



# NEXTSERVER-X 2U

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

- Single Intel Xeon or AMD EPYC processor
- Removable mid-plane based drive bays for up to (10) NVME 2.5" drives, up to 30.76TB 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, VMware vSphere, Windows Server, Windows 10
- (7) PCI Express slots for ½ height PCI Express cards to ¾ length cards 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

## SPECS

Available CPUs	<ul style="list-style-type: none"><li>• Single Intel® Xeon™ processor</li><li>• AMD EPYC™ processor</li></ul>
Memory	3200 MHz ECC RAM to 2TB
PCI Expansion	(7) PCI Express slots for ½ height PCI Express cards to ¾ length cards or 9" length
Storage	<ul style="list-style-type: none"><li>• Removable mid-plane based drive bays for up to (8) NVME 2.5" drives capacities up to 30.76TB per high endurance data processing and recording SSD as JBOD or RAID 0/1/5/6 configurations</li><li>• Optional single or dual (4) port NVME HBA cards to support up to (8) removable U.2 NVMe SSDs (bootable)</li><li>• Up to (2) additional fixed NVMe M.2 4.0 SSDs to 8TB each (bootable)</li><li>• Up to (2) removable 6G SATA SSDs rear access up to 8TB each</li></ul>
Sustained Read/Write	NVME to 3.5GB/second per drive (up to 8 drives total)
Network	<ul style="list-style-type: none"><li>• Options for multiple 4x1G, 4x10G SFP+ , 2x25G SF28, 2x40G QSFP28, 1x100G, 2x100G QSFP28 NIC cards</li><li>• Standard: (2) 10Gbps Ethernet Ports and IPMI (Remote Management)</li></ul>
AI	<ul style="list-style-type: none"><li>• Options for NVIDIA RTX A2000 / RTX 4000 SFF ADA and A2 Tensor Core GPU(s) for Artificial Intelligence (AI)/machine learning at the Edge</li></ul>
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	<ul style="list-style-type: none"><li>• Red Hat and Cent OS Enterprise Linux</li><li>• VMWare vSphere</li><li>• Windows Server, Windows 10, Windows 11</li></ul>
Power	1+1 hot swap redundant 600W or single 850W 80 Plus Platinum PSU
Display	Configurable LCD to display hostname and IP address
Environmental	<ul style="list-style-type: none"><li>• 0°C–40°C / 32°F–104°F. Non-Operating: -20°C–70°C, -4°F–158°F.</li><li>• Relative humidity (5-95%) non-condensing</li><li>• FCC Class A, CE, TUV, ROHS, Conflict Minerals Free</li></ul>
Physical	<ul style="list-style-type: none"><li>• 3.46" H x 17.25" W x 12.60" D standard rack mount (2 and 4 point)</li><li>• 9" H x 21.75" W x 13.875" D (complete system including operational hard case)</li></ul>
Transport Case	Optional rack mounting into TSA carry-on operational compliant case with telescoping handle and wheels
Warranty	1 year parts and labor. 2nd and 3rd year warranty options



TSA carry-on compliant dimensions



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<b>Ease of Service and Upgrade</b>	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
<b>Purpose-Built Solutions</b>	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
<b>Optional Software</b>	Packet capture software: Packet Continuum Suricata, PCAP, Elastic software suite) or open suite tools (ELK, Zeek, Suricata, PCAP) at 10+ Gbps ( <a href="http://packetcontinuum.nextcomputing.com/">packetcontinuum.nextcomputing.com/</a> )
<b>Optional Configurations</b>	<ul style="list-style-type: none"> <li>• Malware Suite software and hardware: NextComputing Malware software stack/ VM suite of tools and collection hardware kit (in separate TSA carryon case)</li> <li>• Forensics Suite software and hardware: NextComputing Forensics software stack/ VM suite of tools and collection hardware kit (in separate TSA carryon case)</li> <li>• Pentest Suite software and hardware: NextComputing Pentest software stack/ VM suite of tools and collection hardware kit (in separate TSA carryon case)</li> <li>• Deployable Network tap/aggregator: Separate system options for Network tap/aggregators in our operational TSA carryon hardcase</li> <li>• Deployable Network Switch: Separate system options for 100Gbps Network Switch in our operational TSA carryon hardcase</li> <li>• Mobile Workstations: Separate system options for thin client laptops or full client mobile workstations (<a href="http://solutions.nextcomputing.com/products/portable-workstations/edge-p100/">solutions.nextcomputing.com/products/portable-workstations/edge-p100/</a>)</li> </ul>

### *Defensive Cyber Ops Fly-Away Kit*

CPU	<ul style="list-style-type: none"> <li>AMD EPYC™ 3rd generation Processor 64 cores/128 Hyperthreads <ul style="list-style-type: none"> <li>Options for other AMD EPYC 3rd generation processors, single Intel Xeon 3rd generation up to Platinum 36 core/72 Hyperthreading, Intel 4th generation Xeon processors, and Intel 13th generation Core i9 processors</li> </ul> </li> </ul>
Memory	<ul style="list-style-type: none"> <li>1TB 3200 MHz ECC RAM <ul style="list-style-type: none"> <li>Options up to 2TB</li> </ul> </li> </ul>
PCI Expansion	(7) PCI Express 4.0 slots for ½ height PCI Express cards to ¾ length cards or 9" length
Storage	<ul style="list-style-type: none"> <li>Removable mid-plane based drive bays for with quantity (8) 30.72TB 12G SAS SSDs with hardware RAID controller (RAID 0, 5, 6)</li> <li>Quantity (2) NVMe M.2 PCIe 4.0 3.84TB SSDs on PCIe Carrier</li> <li>Quantity (2) NVMe M.2 PCIe 4.0 960GB SSDs RAID 1 PCIe Carrier or optionally RAID 0</li> <li>Quantity (2) removable mid-plane based drive bays for 2.5" 6G SATA SSDs up to 8TB capacity <ul style="list-style-type: none"> <li>Option for removable mid-plane based drive bays for with quantity (8) NVMe U.2/U.3 2.5" drives capacities up to 30.76TB</li> </ul> </li> </ul>
Network	<ul style="list-style-type: none"> <li>Quantity (2) 10Gbps Ethernet Ports and IPMI (Remote Management)</li> <li>Quantity (1) 100G x 2 Intel Ethernet Adaptor <ul style="list-style-type: none"> <li>Options for multiple 4x1G, 4x10G SFP+ , 2x25G SF28, 2x40G QSFP28, 1x100G, 2x100G QSFP28 NIC cards</li> </ul> </li> </ul>
GPU Processing	Options for NVIDIA RTX4000 SFF Ada, NVIDIA RTX A2000 SFF 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	<ul style="list-style-type: none"> <li>Support for Red Hat and Cent OS Enterprise Linux</li> <li>Support for VMWare vSphere hypervisor</li> <li>Support for Windows Server, Windows 10</li> </ul>
Power	<ul style="list-style-type: none"> <li>1+1 hot swap redundant 600W 80 Plus Platinum PSU <ul style="list-style-type: none"> <li>Option for 850W single 80 Plus Platinum PSU</li> </ul> </li> </ul>
Display	Configurable LCD to display hostname and IP address
Environmental	<ul style="list-style-type: none"> <li>0°C–40°C / 32°F–104°F. Non-Operating: -20°C–70°C, -4°F–158°F.</li> <li>Relative humidity (5-95%) non-condensing</li> <li>FCC Class A, CE, TUV, ROHS, Conflict Minerals Free</li> </ul>
Physical	<ul style="list-style-type: none"> <li>3.46" H x 17.25" W x 12.60" D standard rack mount (2 and 4 point)</li> <li>9" H x 21.75" W x 13.875" D (complete system including operational hard case)</li> </ul>
Transport Case	Includes operational TSA carry-on operational compliant case with telescoping handle and wheels
Warranty	<ul style="list-style-type: none"> <li>1 year parts and labor (Includes allowing customer access to internals of system) <ul style="list-style-type: none"> <li>Options for 2nd and 3rd year warranty options</li> </ul> </li> </ul>
Easy Service & Upgrade	Easy access to system. Easy to service other system elements. Modular design
Purpose-Built Solutions	Private label branding and labeling options. Purpose built application integration and configuration control management services.