



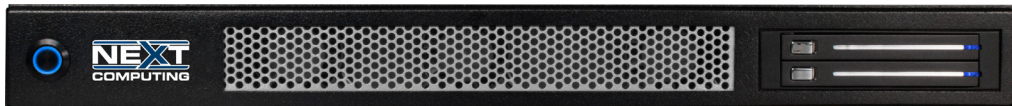
NUCLEUS 1U

The Nucleus 1U is a sleek, compact, high-performance system designed by NextComputing for appliance, workstation, or server use in a variety of environments.

At 16" deep and 1U depth, the Nucleus 1U still packs the power of enterprise-class performance and full-size PCI Express expansion.

The Nucleus 1U opens up a realm of possibilities with its compact form factor and multitude of expansion options:

- Use as a video switcher or encoder in environments where you need the power, but don't have the space
- Integrate a high-speed PCIe network card for use as a compact server
- Run high-quality graphics for digital signage, regardless of space constraints
- Utilize a powerful GPU for processing of computation-heavy tasks that don't necessarily involve graphics
- Use it as a small, powerful workstation, either directly at the desk, or remotely from a centrally managed location



Front view



Rear view

**Compact form factor:
1U height, 16" depth**

**Usable as a desktop or
rackmount workstation**

**Small size allows for
easy relocation**

**Support for full-size PCI
Express cards**

**2 hot-swappable hard
drives and additional
internal storage**

Available CPUs	<ul style="list-style-type: none"> • Single Intel Core, Intel Xeon, or AMD Ryzen 7 processor • Single or dual Intel Xeon processors
Memory	Up to 16GB DDR3 1600MHz or 32GB DDR4 2133MHz RAM
PCI Expansion	<ul style="list-style-type: none"> • (1) PCI Express 3.0 x16 slot for full-length, full-height card -or- • (2) PCI Express 3.0 x16 slots for full-length, full-height cards with select motherboard and Intel Core processor (see your Sales Engineer for details)
Storage	<ul style="list-style-type: none"> • Up to (2) front-access removable SATA or Solid State hard drives • Up to (2) fixed 9.5mm SATA or Solid State Drives -or- (1) fixed 15mm SATA hard drive
Available Drive Capacities / Features	<ul style="list-style-type: none"> • SATA up to 2TB each • SAS up to 2TB each (or 10K RPM up to 1.8TB) • Solid State Drives up to 4TB each • Encryption options available
RAID	Onboard RAID 0/1/5/10, or via add-on PCIe RAID controller
Operating Systems	32-bit or 64-bit Microsoft Windows 10, Windows 8.1, or Windows 7
Power	350 Watt 80 PLUS® Gold certified power supply
Physical	16.75" (425.45mm) W—not including side rails x 1.75" (44.45mm) H x 16"(406.4mm) D
Warranty	1 year parts and labor; 2nd and 3rd year warranties available

Built-to-order options (please inquire about minimum quantities)

Customization for other motherboard selections, including mini-ITX, micro-ATX, and ATX form factors and corresponding processing, memory, and storage options
Custom rear I/O faceplate to match specialized configurations and adapters
Additional storage configuration options based on your needs
Branding with your logo and custom faceplates