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

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

Multiple configuration options

Available CPUs	• Single Intel Core, Intel Xeon, or AMD Ryzen processor • Single or dual Intel Xeon processors
Memory	Up to 16GB DDR3 1600MHz or 32GB DDR4 2133MHz RAM
PCI Expansion	• (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	• 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	• 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	Microsoft Windows 10
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

Rear IO configuration options

OPTION I - FOR 15"-17" DEEP CABINET RAILS

BRACKET IN SHORTENED POSITION
GOOD FOR 15"-17" CABINET DEPTHS

#6-32 X 1/4" LG FLAT-HD SCREWS, 4X

OPTION II - FOR 18"-22" DEEP CABINET RAILS

BRACKET IN EXTENDED POSITION
GOOD FOR 18"-22" CABINET DEPTHS

#6-32 X 1/4" LG FLAT-HD SCREWS, 4X

BRACKET, RACK-MNT, FRONT
FIXED, COMES INSTALLED ON CHASSIS

BRACKET SLIDES FOR
ADJUSTMENT

BRACKET SHOWN IN EXTENDED POSITION,
ALLOWS FOR 18"-22" CABINET DEPTH

.000
FRONT
CABINET
RAIL

18.00   19.00   20.00   21.00   22.00

REAR CABINET RAIL DEPTH,
EXTENDED POSITION

SLIDES FOR
ADJUSTMENT

(2) #6-32 X 3/8" LG PAN-HD SEMS SCREWS

REAR VIEW
SAME ON BOTH SIDES

NEXT
COMPUTING

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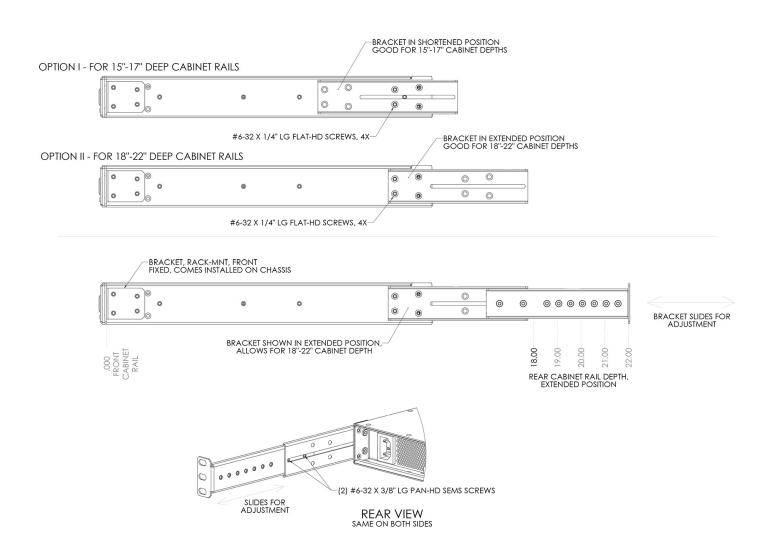**www.NextComputing.com   •   sales@Nextcomputing.com**