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NextServer-X 2U Ampere

Deployable and operational TSA carry-on fly away kit for edge computing network sensors and servers

- Supports the entire Ampere processor family

- Removable mid-plane based drive bays for up to (8) NVME 2.5" drives, up to 61.44TB per SSD

- Includes Secure Boot UEFI compliant BIOS, Intel Boot Guard, TPM2.0 trusted Platform

- IPMI, HTML5 and API based out of band management with MAC addresses identification, one time boot on next reboot option, PXE boot option, Redfish compatible Out of Band (OBB) management connection

- Certified for CentOS, Red Hat Enterprise Linux

- (4) PCI Express 4.0 x16 slots for ½ height PCI Express cards to ¾ length or 9" length

- Systems are stackable, cooling front to back

- Includes service and maintenance documents for easy field access, service, and installation of PCIe cards

- Compliant with the NextComputing Supply Chain Risk Management Process

Smallest form factor, highest performance: as a desktop or versatile short depth rack mount

Easy rugged transport: Operate the system from within the rugged travel case for quick setup anywhere

Modular and purpose-built: For your high performance computing use case

High-performance server: Ideal for cyber analytics, data analytics, network forensics and data recording

Application Support: We work directly with our customers every day to ensure that our computers meet their unique requirements

NextServer-X 2U Ampere

Available CPUs	Single socket Ampere® Altra® Processor from 32 to 128 Cores up to 250W TDP
Memory	3200 MHz ECC RAM to 2TB
PCI Expansion	(4) full-length PCIe 4.0 x16 slots
Storage	• Removable mid-plane based drive bays for up to (8) NVME 2.5" drives capacities up to 61.44TB per high endurance data processing and recording SSD (480TB) as JBOD or RAID 0/1/5/6 configurations • Optional single or dual (4) port NVME HBA cards to support up to (8) removable U.2 NVMe SSDs (bootable) • Up to (2) additional fixed NVMe M.2 4.0 SSDs to 8TB each (bootable) • Up to (2) removable 6G SATA SSDs rear access up to 8TB each
Sustained Read/ Write	NVME to 3.5GB/second per drive (up to 8 drives total)
Network	Quad 4x1G Copper Intel® i210 Gigabit Ethernet Controller 2x 10G SFP+ (Other network options available)
AI	Options for NVIDIA RTX A2000 / RTX 4000 SFF ADA and A2 Tensor Core GPU(s) for Artificial Intelligence (AI)/machine learning at the Edge
Security	Secure Boot UEFI compliant BIOS, Boot Guard, TPM2.0
Remote Management	IPMI, HTML5 and API based out of band management with MAC addresses identification, one time boot on next reboot option, PXE boot option, Redfish compatible Out of Band (OBB) management connection
Operating Systems	• Ubuntu 22.04 and (24.04 May release) • Red Hat 8, 9 Enterprise Linux, CentOS and Rocky Linux
Power	1+1 hot swap redundant 600W or single 850W 80 Plus Platinum PSU
Display	Configurable LCD to display hostname and IP address
Environmental	• 0°C–40°C / 32°F–104°F. Non-Operating: -20°C–70°C, -4°F–158°F. • Relative humidity (5-95%) non-condensing • FCC Class A, CE, TUV, ROHS, Conflict Minerals Free
Physical	• 3.46" H x 17.25" W x 12.60" D standard rack mount (2 and 4 point) • 9" H x 21.75" W x 13.875" D (complete system including operational hard case)
Transport Case	• Optional rack mounting into TSA carry-on operational compliant case with telescoping handle and wheels. • Optional 4U case with tray for accessories.
Warranty	1 year parts and labor. 2nd and 3rd year warranty options
Ease of Service and Upgrade	Most storage options are removable without tools. Easy access for install and removal of PCI Express cards. Easy to service other system elements. Modular design

21.75"

13.875" 9.00"

TSA carry-on compliant dimensions

Purpose-Built Solutions	NextComputing designs/manufactures its NextServer-X product line in the USA (TAA compliant) and offers custom configurations, chassis modifications, software integration services and other FAK kitting options, and private label branding options. Includes purpose built application integration and configuration control management services
Optional Software	Packet capture software: Packet Continuum Suricata, PCAP, Elastic software suite) or open suite tools (ELK, Zeek, Suricata, PCAP) at 10+ Gbps (packetcontinuum.nextcomputing.com/)
Optional Configurations	• Malware Suite software and hardware: NextComputing Malware software stack/ VM suite of tools and collection hardware kit (in separate TSA carryon case) • Forensics Suite software and hardware: NextComputing Forensics software stack/ VM suite of tools and collection hardware kit (in separate TSA carryon case) • Pentest Suite software and hardware: NextComputing Pentest software stack/ VM suite of tools and collection hardware kit (in separate TSA carryon case) • Deployable Network tap/aggregator: Separate system options for Network tap/aggregators in our operational TSA carryon hardcase • Deployable Network Switch: Separate system options for 100Gbps Network Switch in our operational TSA carryon hardcase • Mobile Workstations: Separate system options for thin client laptops or full client mobile workstations (solutions.nextcomputing.com/products/portable-workstations/edge-p100/)

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