OP-X

The OP-X holds seven RTX PRO 6000 Max-Qs in one tower.

The OP-X runs Threadripper PRO on WRX90 with up to seven water-cooled RTX PRO 6000 Max-Q GPUs in one full tower. It holds the most GPU memory we put in one system, 672 GB, in a tower instead of a server rack.

SPECIFICATIONS

GPUs	Water-cooled GPUs: Up to 7 × NVIDIA RTX PRO 6000 Blackwell Max-Q · Air-cooled GPUs: Up to 4 × NVIDIA RTX PRO 6000 Blackwell Max-Q
GPU maker	PNY, by default
Processor	AMD Threadripper PRO 9955WX, Threadripper PRO 9965WX, Threadripper PRO 9975WX, Threadripper PRO 9985WX or Threadripper PRO 9995WX
Platform	AMD Threadripper PRO (WRX90)
Other processors	Intel Xeon builds use a different board and are on request. Ask through https://optimistpc.com/quote?system=op-x.
Motherboard	ASUS Pro WS WRX90E-SAGE SE
Memory	128 GB to 1 TB of DDR5 ECC registered (8 × 16 GB to 8 × 128 GB); on the board: eight channels, one DIMM slot each (ASUS's specifications)
Storage	Up to four NVMe drives, 500 GB to 8 TB each; on the board: four M.2 (PCIe 5.0 x4); two SlimSAS (PCIe 4.0 x4 NVMe); four SATA at 6 Gbps
Cooling	Water-cooled GPUs or air-cooled GPUs
Dust filters	Front, top, bottom and power supply (the case maker's specifications)
Slots	Seven full-length: six PCIe 5.0 x16 and one PCIe 5.0 x16 at x8 (ASUS's specifications)
Network	Two 10 Gb Ethernet (Intel); one 1 Gb Ethernet for the management chip (Realtek)

Remote management	ASPEED AST2600 chip on its own 1 Gb port; ASUS Control Center Express
USB	Two USB4 at 40 Gbps (USB-C, with display out); six USB-A at 10 Gbps; one USB 2.0
Display inputs	Two Mini DisplayPort in (for USB4 display out); one VGA (the management chip's)
Audio	Mic in, line out
Buttons	BIOS FlashBack, Clear CMOS
Outlet	Water-cooled GPUs: Up to two GPUs run from a standard 15 A outlet, three or four need a 20 A circuit on 100–120 V or any 200–240 V outlet, five need a 200–240 V circuit, and six or seven need a 20 A, 200–240 V circuit. By rated power, not measured; method: https://optimistpc.com/how-we-measure#outlet · Air-cooled GPUs: Up to two GPUs run from a standard 15 A outlet and three or four need a 20 A circuit on 100–120 V or any 200–240 V outlet. By rated power, not measured; method: https://optimistpc.com/how-we-measure#outlet
Power inlet	C20 (16 A), with a C19 cord in the box
Cooling (water-cooled GPUs)	A manifold with two pumps for the processor and every GPU, a 480 mm and a 360 mm radiator, fourteen 120 mm fans and one slim fan
Cooling (air-cooled GPUs)	A manifold with two pumps for the processor, a 480 mm radiator, eleven 120 mm fans and one slim fan

ORDERING

Status	Available to order
Warranty	3-Year Limited Warranty; terms: https://optimistpc.com/terms#warranty
Ships	20 days from order
Ships to	The United States

BY INDUSTRY

The industry pages that recommend this system (optimistpc.com/industries), as each page ranks it. A figure comes from a datasheet and names its source.

Robotics and autonomy	Pick 3 of 3, for a lab sharing one training system, with an RTX PRO 6000 Max-Q
Private AI	Pick 3 of 3, for the biggest open models or several teams at once
Research	Pick 3 of 3, for the lab’s largest models and datasets
Universities and teaching	Pick 3 of 3, for a whole college sharing one system
Drug discovery	Pick 3 of 3, for a team that runs many free-energy windows
Engineering simulation	Pick 3 of 3, for the biggest meshes and models
Life sciences	Pick 3 of 3, for a core facility serving several labs

How we measure: optimistpc.com/how-we-measure