



Appro Ready-To-Go Cluster Series



High Performance Computing (HPC) is a key differentiator when it comes to more effectively and efficiently developing products. Appro provides pre-configured HPC cluster solutions that are certified Intel® Cluster Ready and optimized to run ANSYS applications. With this solution, your business can take advantage of the power of HPC faster, easier, and more cost-effectively.

Appro HPC Solution Highlights

Clusters are the ideal solution for individuals or workgroups who need higher throughput and the ability to run large, detailed simulations that cannot be accomplished on workstations. The Appro Ready-To-Go Clusters are pre-tested and integrated to include support and services. As computational needs grow, you can easily scale up using the same cluster building block solution.

Appro Ready-to-Go Clusters are Intel® Cluster Ready certified. The Intel Cluster Ready Program makes clusters simpler to buy, deploy and manage. The Appro Ready-to-Go Clusters are pre-tested with the Intel Cluster Checker software to help ensure application and component interoperability—from the minute you first power up the cluster through the lifetime of the system.

Appro Ready-to-Go Clusters are powered by the new Intel® Xeon® processor 5600 series. Allowing you to unleash today's leading parallel processing performance and analyze complex models faster—in a smaller, denser, and more energy-efficient footprint. The net impact: Faster time to value, lower total cost of ownership (TCO), and greater business impact.

Appro Ready-To-Go Clusters, based on the Appro GreenBlade™ System, accelerate small to mid-sized ANSYS HPC Deployments

Solution Benefits

- **Simplification**—Appro's GreenBlade System is an Intel Cluster Ready certified platform that helps bridge the gap between the application layer and the cluster solution infrastructure.
- **Confidence**—Ready-To-Go Clusters are integrated and tested, providing you with the confidence that the cluster platform and software will work optimally together.
- **Productivity**—Intel® Cluster Checker software enables rapid deployment and simplified maintenance of the cluster, allowing you to easily ensure the system is operating as expected and letting you focus on engineering simulation.
- **Quality**—Appro verifies that each Intel Cluster Ready solution functions at expected levels and provides the standard interface that enables you to run registered applications.
- **Ready to Grow**—When you need to expand your HPC infrastructure or deploy a cluster for another design group, you can use the Ready-To-Go recipe to create an exact copy of your cluster. Because the system is Intel Cluster Ready, you can be confident that hardware and software will work together as they should.

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Reference Design and Configuration Options

Rack Cabinet	24U - 1/2 size Rack
Configurations	Supports up to 2 GreenBlade Systems Scales from 4 to 16 compute nodes/48 to 192 cores Based on Intel Xeon processor 5600 series Rack integrated with 1 head node One InfiniBand and one Ethernet switch
Memory	Up to 768TB of DDR3 ECC total for compute nodes Up to 96GB of DDR3 ECC memory for head node
Storage	4x 2.5" SATA or SAS Up to 500GB of local storage per compute nodes and Up to 2TB of storage of head node
IPC Interconnect	1x 24p DDR IB Switch 1x 24p Ethernet switch for management/operational network
External I/O Interfaces	Gigabit, 10 Gigabit, or DDR Infiniband
Power/Cooling	2kW to 6.6kW, depending on configurations
Software and OS	Linux OS, Intel Cluster Ready Roll Installed, Cluster Management Software
Support	2-year limited warranty
Services	Includes 1 day of on-site installation and training
Availability	US only



Recommended Entry-Level Solution for ANSYS

Configuration Options

Option 1	Cluster Configuration – 4 nodes
Option 2	Cluster Configuration – 8 nodes
Option 3	Cluster Configuration – 16 nodes

Larger configurations are also available, ask our sales representative for more information



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