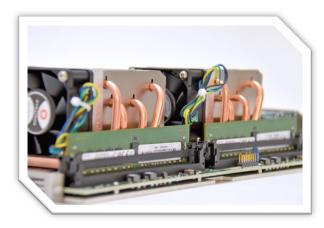


Perform with Ease in Harsh Conditions

Achieve peak mission-critical performance with Xeon[®] Scalable Performance Silver & Gold processors. HDEC Series architecture delivers 88 lanes of PCIe to compatible backplane. Up to 44 cores / 88 threads and 8 ECC RDIMMS with up to 3TB of DDR4.





Dual Xeon® SP CPUs

2nd Gen Intel® Xeon® SP CPUs deliver high performance and ECC RAM to ensure consistency and prevent data corruption.

Room for Expansion

With 88 lanes of PCIe Gen 3, worrying about whether you have enough expansion opportunities becomes a thing of the past.

Highly Configurable

Choose your rugged chassis, a compatible PCIe backplane, some rugged storage, and customize your own I/O interface.

Section 5 / System Overview

PROCESSOR BOARD

SEP8253 | Type: HDEC Series

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	20/40	2.10-3.90GHz	27.5MB	125W
6230				
Gold	16/32	2.30-3.90GHz	22MB	125W
5218	10/32	2.30-3.900112	ZZIVID	12300
Silver	8/16	2.20-3.20GHz	11MB	70W
4209T	8/10	2.20-3.20GHZ	LLINID	7000

MEMORY

Slots: 8x DDR4 RDIMM

Capacity: Up to 1.5TB DDR4 ECC RDIMM Type: 2400/2666/2933 ECC DDR4 RDIMM **DIMM Sizes:** 64GB, 32GB, 16GB, 8GB

Error Detection: Corrects single-bit errors and detects

double-bit errors using ECC memory

STORAGE

Type(s): 1x 2.5" SSD/HDD SATA3 (6 Gbps) drive up to

15mm height

Capacity: Up to 1TB per drive (larger capacities

available upon request) **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:

▶ 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: 4x USB 3.0 Ports

Display: 1x VGA Port 1920x1200@60Hz 32bpp LAN: 4x RJ-45 Gigabit Ethernet LAN ports ▶ 3x RJ-45 Gigabit Ethernet LAN ports

▶ 1x RI-45 Gigabit Ethernet LAN/IPMI shared port

Serial: 1x RS232 DB9 Serial Port

PROCESSOR BOARD DIMENSIONS

Length: 13.345" | 30.858 cm Width: 5.570" | 14.6 cm

*System dimensions 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

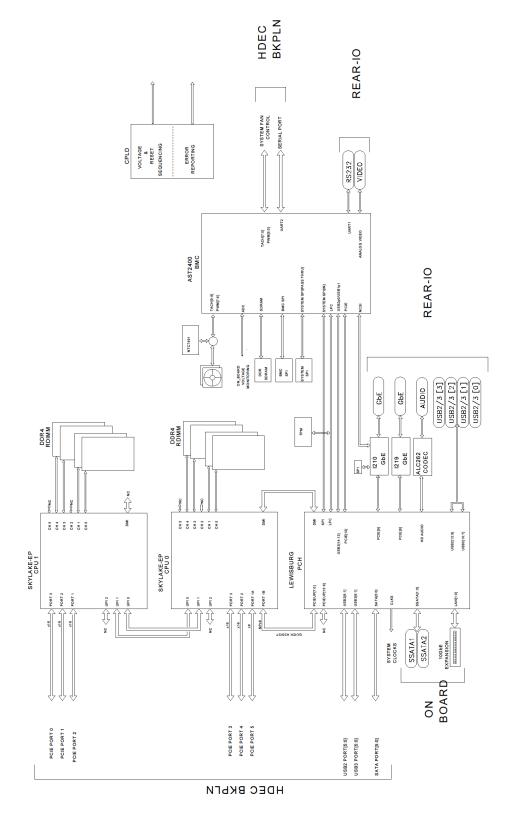
Operating Humidity: 8% - 90% Non-Condensing Non-operating Humidity: 5% - 95% Non-Condensing

FCC CE

*Numbers noted are dependent on CPU selection. Please <u>contact Trenton Systems</u> for specific CPU environmental specs.



BLOCK DIAGRAM





LAYOUT DRAWING

