

1U **Appro 1424X**



The Appro 1424X server based on Intel® Xeon® Processor 5600 Series is a unique solution that groups together two compact motherboards in one chassis providing a high density 1U server. Each motherboard has room for two processors, supports up to 24GB of memory, has a PCIe x16 expansion slot and up to two hot-swappable SATA HDDs. The 1424X is a perfect performance-optimized server foundation to build a large cluster within limited datacenter floor space. Now HPC users can have more processing performance scalability with a massively multi-threaded server architecture. This system brings advancements in memory, power, I/O, and security optimizing the platform for the demands of multi-core processing.

Features and Benefits

- Up to four Dual/Quad/Six-Core Intel® Xeon® Processor 5600 Series
- Supports Intel 5520 chipset I/O hub
- Supports up to 48GB in 12 DIMM Sockets of DDR3 memory
- Up to four 2.0TB SATA hot-swap HDD's
- One LP PCIe Gen2 x16 riser slot
- Supports a variety of configuration options
- Cluster management: Rocks+ and MOAB Cluster Suite (optional)
- Support and Service options
- Offers a flexible, reliable and scalable compute platform
- Easy to maintain and service - hot-swappable power supplies and fans
- Energy-efficient - 980W single, fixed, high-efficiency power supply and 6 cooling fans

Ideal Environment

The Appro 1424X server is well suited for high performance computing users who need to maximize processor density in a cabinet without sacrificing space and features. This server is perfect for I/O and transactional processing type of applications in the Oil and Gas, Financial, Government/Defense and many other markets.



Appro 1424X - 1U/DP Server	
Motherboard	Two system boards in one chassis
Processors (per node)	Up to two Intel® Xeon® processor 5600 series
Chipset	Intel® 5520 Chipset I/O Hub
System Bus	Intel® QuickPath Interconnect (QPI) up to 6.4 GT/s
Memory Type	Support for 800/1066/1333 MT/s ECC RDIMM DDR3 Memory
Memory Capacity (per node)	Up to 48GB in 12 DIMMs across six memory channels (three channels per processor)
Disk Controller (per node)	Intel® I/O Controller Hub (ICH10R)
Drive Bays (per node)	Two 3.5" SATA hot-swap HDD bays
Storage Capacity (per node)	2.0TB SATA
Graphics (per node)	Matrox G200eW graphics controller
Network Interface (per node)	Dual Gigabit LANs with Intel® 82576 Ethernet controllers Optional: Single Port Mellanox Connect-X InfiniBand (DDR or QDR) with QSFP Connector
Input/Output (per node)	One serial port, video port, two USB 2.0 ports, two GbE LAN ports Optional: Single Port InfiniBand (DDR or QDR) with QSFP Connector
Expansion Slots (per node)	One x16 PCI Express Gen 2 PCI riser slot capable of supporting a low-profile add-in card
Cooling (per node)	3 counter-rotating fans with Optimal Fan Speed Control
Power Supply	110-220VAC, auto-sensing, High-Efficiency 1200W single, cold-swap PS
AC Amperage	8A at 180VAC; 5A at 240VAC
Weight	Installed: 40lbs (18.1kg)
Dimensions (HxWxD)	1.7" x 17.2" x 27.75" (43 x 437 x 705 mm)
Temperature	Operating: 10°C ~ 35°C Storage: -40°C ~ 70°C
Server Management	IPMI 2.0 compliant, Integrated Baseboard Management Controller (Integrated BMC)

Support: Two years standard warranty. On-site maintenance and installation service options are available.
Rapid Exchange Service Options: Two years warranty (next day parts replacement exchange).



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