB RAM
- Nvidia® T1000, 8GB
Supports up to 4x Displays
- 512GB M.2 NVMe SSD Storage

HP Z2 MINI G9

- Intel® Core™ i7 14700K Processor
20 Cores, up to 5.6 GHz
- 16GB RAM
- NVIDIA® T1000, 8GB
Supports up to 4x Displays
- 512GB M.2 NVMe SSD Storage



DELL PRECISION 3591

- Intel® Core™ Ultra 7 165H Processor
16 Cores, up to 5.0 GHz
- 16GB RAM
- NVIDIA® RTX 1000, 6GB
- 512GB M.2 NVMe SSD Storage

HP ZBOOK STUDIO G11

- Intel® Core™ Ultra 7 165H Processor
16 Cores, up to 5.00 GHz
- 16GB RAM
- NVIDIA RTX 1000 Ada, 6GB
- 512GB M.2 NVMe SSD Storage



STANDARD BUILD



DELL PRECISION 3680

- Intel® Core™ i7 14700K Processor
20 Cores, up to 5.6 GHz
- 32GB RAM
- Nvidia RTX 2000 Ada, 16GB
Supports up to 4x Displays
- 512GB M.2 NVMe SSD Storage

HP Z2 MINI G9

- Intel® Core™ i7 14700K Processor
20 Cores, up to 5.6 GHz
- 32GB RAM
- Nvidia RTX 2000 Ada, 16GB
Supports up to 4x Displays
- 512GB M.2 NVMe SSD Storage



DELL PRECISION 5690

- Intel® Core™ Ultra 7 165H Processor
16 Cores, up to 5.0 GHz
- 32GB RAM
- NVIDIA® RTX A2000 Ada 8GB /
A3500 Ada 12GB
- 512GB M.2 NVMe SSD Storage Drive

HP ZBOOK POWER G11

- Intel® Core™ Ultra 7 165H Processor
16 Cores, up to 5.0 GHz
- 32GB RAM
- NVIDIA® RTX A2000 Ada 8GB /
A3000 Ada 8GB
- 512GB M.2 NVMe SSD Storage



ADVANCED BUILD



DELL PRECISION 3680

- Intel® Core™ i9 14900K Processor
24 Cores, up to 6.0 GHz
- 64GB RAM
- NVIDIA® RTX™ A4000, 20GB
Supports up to 4x Displays
- 1TB M.2 NVMe SSD Storage

HP Z2 MINI G9

- Intel® Core™ i9 14900K Processor
24 Cores, up to 6.0 GHz
- 64GB RAM
- NVIDIA® RTX™ A4000, 20GB
Supports up to 4x Displays
- 1TB M.2 NVMe SSD Storage



DELL PRECISION 7680

- Intel® Core™ i9-13950HX Processor
24 Cores, up to 5.50 GHz
- 64GB RAM
- NVIDIA A4000, 12GB
- 1TB M.2 NVMe SSD Storage

HP ZBOOK FURY G11

- Intel® Core™ i9-14900HX Processor
24 Cores, up to 5.80 GHz
- 64GB RAM
- NVIDIA RTX™ A4000 Ada, 12GB
- 1TB M.2 NVMe SSD Storage



ULTIMATE BUILD



DELL PRECISION 7960*

- Intel® Xeon® w7-3465X Processor
28 Cores, up to 4.80 GHz
- 128GB RAM
- NVIDIA® RTX™ A6000 Ada, 48GB
Supports up to 4x Displays
- 1TB M.2 NVMe SSD Storage

HP Z8 G5*

- Intel® Xeon® w7-3465X Processor
28 Cores, up to 4.80 GHz
- 128GB RAM
- NVIDIA® RTX™ A6000, 48GB
Supports up to 4x Displays
- 1TB M.2 NVMe SSD Storage



DELL PRECISION 7780

- Intel® Core™ i9-13950HX Processor
24 Cores, up to 5.50 GHz
- 64GB RAM
- NVIDIA® RTX™ 5000 Ada, 16GB
- 1TB M.2 NVMe SSD Storage

HP ZBOOK FURY G11

- Intel® Core™ i9-14900HX Processor
24 Cores, up to 5.80 GHz
- 64GB RAM
- NVIDIA® RTX™ 5000 Ada, 16GB
- 1TB M.2 NVMe SSD Storage



* Specialist higher tier builds and bespoke configuration available on request *

RACK MOUNT

DELL PRECISION 7960



- Intel® Xeon® Gold 6442Y Processor
24 Cores, up to 4.00 GHz
- 64GB Memory
- NVIDIA® RTX™ A6000 Ada, 48GB
- 1TB M.2 NVMe SSD Storage

** Other Dell systems can also be rack mounted within a rack mount kit available separately*

HP Z4R G5

- Intel® Xeon® Intel Xeon W7-2495X
24 Cores, up to 4.80 GHz
- 64GB Memory
- NVIDIA® RTX™ A6000, 48GB
- 1TB M.2 NVMe SSD Storage



** Other HP systems can also be rack mounted within a rack mount kit available separately*



REMOTE WORKING



For customers working in a remote/hybrid environment, please contact info@symetri.co.uk for more information on how Teradici or HP Anyware can allow users to work on even the most compute and graphics-intensive applications from pretty much any device and enjoy the same amazing user experience from anywhere.

For more information on hybrid working, read our e-Book on '[The Evolution of the Hybrid Working Model](#)'. This e-book presents a 'check-list' of those areas of your IT infrastructure which now merit revisiting, to help you make sure that the way your business works is aligned to how the new business world has evolved.



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