

Workstation on Another Level

AMD Ryzen™ Threadripper™ PRO Processors

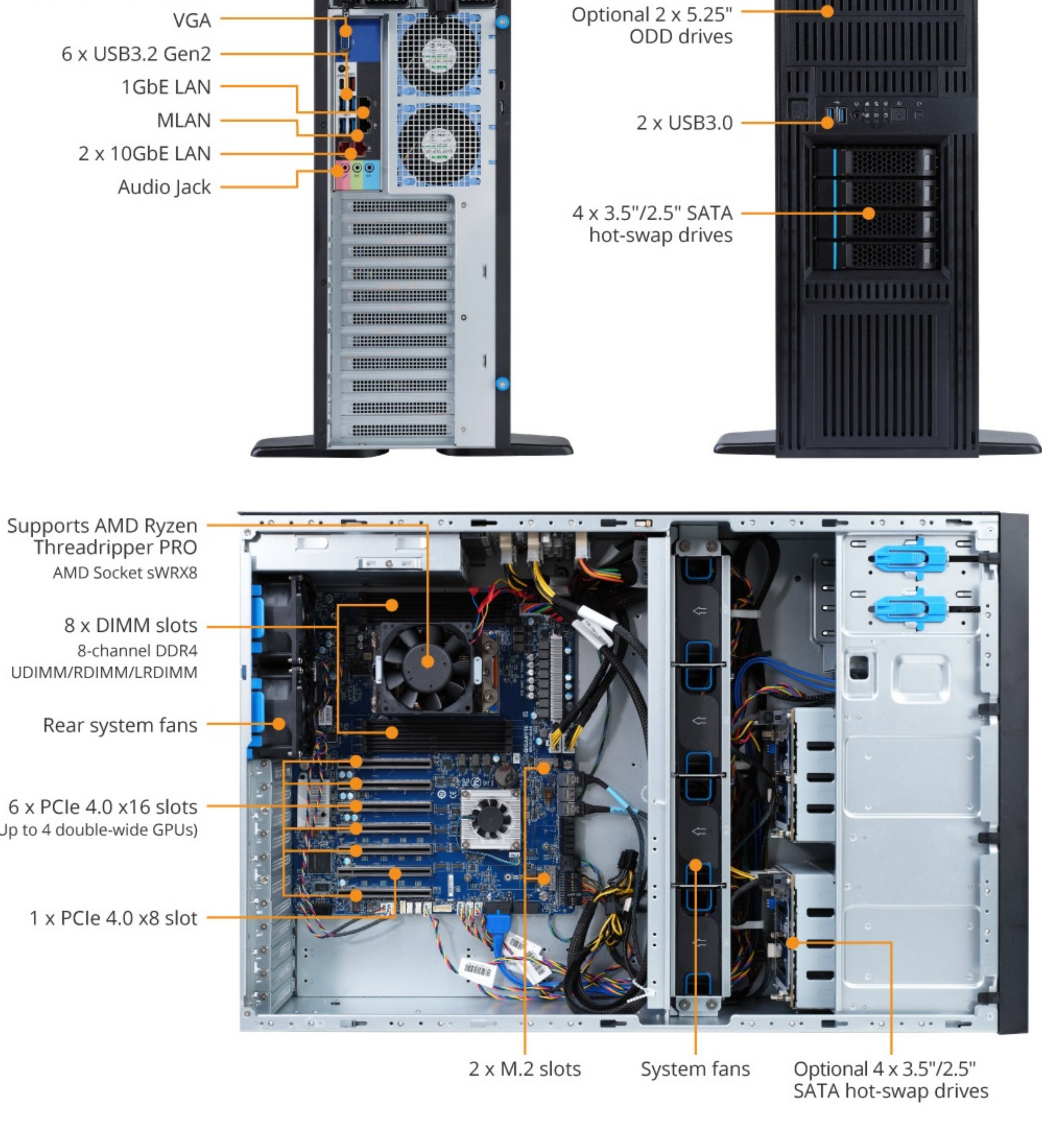
For the professional workstation users that rely on workloads for visual effects design or rendering, there is the AMD Ryzen™ Threadripper™ PRO. Engineering, data science, and oil & gas exploration are among the fields that need the highest possible CPU platform to handle the large amounts of data in an efficient manner.

- Leading single and multi-threaded performance
- Top performance throughput with PCIe 4.0
- AMD Secure Processor: hardware root-of-trust
- Support for administrative and remote management

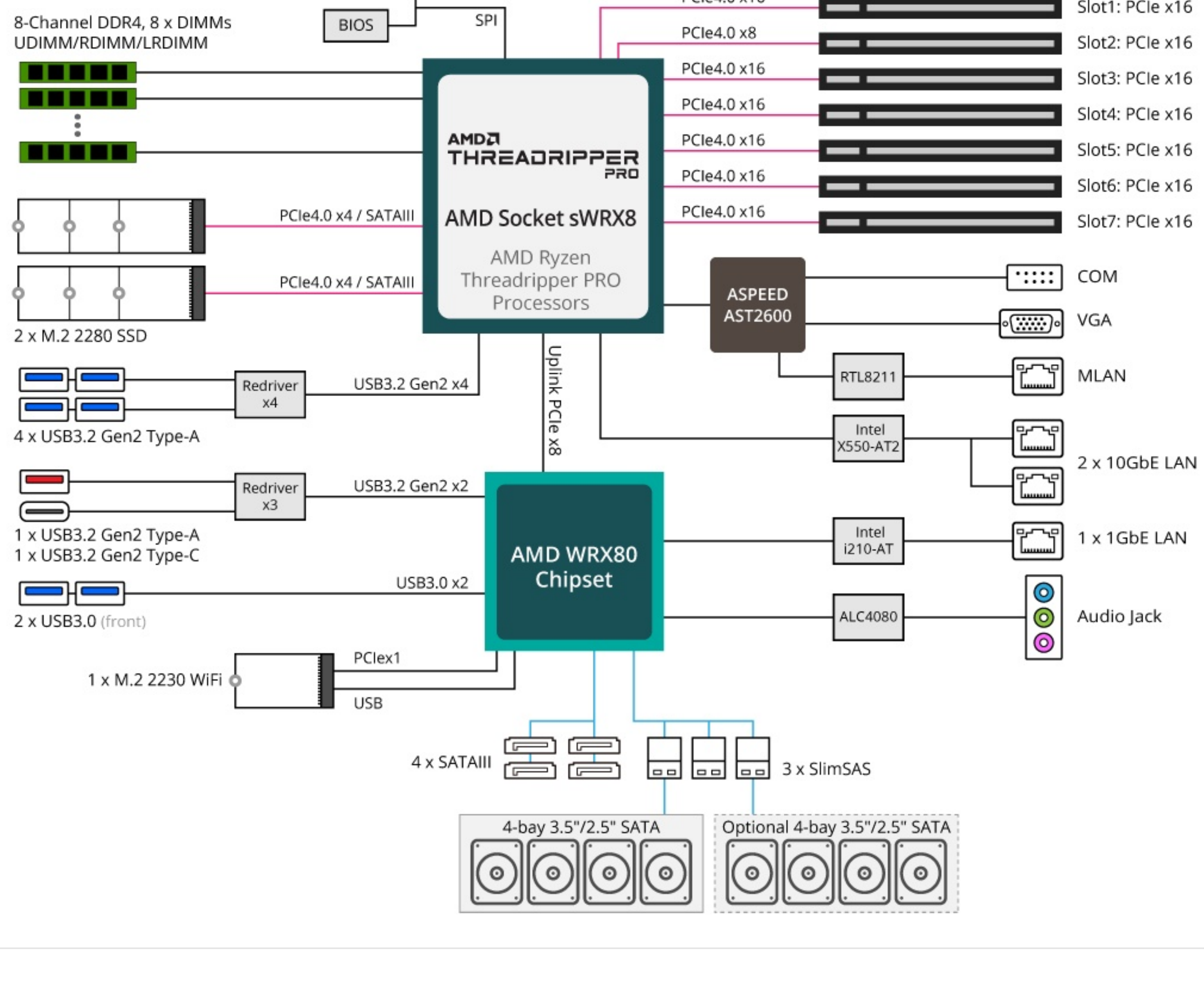


Up to 64 cores	Up to 128 PCIe 4.0 lanes	8-channel DDR4 3200MHz	Up to 2TB of system memory	Multi-GPU support	Up to 12 USB 3.2 Gen2 ports	NVMe & SATA RAID support
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W771-Z00 Product Overview



W771-Z00 System Block Diagram



Multiple Memory Type and High Capacity

8 x DIMM slots for 8-channel DDR4-3200 memory

AMD Ryzen™ Threadripper™ PRO platform has support for multiple memory types: UDIMM(ECC) / RDIMM / LRDIMM, while supporting up to 2TB of total system memory. It can offer a flexible options for workstations.

High Performance

PCIe 4.0 Ready Design

W771-Z00 is equipped with several new components to ensure the best PCIe 4.0 signal quality, including components: PCB, PCIe slots, and M.2 connectors. M.2 interface does not compromise performance and PCIe 4.0 is supported.

Supports 4 x Double Wide Accelerators

GIGABYTE servers have been tested and validated across a range of workloads with various computing accelerators designed to deliver high levels of performance for 3D rendering, deep learning and high performance computing, which enables content creators, data scientists, researchers, and engineers to tackle challenges that were once impossible.



Storage Support

Mix Drives

Plentiful NVMe and SATA Storage options that can fulfill your hot and cold data processing requirements.

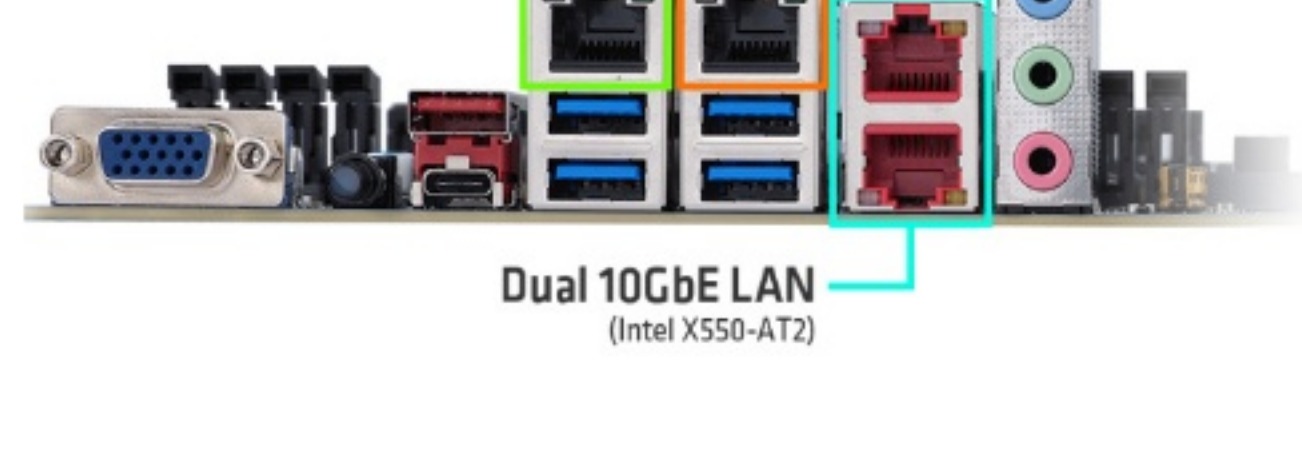
- Onboard 2 x M.2 2280 SSD slots (PCIe 4.0 x4 / SATAIII)
- 4 x 3.5" / 2.5" SATA hot-swap HDD/SSD bays
- Optional 4 x 3.5" / 2.5" SATA hot-swap HDD/SSD bays

Connectivity

Dual Intel® 10GbE and 1GbE connections

The Intel® X550-AT2 adapter provides 2 ports of 10 GbE network connectivity as well as SR-IOV features. It is perfectly designed for demanding high bandwidth applications in virtualization, media centers, content creation, and data centers.

The Intel® Ethernet Controller i210-AT supports Windows Server OS with adapter fault tolerance, link aggregation, adaptive load balancing and more.



Hardware Security

Optional TPM 2.0 Module

For hardware-based authentication, the passwords, encryption keys, and digital certificates are stored in a TPM module to prevent unwanted users from gaining access to your data. GIGABYTE TPM modules come in either a Serial Peripheral Interface or Low Pin Count bus.

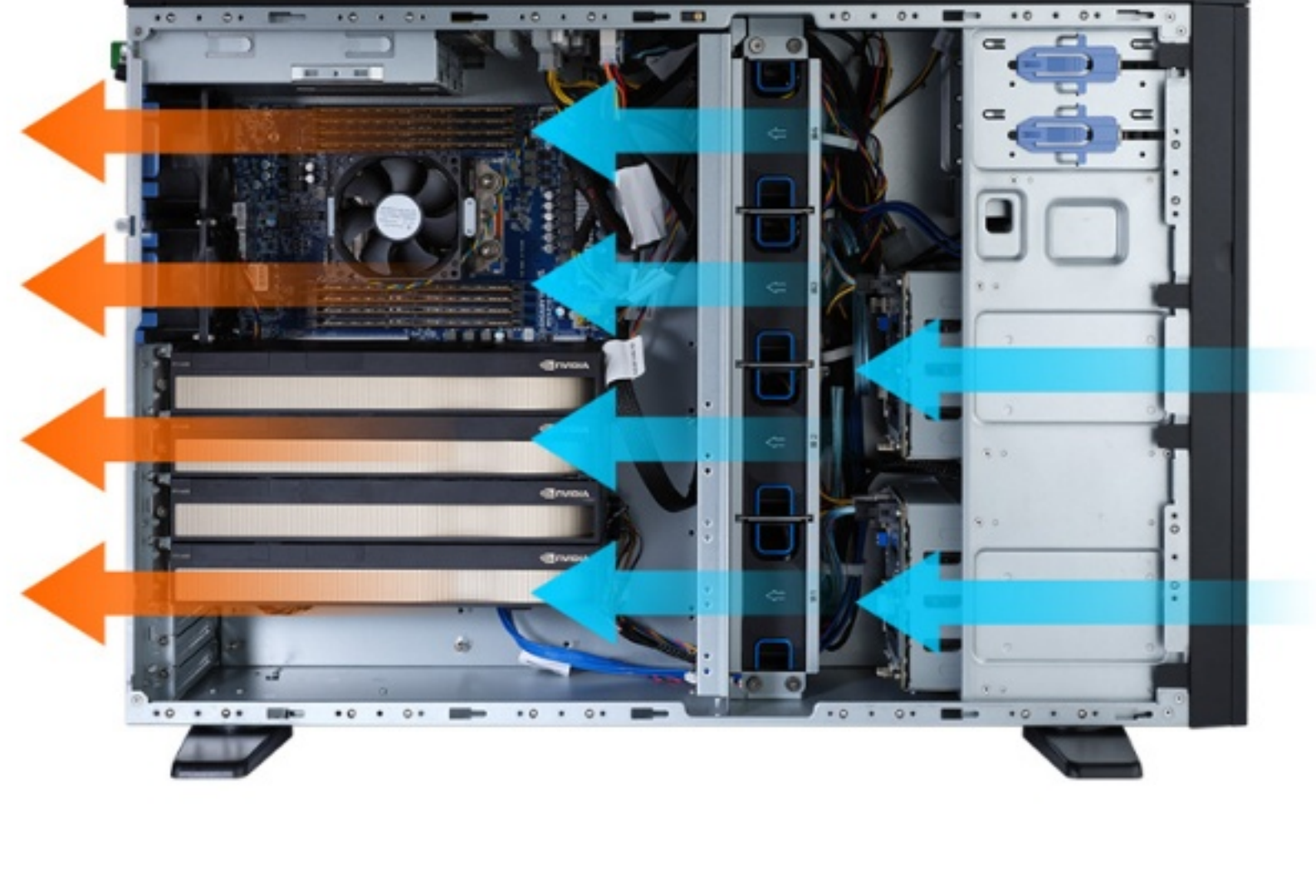
Power Efficiency

Automatic Fan Speed Control

GIGABYTE servers are enabled with Automatic Fan Speed Control to achieve the best cooling and power efficiency. Individual fan speeds will be automatically adjusted according to temperature sensors strategically placed in the servers.

Airflow-friendly Design

4x 8038 middle system fans to pull in cool air from the front side of the case and push it across the system components. Optional external fans can enhance air flow and can quickly remove the hot air from the case to prevent GPU throttling.



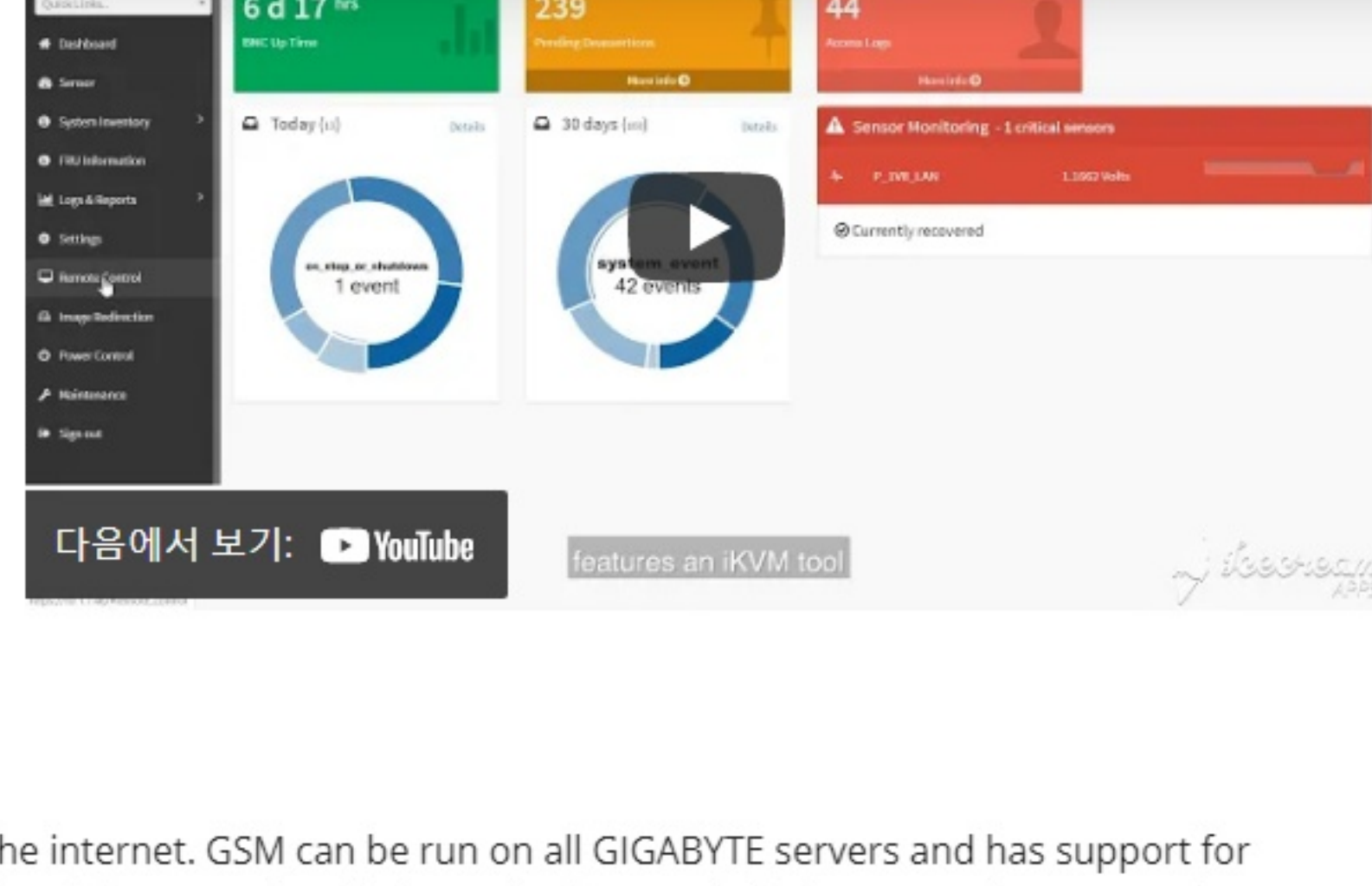
Value-added Management

GIGABYTE offers free-of-charge management applications via a specialized small processor built on the server.

GIGABYTE Management Console

For management and maintenance of a server or a small cluster, users can use the GIGABYTE Management Console, which is pre-installed on each server. Once the servers are running, IT staff can perform real-time health monitoring and management on each server through the browser-based graphical user interface. In addition, the GIGABYTE Management Console also provides:

- Support for standard IPMI specifications that allows users to integrate services into a single platform through an open interface
- Automatic event recording, which can record system health within 30 seconds before an event occurs, making it easier to determine subsequent actions
- Integrate SAS/SATA/NVMe devices and RAID controller firmware into GIGABYTE Management Console to monitor and control Broadcom® MegaRAID adapters.



GIGABYTE Server Management (GSM)

GSM is a software suite that can manage clusters of servers simultaneously over the internet. GSM can be run on all GIGABYTE servers and has support for Windows and Linux. GSM can be downloaded from GIGABYTE website and complies with IPMI and Redfish standards. GSM includes a complete range of system management functions that includes the following utilities:

- GSM Server: A software program that provides real-time, remote control using a graphical user interface through an administrator's computer or through a server in the cluster. The software allows ease of maintenance for large clusters of servers.
- GSM CLI: A command-line interface for monitoring and managing remotely.
- GSM Agent: A software program installed on each GIGABYTE server node that retrieves information from each system and devices through the OS, and this software integrates with GSM Server or GSM CLI.
- GSM Mobile: A mobile app for both Android and iOS that provides admins with real-time system information.
- GSM Plugin: An application program interface that allows users to use VMware vCenter for real-time monitoring and management of server clusters.

