OP-S

The OP-S holds one GPU in 9.9 liters, and every one is built the same.

The OP-S puts one GPU, up to a 96 GB RTX PRO 6000, in a 9.9-liter, air-cooled chassis, and every one is built the same.

SPECIFICATIONS

GPU	1 × NVIDIA RTX PRO 6000 Blackwell Workstation Edition (or RTX PRO 5000, 4500, 4000); or 1 × NVIDIA GeForce RTX 5090, 5080 (Founders Edition only); 5070 (Founders Edition or PNY, whichever is in stock)
GPU maker	PNY or NVIDIA Founders Edition, by default
Processor	AMD Ryzen 5 9600X, Ryzen 7 9700X, Ryzen 7 9800X3D, Ryzen 9 9900X or Ryzen 9 9900X3D; or Intel Core Ultra 5 250K Plus, Core Ultra 7 270K Plus or Core Ultra 7 265
Platform	AMD Ryzen (AM5) or Intel Core Ultra (LGA1851)
Motherboard	ASUS TUF GAMING B850I WIFI NEO (Ryzen); ASUS ROG STRIX B860-I GAMING WIFI (Core Ultra)
Memory	16 GB to 128 GB of DDR5 (2 × 8 GB to 2 × 64 GB); on the board: two channels, two DDR5 DIMM slots, up to 128 GB (ASUS's specifications)
Storage	Up to two NVMe drives, 500 GB to 8 TB each; on the board: two M.2 (one PCIe 5.0 x4, one PCIe 4.0 x4)
Cooling	Air-cooled
Slots	One PCIe 5.0 x16 (ASUS's specifications)
Network	2.5 Gb Ethernet (Realtek on the Ryzen board, Intel on the Core Ultra board)
Wireless	Ryzen board: Wi-Fi 6E, 2×2, on 2.4, 5 and 6 GHz, and Bluetooth. Core Ultra board: Wi-Fi 7, 2×2, on 2.4, 5 and 6 GHz, and Bluetooth 5.4
USB	Ryzen board: one USB-C at 20 Gbps; three USB-A at 5 to 10 Gbps; two USB 2.0. Core Ultra board: one Thunderbolt 4 (USB-C) and one USB-C at 20 Gbps; four USB-A at 5 to 10 Gbps; two USB 2.0

Outlet	A standard 15 A outlet. By rated power, not measured; method: https://optimistpc.com/how-we-measure#outlet
Fans	Two Noctua NF-A12x25 G2 chromax.black, 120 mm

ORDERING

Status	Available to order
Warranty	3-Year Limited Warranty; terms: https://optimistpc.com/terms#warranty
Ships	6 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.

Training simulation	Pick 1 of 3, for a fleet of training rigs, one in each, with an RTX 5090. Screens it drives: Up to four: its RTX 5090 has four outputs (from NVIDIA’s datasheets)
Flight simulation	Pick 1 of 3, for one channel per computer, with an RTX 5090
Racing simulation	Pick 1 of 2, for a venue’s rigs, one beside each, with an RTX 5090
Live visuals	Pick 1 of 2, for a show that travels, or one node in a gallery or booth, with an RTX 5090
Robotics and autonomy	Pick 1 of 3, for one engineer training at a desk, with an RTX 5090
Private AI	Pick 1 of 3, for one team’s model in its own office
AI development	Pick 1 of 3, for one engineer’s fine-tunes at the desk, with an RTX 5090
Research	Pick 1 of 3, for one researcher at the desk, with an RTX 5090
Universities and teaching	Pick 1 of 3, for a teaching lab, one at every desk, with an RTX 5070
Field research	Pick 1 of 2, for the bench of a trailer or a research vessel’s dry lab, with an RTX 5080
Drug discovery	Pick 1 of 3, for one simulation or docking run at the desk, with an RTX 5080

Engineering simulation	Pick 1 of 3, for one engineer at the desk, with an RTX PRO 6000
Life sciences	Pick 1 of 3, for one researcher at the desk, with an RTX PRO 6000
Mapping and reality capture	Pick 1 of 2, for splats, and projects up to 30,000 images (from Esri’s memory table), with an RTX 5090
Rendering and VFX	Pick 1 of 2, for one artist at the desk, with an RTX 5090. Largest scene in GPU memory: 32 GB with an RTX 5090, 48 GB with an RTX PRO 5000, 96 GB with an RTX PRO 6000 (from NVIDIA’s datasheets)
Office workstations	Pick 1 of 2, for every desk, with an RTX 5070
Video and post-production	Pick 1 of 2, for editing and grading at the desk, with an RTX 5090

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