

VANGUARD 1U



**1U Rack Based
MIL-STD-COMPLIANT
Servers**

- ✓ Latest generation of Intel® Scalable Xeon® processors
- ✓ Fully featured, dual socketed system board
- ✓ Hot-Swap storage bays with two lockable 2.5" devices; front panel accessible
- ✓ High performance R/W optimization with data security (Quick Erase/Security Erase/Destroy/Write Protect) SSD Options
- ✓ 800W wide-range AC input power supply
- ✓ Six (6) removable, high-reliability, high velocity fans
- ✓ Short depth (22-inch), 19" rackmount with rugged sliders
- ✓ MIL-STD-810G, MIL-STD-167, MIL-STD-461G qualifications
- ✓ Made in Canada & USA



FEATURES:

OPERATING SYSTEM	Windows 10 Pro, Windows 10 Enterprise LTSC, Windows Server 2016 or Linux	BIOS AND SOFTWARE	Aten UEFI, Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, SuperDoctor® 5, Watchdog
PROCESSOR	2nd Generation Intel® Xeon® Scalable Processors (Cascade Lake-SP), Intel® Xeon® Scalable Processors. Dual Socket P (LGA 3647) supported	PERIPHERAL DEVICES	Four (4) USB 3.0 ports on the rear I/O panel
CHIPSET	Intel® C622 Chipset	TRUSTED PLATFORM MODULE	TPM 2.0
MEMORY	Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 3TB 3DS ECC LRDIMM, DDR4-2933MHz, in 12 DIMM slots	POWER	100-250VAC 800W wide-range power supply, US Standard EIA Plug
STORAGE	SATA 3.0 - two (2) ports RAID Support via PCH - RAID 0, 1, 5, 10 M.2 (2280) Interface, SATA3.0, 6.0Gb/s	MECHANICAL	Outer Chassis: Machined aluminum alloy #6061 T651 Dimensions: 1U x 19" W x 22" D Weight: Payload dependent
BASE BOARD MANAGEMENT CONTROLLER	ASPEED AST2500 BMC supports IPMI 2.0 One (1) dedicated IPMI LAN VGA Graphics controller via AST2500 BMC	ENVIRONMENTAL	Operating Temp: 0-50°C; Storage Temp: -40-70°C Humidity: Up to 95% Non-Condensing Vibration: MIL-STD-167-1A & random vibration per MIL-STD-810G Shock: Operating while exposed to 20g shocks per MIL-STD-810G EMI/EMC: Tested per MIL-STD-461G
ETHERNET LAN	Dual 10 Gbase-T LAN	QUALIFICATIONS	MIL-STD-1399, MIL-STD-810G, MIL-STD-461G MIL-STD-167
EXPANSION SLOTS	Two (2) PCI-Express 3.0 x16 riser slots One (1) PCI-Express 3.0 x32 riser slot M.2 Interface: 1 SATA/PCI-E 3.0 x4 M.2 Form Factor: 2242, 2260, 2280, 22110, M-Key	OPTIONAL 3RD PARTY PCIE CARDS	High Performance 3rd Party Graphics Reflective Memory MIL-STD-1553, ARINC 429 Ports

VANGUARD ORDERING INFORMATION:

