

**TRENTON  
SYSTEMS**  
Rugged Computers

**SSP8268**  
Motherboard

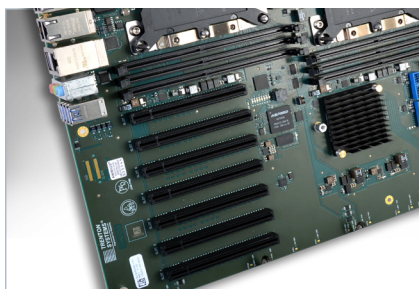
## DUAL INTEL® XEON® CASCADE LAKE-SP CPUs & 7 PCIe SLOTS

Long-life high-performance motherboard manufactured in the USA

### Built like a tank

Astonishing performance using multi-core CPUs & revision-controlled long-life components designed for rugged environments. Stress-tested for extreme shock & vibrate settings, making it the perfect choice for industrial, military, and other harsh-climate computing applications. Comes standard with TPM 2.0, IPMI Remote Management & Monitoring, and NVMe Ports.

## PRODUCT DETAILS



### Seven PCIe Gen3 Slots

Allows for versatile system expansion.



### Seven 1 GbE Ports

Ideal for IoT & Cloud Applications.



### Two NVME U.2 Ports

High-speed next generation storage interface.



[www.trentonsystems.com](http://www.trentonsystems.com)  
Visit our website for more info.

Phone: (770) 287-3100  
Email: [sales@trentonsystems.com](mailto:sales@trentonsystems.com)

**Model Number**

SSP8268

**Board Type**

SSI Motherboard

**CPU**

Intel® Xeon® Scalable Performance (Cascade Lake-SP/Skylake-SP) Processors., Dual Socket P (LGA3647), CPU TDP up to 125W each

**Chipset**

Intel® C622

**Memory**12x DDR4-2400/2666/2933 ECC Registered DIMM Slots supporting Standard & Load-Reduced Memory  
Six Channels up to DDR4-2933 1.5TB standard memory and up to 4.5TB of Optane DC memory (per CPU)**PCIe Slot Configuration**

- x16 Mechanical Slots
  - 3x PCIe Gen3 x16
  - 4x PCIe Gen3 x8

**On-Board Connectors**

2x U.2 Ports supporting x4 Gen3 ports each (SFF-8639)  
6x SATA/600  
2x 20-pin USB3.0 headers (2 ports each)  
6x PWM Fan Headers

**Rear I/O**

5 USB 3.0  
7x Gigabit Ethernet (10/100/1000) - 1 shared with Out of Band Management

- 1x i350 Quad Controller
- 1x i350 Dual Controller
- 1x i210 GbE (shared)

Line Out, Line In, Microphone 3.5mm Mini Audio Jacks/Realtec LALC262 Codec  
1x RS232 DB9 Serial Connector  
1x VGA 1920x1200@60Hz 32bpp

**Trenton Systems BIOS**

In-house revision-controlled BIOS with customization/optimization available (contact Trenton Systems for more info)

**Trenton Smart System Management**

AST2500 Baseband Management Controller consisting of:

- rKVM
- System Monitoring
- Out of Band Management
- TPM 2.0 down on the board (no header like other motherboards!)

**Environmentals**

Operating Temperature: 0°C - 50°C  
Storage Temperature: -40°C - 70°C  
Humidity: 5% - 90% Non-Condensing

**Dimensions**[www.trentonsystems.com](http://www.trentonsystems.com)

Visit our website for more info.

Phone: (770) 287-3100

Email: [sales@trentonsystems.com](mailto:sales@trentonsystems.com)