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ASUS ExpertCenter

Pro ET900A X9

ASUS

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Featuring expandable graphics, extensive storage, impressive connectivity and exceptional overall performance and reliability,
ASUS Pro Workstation takes care of all your professional needs

Content Creation
Animation, 3D rendering or media production.

AI / Deep Learning
AI training, deep learning

Data Center
Efficient and cost-effective option for IT Pros and developers.

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Pro ET900A X9 Workstation

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Multi-GPU Support

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Multiple PCIe 5.0 x16 slots

Pro ET900A X9 workstation features seven PCIe 5.0 x16 slots that provide flexible system configurability and expandability. With high-powered graphics cards, it can bring enhanced performance in modelling, simulation, and rendering applications.

PCIe Slot configuration

Pro WS WRX90E-SAGE SE

Slot Description	Speed	Bandwidth
PCIEX16(G5)_1	PCIe 5.0	X16
PCIEX16(G5)_2	PCIe 5.0	X16
PCIEX16(G5)_3	PCIe 5.0	X16
PCIEX16(G5)_4	PCIe 5.0	X16
PCIEX16(G5)_5	PCIe 5.0	X16
PCIEX16(G5)_6	PCIe 5.0	X8
PCIEX16(G5)_7	PCIe 5.0	X16

ECC R-DIMM Memory Support

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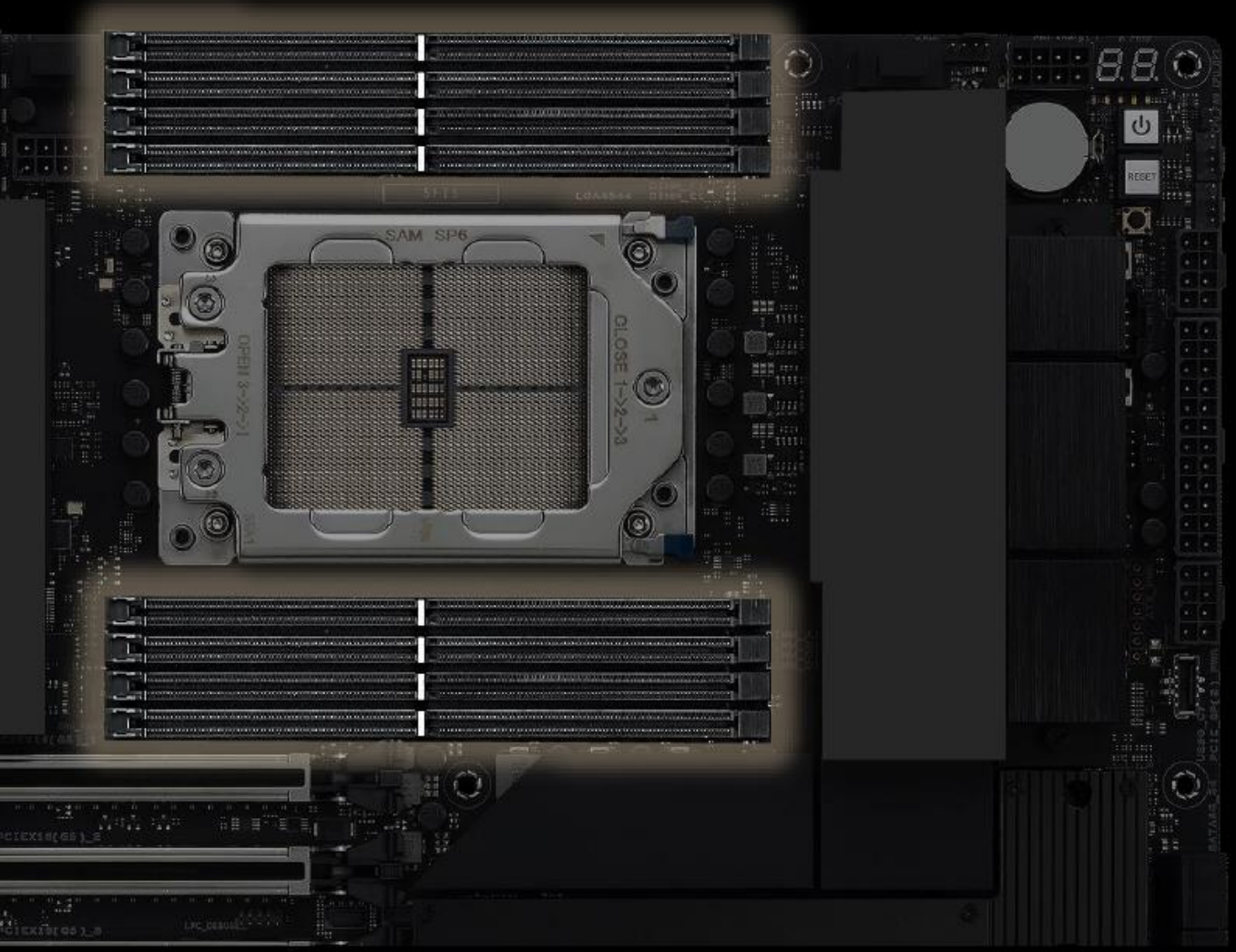

Stability and reliability matter

Pro ET900A X9 supports Error-Correcting Code (ECC) memory, which enables automatic detection and repair of single-bit memory errors, reducing the chance of system crashes and data corruption to ensure a reliable and responsive workstation. You may further boost your memory performance by enabling EXPO settings.

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Pro ET900A X9

Scale up for flexible combination

Updating individual systems with more GPU, Storage and RAM is vital to building a balanced, robust and cost-effective production environment.

CPU	1
PSU	1
GPU	1, 2, 3, 4
SATA HDD	1, 2, 3, 4
M.2 SSD	1, 2, 3, 4
Memory	1, 2, 4, 8

Why ASUS Workstation Barebone System

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Featuring expandable graphics, extensive storage, impressive connectivity and exceptional overall performance and reliability,
ASUS Pro Workstation takes care of all your professional needs

- Perfect Cooling Solution for Great Performance
- Certified Reliability and Durability
- A Number of Available Vendor List(AVL)

Ultrafast Networking and USB4 Connectivity

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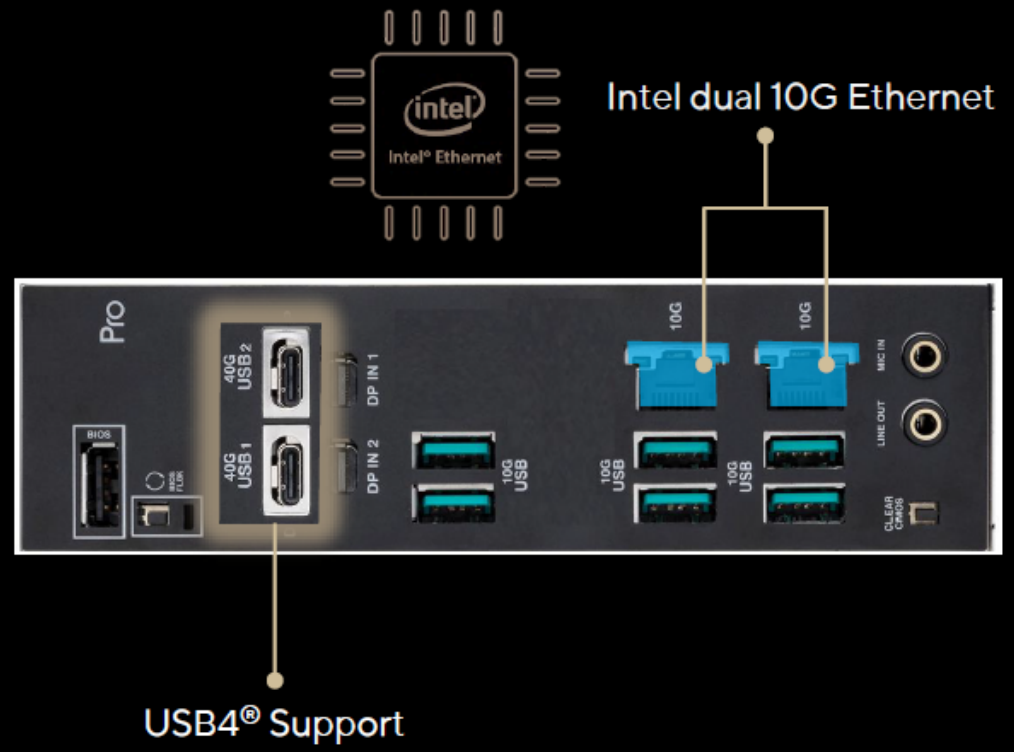
Intel® X710-AT2 dual 10Gb Ethernet

Featuring dual onboard 10G LAN ports powered by the cutting-edge Intel® X710-AT2 Ethernet controller, Pro WS WRX90E-SAGE SE makes short work of multi-terabyte transfers from your creativities and provides server-grade connectivity with low-latency.



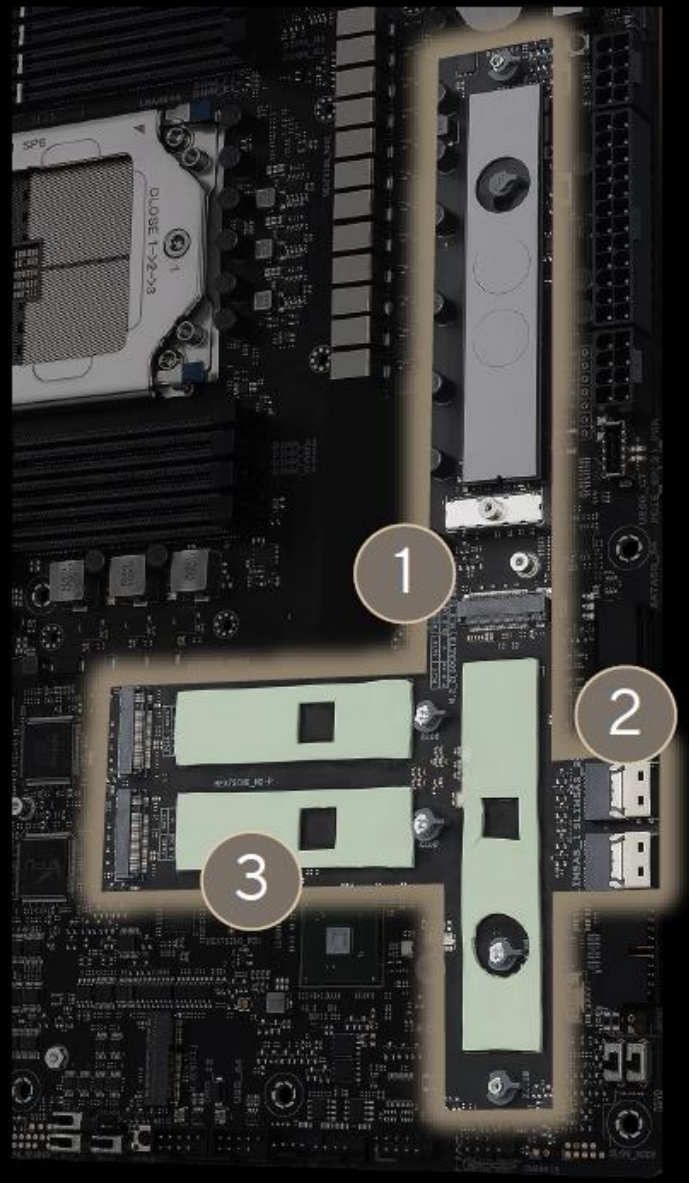
USB4® for data transferring and Graphic output

USB Type-C ports at back panel with DP alt mode supports up to 8K@60Hz resolution, providing great compatibility for Type-C monitor and portable displays which are getting popular among creators.

* The MiniDP In ports at back panel needs to be connected to an add-on graphic card via a bundled MiniDP to DP cable.

- DisplayPort 1.4 graphic output with up to 8K@60Hz resolution
- Data transferring with speeds of up to 40 Gbps
- Multi-link up to 5 devices

• High-Capacity Storage and Thorough Thermal Design



1 M.2 PCIe 5.0 slots

Pro ET900A X9 includes up to four onboard M.2 slots. Users working with massive files can RAID together multiple NVMe devices for massive I/O bandwidth and speedy data read/write.

2 SlimSAS slot

Pro ET900A X9 also features two SlimSAS ports that allows user to connect industrial SSD drives, server and networking equipment.

2 M.2 thermal pads

Beefy heatsinks and thermal pads on each slot keep M.2 slots at the optimal operating temperature for consistent performance and reliability, ensuring peak performance of your next-gen drives.

Model	M.2 Qty.	SlimSAS Qty.
Pro ET900A X9	4 x PCIe 5.0 x4	2 x PCIe 4.0

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Pro ET900A X9
ISV Certification 2024

Hardware solution that has been tested, proven, and certified by Independent Software Vendors (ISVs) to deliver peak performance for your key applications.

Adobe AUTODESK.

ASUS Control Center Express

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Exclusive management software that simplifies IT operation and boosts productivity

Functions provided by ACCE

- Hardware & Software Monitoring
- Software Deployment & Update
- Asset Management
- Mobile Control
- Security

... learn more at ASUS Control Center **Express**

One Page Spec

Pro ET900A X9

Professional performance and stability

Target Market

3D simulations / Content Creation / Data Scientist / Software Development

Extreme Performance

- Supporting AMD RYZEN™ Threadripper™ PRO 7000 WX-Series Processors, with up to 96 processing cores performance.
- Up to 4-way GPU supported with true 4 x PCIE Gen5 x16 link

Flexible Storage options

- 4 x M.2 slots, 2 x SlimSAS slots 4 x SATA ports
- Supporting NVMe and industrial-level drives (optional)
- including USB 40Gpbs, USB 20 Gbps Type-C, and USB 20 Gbps Type-A for versatile connectivity.

Complete IT Infrastructure management

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- Comprehensive and effortless IT management with ASUS Control Center Express (ACCE)

ISV Certification and Partnership

- Autodesk application certified
- Nvidia VR ready
- Adobe partnership

Processor	AMD RYZEN™ Threadripper™ PRO 7000 WX-Series Processors
Core Logic	AMD WRX90 Chipset
Memory	8 x DIMM, DDR5, RDIMM
Expansion Slots	▪ Slot1: PCIe x16 slot (Gen5 x16 link) ▪ Slot2: PCIe x16 slot (Gen5 x16 link) ▪ Slot3: PCIe x16 slot (Gen5 x16 link) ▪ Slot4: PCIe x16 slots (Gen5 x16 link) ▪ Slot5: PCIe x16 slots (Gen5 x16 link) ▪ Slot6: PCIe x16 slots (Gen5 x8 link) ▪ Slot7: PCIe x16 slots (Gen5 x16 link)
RAID Support	▪ AMD RAIDXpert2 Technology supports both PCIe RAID 0/1/5/10 and SATA RAID 0/1/5/10
Drive Bays	▪ 4 x internal 3.5"/2.5" storage bays ▪ 1 x 5.25" media bay

Networking	1 x Intel® dual 10Gb Ethernet
Audio	Realtek ALC1220P 7.1 Surround Sound High Definition Audio CODEC
Regulatory	CE, FCC, BSMI
Dimensions (H x W x D)	532mm x 243mm x 582mm 21.0" x 9.5" x 22.9"
PSU	1650W 80 PlUS PLATINUM single power supply (200-240Vac, 10A, 50-60Hz) 2000W 80 PLUS GOLD single power supply (100-240Vac, 15-12A, 60-50Hz)
OS support	Windows® 11 Pro for Workstation (Pre-load) Ubuntu/RHEL support
Environmental Spec.	Operation temperature: 10℃ ~ 35℃ Non operation temperature: -40℃ ~ 70℃ Non operation humidity: 20% ~ 90% (Non condensing)

Pro ET900A X9 Front View

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1. Audio ports
2. USB 20Gbps Type-C
3. USB 5Gbps
4. USB 2.0
5. HDD Access LED
6. Power LED
7. Power switch
8. Card reader or optical drive (optional)

Pro ET900A X9 Rear View

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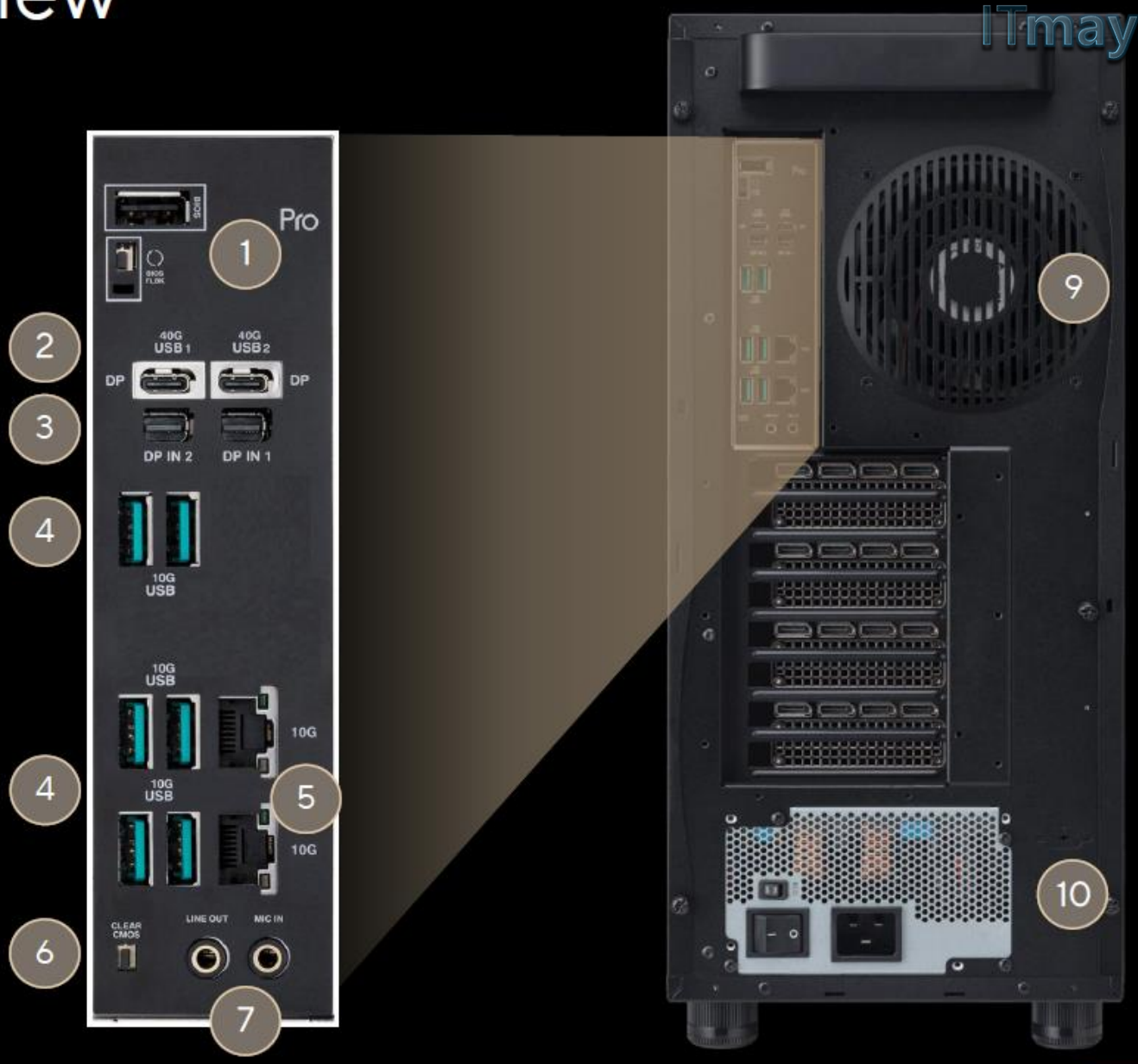
1. BIOS Flashback™ USB port and button
2. USB 40Gbps Type-C
3. Mini DP (input only)
4. USB 10Gbps
5. Dual 10G LAN
6. Clear CMOS button
7. Audio ports
8. Expansion slots
9. 120 x 120 mm system fan
10. Power supply unit



Pro ET900A X9 internal view

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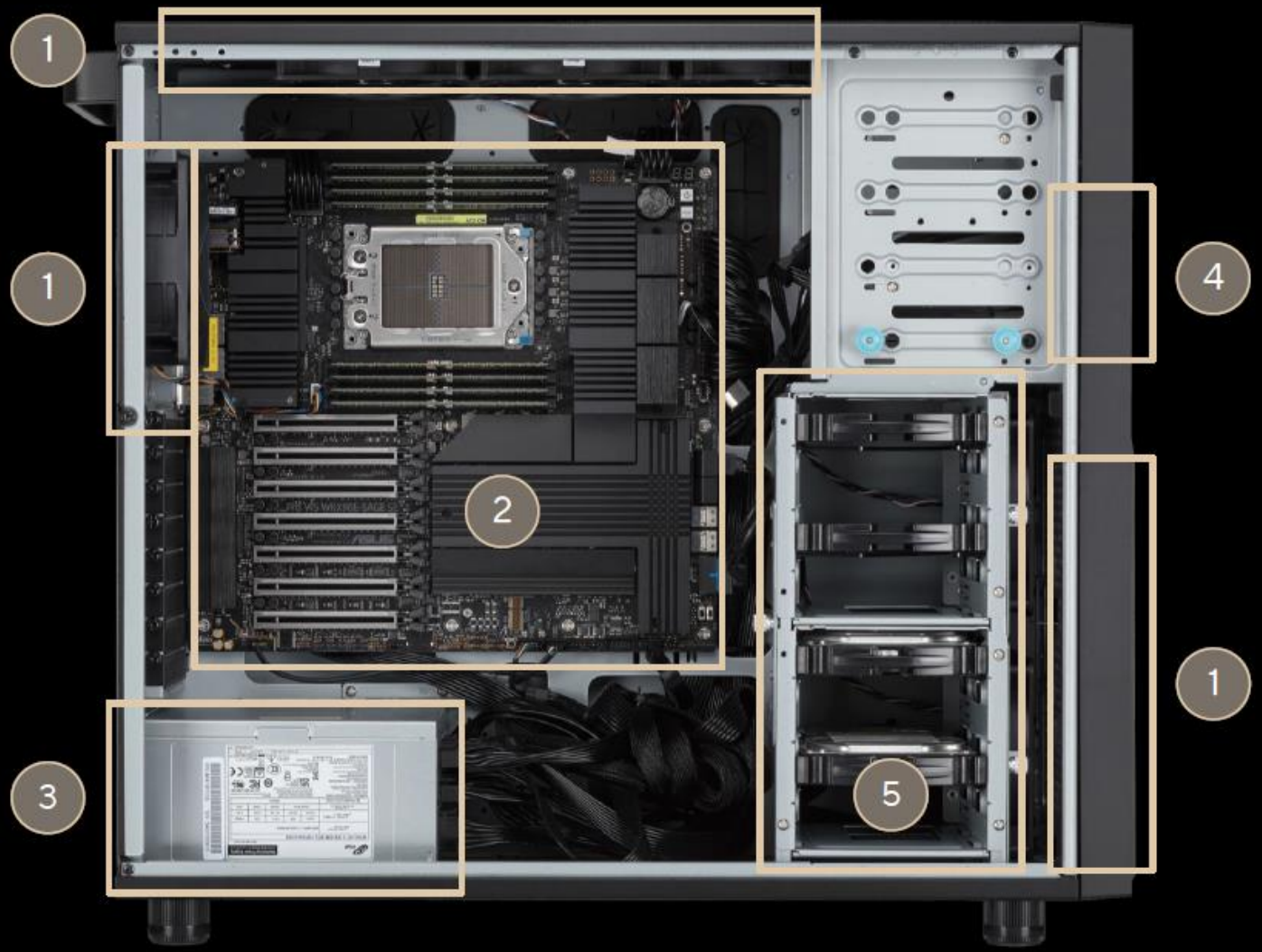

1. System fans
2. Motherboard
3. Power supply unit
4. Card reader or optical drive (optional)
5. 4 x 2.5”/3.5” storage bay

Comparison Table between 2GPU Tower (WRX90) (1/2)

Brand	Pro ET900A X9	DELL New Precision 7875	HP Z6 G5 A	Lenovo ThinkStation P8
Rackmount Server				
Board size / Case Dimensions (WxHxD, mm)	305 x 330 (12" x 13") / 532 x 243 x 582 (21.0" x 9.5" x 22.9")	NA / 442 x 172 x 465	NA / 169 x 465 x 445	NA / 434 x 175 x 508
CPU / Chipset	AMD Ryzen™ Threadripper™ PRO 7000 WX-Series / WRX90	AMD Ryzen™ Threadripper™ PRO 7000 WX-Series / WRX90 or TRX50	AMD Ryzen™ Threadripper™ PRO 7000 WX-Series / WRX90 or TRX50	AMD Ryzen™ Threadripper™ PRO 7000 WX-Series / WRX90
Memory	DDR5, ECC RDIMM	DDR5, ECC RDIMM	DDR5, ECC RDIMM	DDR5, ECC RDIMM
Drive Bays	- 1 x DVD-RW Slim optical drive (optional) - 1 x card reader (optional)	- Boot Drive and Flexbay (M.2 SSD, ODD) - Upper and Lower Flexbay (M.2 SSD, SATA/SAS HDD)	- 1 x 9.5 mm ODD - 1 x SD card reader (optional) - 5.25" optional external bays (CRU carriers – 4 x M.2)	- 3 x Disk Bay - 1 x M.2 bay:
Hot-swap	N/A	N/A	N/A	N/A
Storage	- 4 x internal 3.5"/2.5" storage bays - 4 x PCIe M.2 SSD - 2 x SlimSAS	- Storage (M.2 SSD) - Second Internal M.2 SSD - First and Second Internal SATA	- 4 x 3.5" HDD - 4 x PCIe M.2 SSD	- 3 x 12TB 3.5" HDD (optional) - 4 x PCIe 4TB M.2 SSD (optional) - U.3 2.5" 15mm SSD (optional)
PCIe Expansion slots (GPU)	**Up to 4 Graphics Cards** 4 PCIe 5 x16	Single or Dual Graphics Card	Up to 3 Graphics Cards 4 PCIe 5 x16; 2 PCIe 5 x4; 1 PCIe 4 x16; 3 PCIe 4 x4	N/A Note: Up to 3 x NVIDIA RTX 6000 ADA
Networking	- 2 x 10GbE LAN	- 1 x 10GbE LAN - 1 x GbE LAN	- 1 x 1GbE DASH	- 1 x 10GbE LAN - 1 x GbE LAN

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Comparison Table between 2GPU Tower (WRX90) (2/2)

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Brand	Pro ET900A X9	DELL New Precision 7875	HP Z6 G5 A	Lenovo ThinkStation P8
I/O	**Front Panel** - Power button - **1 x USB 20Gbps Type-C® port** - 2 x USB 5Gbps ports - 1 x USB 2.0 port - 1 x Headphone port - 1 x Microphone port - Media (SD) card reader (optional) - DVD-RW Slim optical drive (optional) **Back Panel** - **2 x USB4® (40Gbps) with ASMedia ASM4242 controller ports (2 x USB Type-C®)** - **6 x USB 10Gbps ports (6 x Type-A)** - 1 x USB 2.0 port (1 x Type-A) - 2 x Mini DisplayPort in - 2 x RJ-45 LAN ports - 2 x Audio jacks - 1 x BIOS FlashBack™ button - 1 x Clear CMOS button	**Front Panel** - Power switch with LED - HDD activity LED - Universal audio port - 2 x USB 5Gbps Type-A - 2 x USB 10Gb Type-C (one with power share) - SD card reader **Back Panel** - 2 x PS/2 ports (optional) - 3 x USB 10Gbps Type-C - 3 x USB 5Gbps Type-A (one with Smart Power On)	**Front Panel** - Power button - Combo audio jack - 2 x USB 5Gbps - 1 x USB 20Gbps Type-C - Media (SD) card reader (optional) **Back Panel** - Flex I/O - 6 x USB 5Gbps ports Type-A - 2 x 10GbE optional ports (via add-in NIC)	**Front Panel** - 2 x USB 10Gbps (optional) - 2 x USB 10Gbps Type-C (optional) **Back Panel** - 3 x USB 10Gbps - 2 x USB 2.0 - 1 x USB 20Gbps Type-C - Upper and Lower PCIe slots
	- COM	- COM		- COM
BMC	NA	NA	NA	AST2600
Audio	2-Jack	1-Jack	1-Jack	3-Jack
Application	- Rendering - VFX Simulation - CAE Simulation - Generative Design - Toolpath Optimization - Reality Capture - Software Development - Hosting multiple VDI instances			

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Thank you