Powerful performance with Intel® Xeon® W processor and ECC memory

HIGHLIGHTS

- Powerful performance with Intel® Xeon® W processor and ECC memory

- Multiple graphics card support

- Ultrafast storage and I/O options

- Independent software vendor (ISV) certification

- Outstanding audio for content creators

- Comprehensive IT infrastructure management software —ASUS Control Center IT management software and ASMB9-iKVM module support

- Dual Intel server- class Gigabit LAN

Powerful performance with Intel® Xeon® W processor and ECC memory

ESC700 G4 supports Intel® Xeon® W series processors to deliver powerful, optimized performance in always-on usage scenarios. Support for Error-Correcting Code (ECC) memory enables automatic detection and repair of single-bit memory errors, reducing the chance of system crashes and data corruption to ensure reliable and responsive workstation performance.

Multiple graphics card support

ESC700 G4 supports an NVIDIA® Quadro® or AMD® Radeon™ Pro graphics card, making it the perfect workstation for content creators, media streamers and professional designers.

Dual onboard M.2 slots and M.2 heatsink

Dual onboard M.2 slots support up to 22110-length SSDs and operate at PCIe Gen 3 x4 link speeds to provide an abundant 32Gbps of bandwidth for up to 5.3X faster performance than traditional SSDs.

10Gbps USB 3.0

With backward-compatible USB 3.1 Type-A and reversible USB 3.1 Type-C ports, ESC700 G4 provides ultimate connection flexibility and data-transfer speeds of up to 10Gbps — twice as fast as USB 3.0.

Outstanding audio for content creators

ESC700 G4 features the Realtek® S1220A audio codec, delivering pristine audio quality with an unprecedented 120dB signal-to-noise ratio for stereo line-out and an 113dB SNR for line-in.

Dual Intel® server-class Gigabit LAN

For more reliable networking, ESC700 G4 features the latest server-class dual Intel® Gigabit LAN, ensuring lower CPU utilization and temperatures, outstanding performance and better support for diverse operating systems. The dual Ethernet ports also support teaming, which combines the network links to provide higher throughput or redundancy in case of port failure.

Independent software vendor (ISV) certification

Independent software vendor (ISV) software is becoming an important factor to users in variety of industries. ASUS works in close partnership with ISV vendors, such as Adobe and Autodesk, to test and verify compatibility. This ensures ASUS workstations are reliable and highly effective for users in different fields.

SPECIFICATION

CPU	Intel® Xeon® W series Processors 1 x Socket LGA2066
Chipset	Intel® C422 Chipset
Memory	8 (4-channel per CPU, 8 DIMM per CPU) DDR4 2933/2666/2400/2133 MHz RDIMM/LRDIMM *Actual memory frequency differs from Intel CPU and memory module. Please check Intel official site for more detail about the memory supported by each CPU.
Expansion Slots	Total: 5 48-Lane CPU - 2 x PCI Express 3.0 x 16 slot (x16 link) 2 x PCI Express 3.0 x 16 slot (single @ x16 link, dual @ x8/x8 link) 1 x PCI Express 3.0 x 4 slot (x4 link)
GPU support	Supports 2 x double deck PCIe x16 GPU card (Requires 1300W or above)

Storage	Drive Bays :
	3 x Internal 3.5" Drive Bays.
	  * Support only 1 drive when add-on card over 9.5" installed on x16 link slot
	1 x Internal 2.5" Drive Bay
	1 x Internal 5.25" to 3.5"/2.5" Drive Cage (Optional)
	
	SATA Controller :
	Intel® C422 Chipset with RAID 0, 1, 5, 10 and Intel Rapid Storage Technology support
	 - 1 x M.2_2 (Gen 3 x4) socket3, type 22110/2280/2260/2242 storage devices support (PCIe mode)*
	 - 1 x M.2_1 (Gen 3 x4) socket3, type 2280/2260/2242 storage devices support (both SATA & PCIe mode)**
	 - 6 x SATA 6.0 Gb/s Ports
	 - 1 x U.2 connector (supports U.2 NVMe device)*
	   * Bandwidth is shared between M.2_2 and U.2.
	   ** SATA Bandwidth is shared between M.2_1 and SATA 6G_1

LAN	2 x Intel® I210-AT Gigabit LAN Controller
Auxiliary Storage Device Bay	2 x 5.25" media bays (Options: No ODD/DVD-RW)
Management Solution	ASUS Control Center (ACC) Support On-Board ASMB9-iKVM for KVM-over-IP
Front I/O Ports	2 x USB 3.0 2 x USB 2.0 (or optional card reader support) 1 x Headphone port 1 x Microphone port
Switch / LED	Front: - 1 x Power Switch/LED - 1 x Reset Switch - 1 x HDD Access LED
Rear I/O Ports	1 x USB BIOS Flashback Button 2 x USB 3.1 Gen2 ports (Type C & Type A) 4 x USB 3.1 Gen1 ports 4 x USB 2.0 ports (1 Supports USB BIOS Flashback) 1 x Optical S/PDIF Out Port 2 x Intel LAN (RJ45) Ports 8-channel Audio I/O Ports
Power Supply	550W 80PLUS GOLD Single Power Supply, 100-240V, 9-4.5A, 50/60Hz, Class I 750W 80PLUS GOLD Single Power Supply, 100-240V, 9-4.5A, 50/60Hz, Class I 1300W 80PLUS Platinum Single Power Supply, 110-240Vac, 15-7A, 50/60Hz, Class I *550W BRONZE PSU is only available for selected countries.
Form Factor	423mm x 190mm x 435mm 16.7" x 7.48" x 17.1"

Multiple GPU Support, onboard BMC and ACC Management

ESC700 G4 has two PCIe Gen3 x16 slots supporting multi graphic cards. It also has ultra-fast storage and I/O options to choose from, such as onboard 2 x M.2 slots with M.2 heatsinks for optimum cooling and onboard U.2 port. An embedded ASMB9-iKVM module and bundled ASUS Control Center software provide comprehensive in-band and out-of-band management features for small and mid-size businesses.

Recommended application	High End 3D 3D CAD & Rendering Engineering Simulation	Mid Range 3D/ CAD Workstations Digital Content Creator	2D/ Entry Level 3D Professional Designers
CPU	Intel Xeon W-2155 (3.3G, 140W, 10C) or Intel Xeon W-2145 (3.7G, 140W, 8C,)	Intel Xeon W-2135 (3.7G, 140W, 6C) or Intel Xeon W-2133 (3.6G, 140W, 6C)	Intel Xeon W-2125 (4.0G, 120W, 4C) or Intel Xeon W-2123 (3.6G, 120W, 4C)
Memory	32GB x 8 DDR4 RDIMM (ECC)	16GB x 8 DDR4 RDIMM (ECC)	16GB x 4 DDR4 RDIMM (ECC)
GPU	NVIDIA® Quadro® RTX6000 x 2 or NVIDIA® Quadro® P6000/P5000 x 2	NVIDIA® Quadro® RTX4000 or NVIDIA® Quadro® P4000	NVIDIA® Quadro® P2000 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P620
Storage	3.5" 4TB SATA HDD x 2 + M.2 PCIE SSD 1TB x 1	3.5" 2TB SATA HDD x 2 + M.2 PCIE SSD 512GB x 1	3.5" 2TB SATA HDD x 1 + M.2 PCIE SSD 512GB x 1
ISV application	Revit Inventor MAYA VRAY Unity	3DS MAX Adobe PREMIERE PRO VRAY	Adobe Illustrator Adobe Photoshop AutoCAD VRAY