NUCLEUS 2P

The Nucleus 2P is a short-depth rack appliance offering high-performance computing in a unique form factor. The 3U height and short, 12" rack depth make it an ideal fit for small, 2-post racks or for ease-of-use wherever you need it to be.

The Nucleus 2P is the perfect solution for network tasks that require high-throughput I/O, PCI Express expandability, redundant power, or maximum performance in minimum space.

The flexibility and data-crunching power of the Nucleus 2P make it an essential part of the toolset for monitoring and optimizing your network.

Front view

High-density, high-performance telco system

2-Post rackmount with compact 3U height, short 12" rack depth

Powerful AMD and Intel processor and memory configurations

Flexible PCI Express card I-O configurations for edge computing

Supports GPU co-processing with NVIDIA Quadro cards

1+1 AC or 48VDC power options

	Standard	High-Performance
Available CPUs	• Single Intel Xeon 2nd and 3rd generation Platinum 18-core CPU • AMD EPYC™ Rome or Milan Processor (16-32 cores)	• Dual Intel Xeon 2nd and 3rd generation Platinum 22-core CPU • AMD EPYC™ Rome or Milan Processor (48-64 cores)
Memory	256GB to 512GB DDR4 2666MHz/3200MHz ECC RAM	512GB to 1TB DDR4 2666MHz/3200 MHz ECC RAM
PCI Expansion	• Intel-based configurations: (6 or 7) PCI Express 3.0 and 4.0 slots • AMD-based configurations: (7) PCI Express 3.0 and 4.0 slots *Note:* • PCI Express cards to ¾ length cards or 9" length. • Full height cards slot availability dependent on NVME storage options installed • If both NVME removable drives installed full height boards in slots 2,3 and 7 only • No configuration restriction with half height cards	
Storage	• Up to (2) 2.5" SSDs with capacities up to 8TB SATA each or (1) NVMe SSD up to 30.72TB (PCIe 3.0/4.0 options) • Up to (2) optional M.2 SSDs with capacities up to 4TB (PCIe 3.0/4.0 options)	
Operating Systems	• Red Hat and Cent OS Enterprise Linux • VMWare vSphere • Windows Server, Windows 10	
Power Options	• 700W - 48V DC input 1+1 redundant power supply hot swap modules • 750W - 1+1 AC 110/220V 50/60Hz auto switching PSU	
Physical	• Width: 16.96" (430.78mm) (not including side rails) x Height: 5.25" (133.35mm) x Depth: 12" (304.80mm) • Optional reverse rack mounting. Also supports 19" rack and Telco/2 post rackmount	

5.25"

12"

16.96"