

VK8-680G

The VK8-680G with the Intel® Xeon® W-1300 series processor and NVIDIA® GeForce RTX™ 3070 GPU, the VK8-680G Workstation has all the computational and graphical power necessary to benefit engineers, architects, media, and other mission-critical roles to accelerate their workloads in ways that regular computers simply aren't capable of.

Powerful Processing

Certified for the best workstation applications, the **Intel® Xeon® W-1300 series processor** delivers superior reliability, unmatched processing power, performance, and advanced security technologies. For professionals like engineers, researchers, and designers, the Intel® Xeon® processor offers the power to optimize the heaviest of workloads.

Potent Productivity

This VK8-680G Workstation has the powerful graphical performance needed for professional applications ranging from 2D and 3D content creators to users of high-end CAD applications. Powered by an optional **NVIDIA® GeForce RTX™ 3070 GPU**, each workstation is built to maximize your productivity, so you can do more in less time.

Expandable Configuration

The VK8-680G is configurable to meet your specific needs with an up to 700W power supply, **up to 128 GB of DDR4 ECC memory**, and a multitude of solid-state or hard disk drive storage options. **Two M.2 PCIe solid state drive slot** embedded on the motherboard further lets you enjoy lightning-fast storage speeds, while also offering **dual RJ45 LAN ports for extra network flexibility and performance**.

Optimizing Cooling

Processor intensive applications such as rendering and video production will cause the processor and GPU to run hot, therefore it's essential that the cooling be the best it can be. The VK8-680G Workstation has **optimal thermal design and ventilation**, being cooled using **three fans to bring in and expel the air drawn in through the triangular front air panel after circulating it throughout the chassis**.

Independent Software Vendors (ISV)

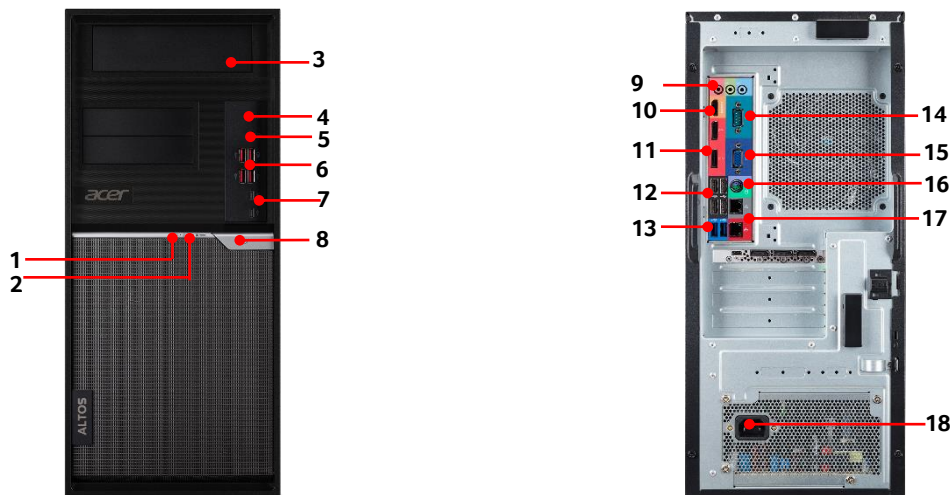
To meet the demands of **engineers, architects, videographers, cinematographers, 3D animators, AI professionals** and many more, a hardware solution that has been tested and certified by **Independent Software Vendors (ISVs)** is demanded. VK8-680G products, in specific model configurations, offer ISV certified hardware in combination with the most recent technologies.

Complete Connectivity

Hook up all your peripherals and accomplish more with a full range of ports, including a **USB Type-C™ port for 20Gbps data transfer**.



SPECIFICATION



Product views	1. One button recovery 2. Status LEDs 3. Optical media drive (optional) 4. Microphone-in jack	5. Headphone/speaker jack 6. Four USB 3.2 Gen 2 ports 7. One USB 3.2 Gen 2 Type C port and One USB 3.2 Gen 2x2 Type C 8. Power button 9. Audio jacks	10. HDMI® port 11. Two DisplayPorts™ 12. Four USB 2.0 ports 13. Two USB 3.2 Gen 1 Type A ports 14. COM (Serial) port	15. VGA port 16. PS/2 port 17. Ethernet (RJ-45) ports 18. Power connector (DC in)
Operating system ^{1,2}	Windows 10 Pro 64-bit UEFI Shell			
CPU and chipset ¹	Intel® Xeon® W-1390 processor, Intel® UHD Graphics P750 Intel® Xeon® W-1370 processor, Intel® UHD Graphics P750 Intel® Xeon® W-1350 processor, Intel® UHD Graphics P750 Chipset: Intel® W580 Chipset		11th Generation Intel® Core™ i9 / i7 / i5 vPro™ processor, Intel® UHD Graphics 750 11th Generation Intel® Core™ i9 / i7 processor, Intel® UHD Graphics 750 11th Generation Intel® Core™ i5 processor, Intel® UHD Graphics 750 / 730	
Memory ^{1,3,4}	32 GB / 16 GB / 8 GB DDR4 3200 MHz UECC UDIMM 32 GB / 16 GB / 8 GB / 4 GB DDR4 3200 MHz UDIMM Up to 128 GB of Dual-channel DDR4 MHz			
Storage ^{1,5}	Hard disk drive <ul style="list-style-type: none">• 2 TB / 1 TB / 500 GB 3.5-inch 7200 RPM• 1024 GB / 512 GB / 256 GB M.2 2280 PCI-E SSD• 1 TB 2.5-inch 5400 RPM, 7 mm high• 1024 GB / 512 GB M.2 2280 PCI-e Gen4 SSD• 500 GB 2.5-inch 5400 RPM			
Optical media drive	16X DVD-RW drive, tray-load, M-DISC Ready™			
Graphics ⁶	NVIDIA® GeForce RTX™ 3070 with 8 GB of GDDR6 NVIDIA® GeForce RTX™ 3060 Ti with 8 GB of GDDR6 NVIDIA® GeForce® GTX 1660 SUPER™ with 6 GB of GDDR6			
Audio	Integrated high-definition, 5.1-channel surround sound			
Communication	WLAN 802.11ax/ac/a/b/g/n, Wi-Fi 6 and Bluetooth® 5		LAN 2.5G Ethernet Gigabit Ethernet	
Expansion slot(s)	PCIe x16 slot: 2 (One of slots wired as x4) PCIe x1 slot: 1 PCI slot: 1		M.2 slot (for SSD): 2 (One of slots support Gen4 SSD) M.2 slot (for WLAN): 1	
Commercial features ^{7,8}	TPM v2.0 (Trusted Platform Module) Intrusion alert (via BIOS) One-button recovery (OBR) Kensington lock slot 100% solid capacitors		Intel® Active Management Technology Intel® vPro™ Technology PXE (Preboot eXecution Environment) RAID support (via BIOS) WOL (Wake On Lan) Internal speaker Dust filter	
Commercial selected options ⁸	Parallel (printer) port COM (Series) port			
Dimensions	200 (W) x 344.5 (D) x 450 (H) mm (7.87 x 13.56 x 17.72 inches)			
Power supply and adapter	Power supply 700 W single-rail 12 V PFC (EuP), auto-sensing, 80PLUS® Gold 500 W PFC, auto-sensing, 80PLUS® Gold, ATX			
System compliance	RoHS, DMI, GS, ENERGY STAR®, PC2001			
Options and accessories	Wireless (2.4 GHz RF) keyboard and mouse USB keyboard and mouse PS/2 keyboard and mouse			
Certification	CE, FCC, CB, BSMI			

1. Specifications vary depending on model.

2. 64-bit software is required to enjoy the advantages of 64-bit processing.

3. A 64-bit operating system is required to enjoy the ultimate performance of 4 GB or higher memory.

4. Memory speed may vary, depending on the CPU, chipset or memory fitted.

5. 1 GB is 1 billion bytes. Actual formatted capacity is less and may vary depending on preloaded materials and operating environment. Recovery Management uses a portion of the stated hard disk capacity as dedicated backup space.

6. Total available graphics memory comprises dedicated video memory, system memory, and shared system memory. This figure will vary depending on system memory, installed drivers, BIOS settings and other factors.

7. Intel® AMT is a feature of Intel® Core™ processors with Intel® vPro™ Technology

8. Intel® vPro™ technology is sophisticated and requires setup and activation. Availability of features and results will depend upon the setup and configuration of your hardware, software, and IT environments. To learn more visit: www.intel.com/content/www/us/en/architecture-and-technology/vpro/vpro-technology-general.html.

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