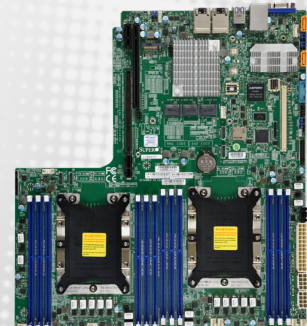


# VANGUARD<sup>®</sup> 1U



## PRODUCT HIGHLIGHTS

- ⓘ Latest generation scalable Intel<sup>®</sup> Xeon<sup>®</sup> processing options
- ⓘ Fully featured, dual socketed system board
- ⓘ Hot-swappable, front panel accessible storage bays for up to eight (8) 2.5" drives
- ⓘ High performance R/W optimization with data security (quick erase / security erase / destroy / write protect) SSD/SAS options
- ⓘ Hot-swap, dual-redundant, wide-range AC input power supply
- ⓘ Six (6) removable, high reliability, high velocity fans
- ⓘ 19" rackmount with custom rugged slider options
- ⓘ MIL-STD-810, MIL-STD-167, MIL-STD-461 qualifications
- ⓘ Made in Canada & USA



## FEATURES

|   |   |                                |  |
|---|---|--------------------------------|--|
| <b>OPERATING SYSTEM</b>                 | Windows 10 Pro, Windows 10 Enterprise LTSB, Windows Server 2016 or Linux  | <b>NIC</b>                     | Optional: Broadcom BCM957504-P425G quad-port 25GbE SFP28 ethernet  |
| <b>PROCESSOR</b>                        | Latest gen scalable Intel® Xeon® processors including single/dual CPU configurations, with up to 28 cores per CPU @ 2.2GHz                        | <b>SFP</b>                     | Optional: SFP28 25GbE LC transceiver E25GSFP28SRX  |
| <b>MEMORY</b>                           | Up to 4TB of DDR4-3200 RAM with ECC in 16 REG DIMM slots  | <b>BIOS AND SOFTWARE</b>       | AMI UEFI, Intel® Node Manager, IPMI v1.5/2.0, KVM support, dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog   |
| <b>CHIPSET</b>                          | Intel® C622 Chipset   | <b>TRUSTED PLATFORM MODULE</b> | TPM 2.0 with support for Intel® vPro Technology and Intel® Trusted Execution Technology (Intel® TXT)   |
| <b>STORAGE</b>                          | Up to eight (8) slots for FIPS SSD/SAS removable drives<br>Optional: 256GB and more NVMe storage via M.2 slot<br>RAID: Broadcom MegaRaid 9560-16i | <b>POWER</b>                   | 100-250VAC wide-range, 800W or 1,000W dual-redundant power supply, US Standard EIA Plug  |
| <b>BASE BOARD MANAGEMENT CONTROLLER</b> | ASPEED AST2600 BMC supports IPMI v1.5/2.0<br>One (1) dedicated IPMI LAN port (rear)<br>VGA Graphics controller via AST2600 BMC                    | <b>MECHANICAL</b>              | Outer Chassis: Machined aluminum alloy overlapping panel extrusions for superior EMC and zero torsional flex<br>Dimensions: 1U x 19" W and depths in options of 22" or 24"<br>Weight: Payload dependent  |
| <b>ETHERNET LAN</b>                     | Optional: Four (4) 10/100/1000 BaseT ports<br>Optional: Dual 10GbE BaseT ports  | <b>ENVIRONMENTAL</b>           | Operating Temp: 0 to +40°C<br>Storage Temp: -40 to +70°C<br>Humidity: Up to 95% Non-Condensing<br>Vibration: MIL-STD-167 & random vibration per MIL-STD-810<br>Shock: Operating while exposed to 20g shocks per MIL-STD-810<br>EMI/EMC: Tested per MIL-STD-461 |
| <b>EXPANSION SLOTS</b>                  | Up to six (6) x16 PCIe 4.0 slots<br>Eight (8) PCIe 4.0 NVMe internal ports<br>M.2 interface via two (2) x1 PCIe 2.0<br>M.2 M-key                  |                                |  |
| <b>USB</b>                              | Up to five (5) USB 3.0 ports  |                                |  |

## ORDERING INFORMATION

Contact us at **855.365.2188** or visit [jsquared.com/general-inquiries](https://jsquared.com/general-inquiries) to begin the ordering process.

