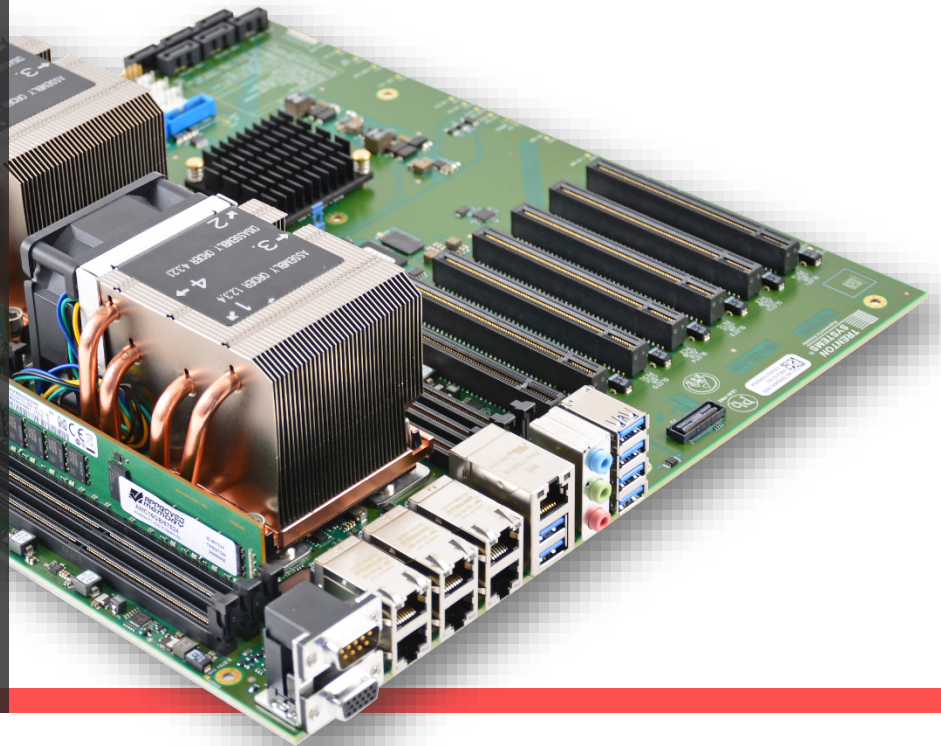




SSP8268

Motherboard Servers

RUGGEDIZED | MADE IN USA



Thrives in Extreme Environments

Designed for heavy workloads and mission-critical applications. Load your OS and other time-critical files on lightning fast NVMe drives directly connected to the CPUs and RAM for high throughput and low latency. Configure to spec with lots of PCIe slots, I/O options, and rugged



Processing Powerhouse

2nd Gen Intel® Xeon® SP CPUs with 12x high-frequency RAM slots that deliver higher performance and scalability.

Max System Expansion

7x PCIe 3.0 slots enable configurations to current and future system requirements while reducing overall system latency.

Configuration Versatility

Lots of storage, I/O options, rugged chassis, and add-ons like our JBOD or PCIe Expansion System to meet your specs & requirements.

Section 1 / System Overview

PROCESSOR BOARD

SSP8268 | Type: SSI Motherboard

COMPATIBLE CHASSIS MODEL NUMBER(S)

TRC2010, THS2085, TRC2019, THS4086, THS4095, TRS4019, TRC3010; [Contact us for custom options](#)

PROCESSORS

- ▶ 2nd Gen Intel® Xeon® SP CPUs, LGA3647, Socket P
- ▶ CPU TDP support up to 125W

CPU	Cores/Threads	Frequency	Cache	TDP
Gold 6230	20/40	2.10-3.90GHz	27.5MB	125W
Gold 5218	16/32	2.30-3.90GHz	22MB	125W
Silver 4209T	8/16	2.20-3.20GHz	11MB	70W

MEMORY

Slots: 12x DDR4 RDIMM sockets

Capacity: Up to 1.5TB DDR4 ECC SODIMM

Type: 2400/2666/2933 ECC DDR4 UDIMM

DIMM Sizes: 64GB, 32GB, 16GB, 8GB

Error Detection: Corrects single-bit errors and detects double-bit errors using ECC memory

STORAGE

Type(s): 6x 2.5" SSD/HDD SATA3 (6 Gbps) drives up to 15mm height; 2x MiniSAS NVMe x4 PCIe 3.0

Capacity: Up to 1TB per drive (larger capacities available upon request)

PCIe SLOT CONFIGURATION

Type(s): 7x PCIe 3.0 x16 mechanical slots

- ▶ 3x PCIe 3.0 x16 electrical
- ▶ 4x PCIe 3.0 x8 electrical

ON-BOARD DEVICES

Chipset: Intel® C622

IPMI: Support for Intelligent Platform Management Interface v2

- ▶ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
- ▶ ASPEED AST2500 BMC

Network Controllers:

- ▶ Intel® i350 Gigabit Ethernet
- ▶ Supports 1000BASE-T, RJ-45 output

Graphics: Intel® Integrated Graphics & ASPEED AST2500 BMC

TPM 2.0: Secure cryptoprocessor that helps you with actions such as generating, storing, and limiting the use of cryptographic keys

INPUT / OUTPUT

USB: 5x USB 3.0 Ports

Display: 1x VGA Port 1920x1200@60Hz 32bpp

LAN: 7x RJ-45 Gigabit Ethernet LAN ports

- ▶ 6x RJ-45 Gigabit Ethernet LAN ports
- ▶ 1x RJ-45 Gigabit Ethernet LAN/IPMI shared port

Serial: 1x RS232 DB9 Serial Port

MOTHERBOARD DIMENSIONS

Length: 12.0" | 30.48 cm

Width: 13" | 33.02 cm

**System dimensions dependent on rugged chassis selection.*

FRONT PANEL

- ▶ 3x USB Ports
- ▶ Power Button
- ▶ Audio In/Out
- ▶ Fault and Hard Drive Activity LEDs

**Dependent on rugged chassis selection.*

SYSTEM COOLING

6x PWM Fan Headers; 2x CPU Blower Fans (1 per CPU)

POWER SUPPLY

Up to 1200W Fixed, Redundant, or Removable

**Dependent on rugged chassis selection.*

SYSTEM BIOS

BIOS Type: 128 Mb SPI NOR Flash with Insyde BIOS

BIOS Features:

- ▶ Plug and Play (PnP)
- ▶ APM 1.2
- ▶ PCI 2.2
- ▶ ACPI 1.0 / 2.0
- ▶ USB Keyboard Support
- ▶ SMBIOS 2.3
- ▶ UEFI

SYSTEM MANAGEMENT

AST2500 Baseband Management Controller: rKVM, System Monitoring, Out of Band Management

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: 0°C - 50°C

Storage Temperature: -40°C - 70°C

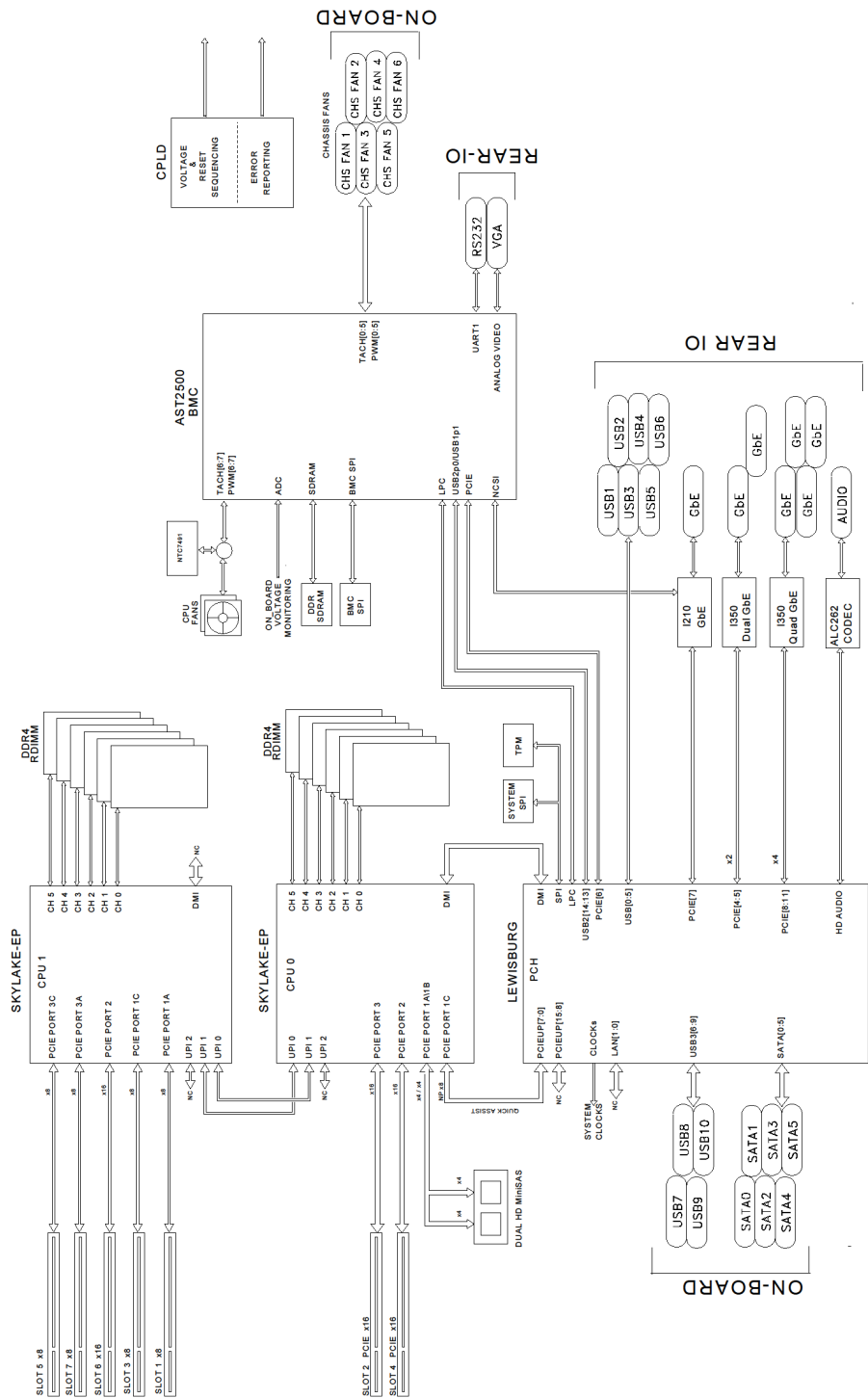
Operating Humidity: 8% - 90% Non-Condensing

Non-operating Humidity: 5% - 95% Non-Condensing

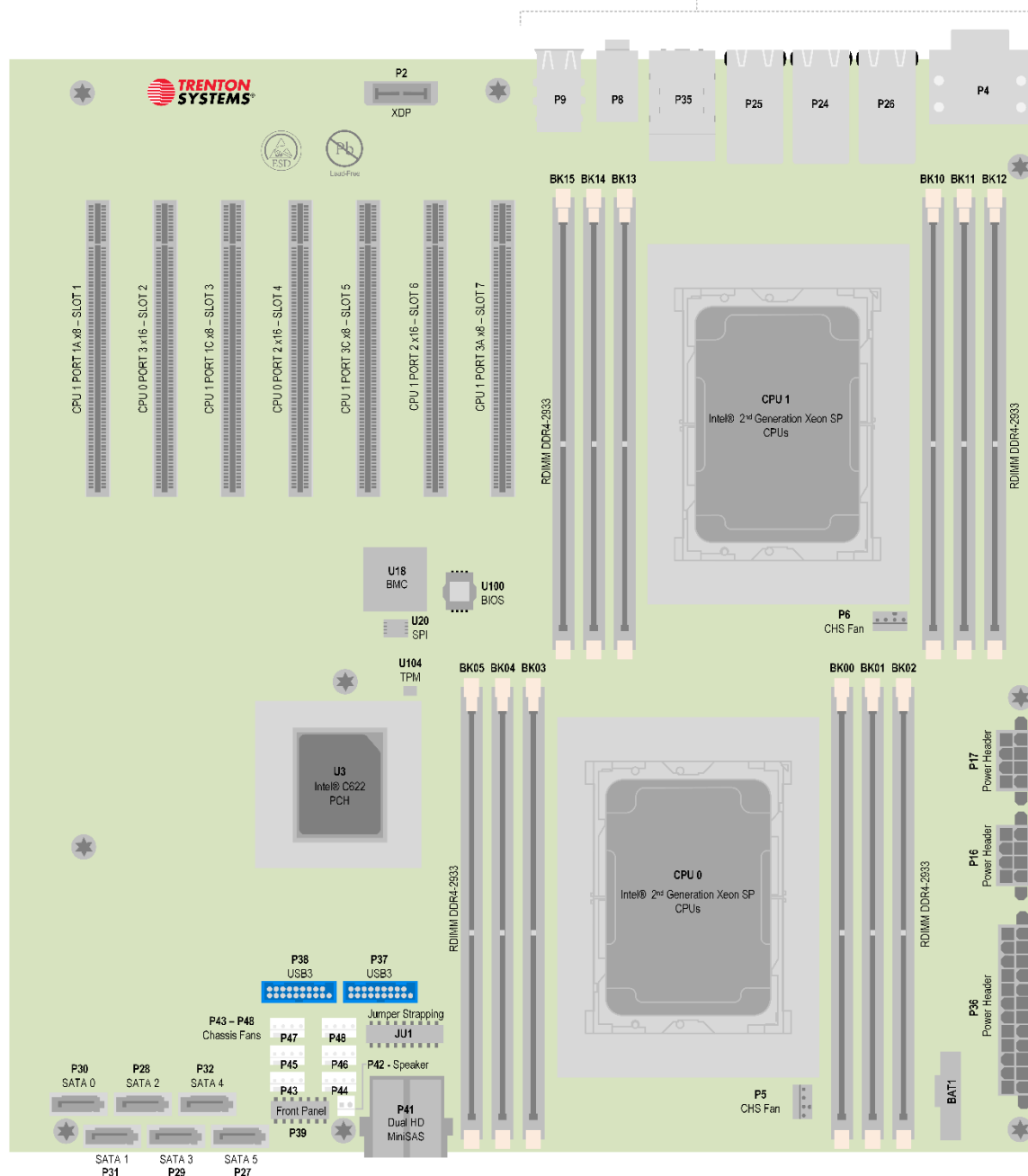
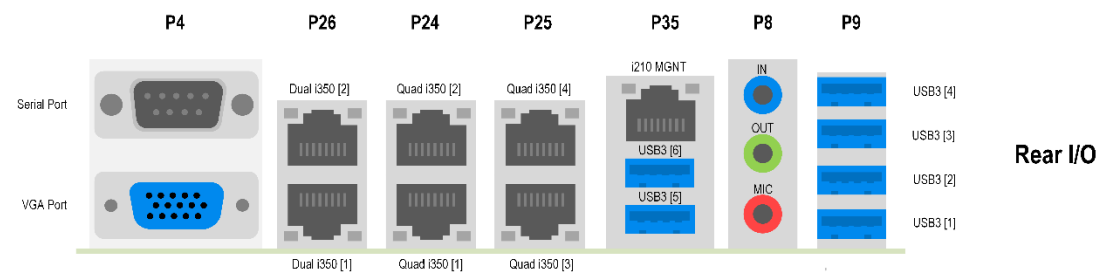
**Numbers noted are dependent on CPU selection. Please [contact Trenton Systems](#) for specific CPU environmental specs.*



BLOCK DIAGRAM



LAYOUT DRAWING





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