



# Seadra



**2U1N2P**  
**3rd Gen Intel® Xeon® Scalable Processors-Based Server System**

## Highlights

- **Great Scalability with OCP 3.0 plus Support up to 6x PCIe Gen4 x16 Slots**
- **Efficient Dual Processor Supports TDP up to 300W**
- **12 LFF / 24 SFF HDD Bays within a 2U Chassis**
- **Easy Serviceability with the Modular Design**
- **Impressive TCO Reduction**

Seadra is a high performance 2U dual socket server equipped with 3rd Gen Intel® Xeon® Scalable processors that supports TDP up to 300W and features a memory capacity of up to 6TB. Designed with up to 6x PCIe Gen4 x16 slots and 1x OCP 3.0 slot, Seadra not only offers high bandwidth network communication capabilities which translate into an outstanding performance with scalability and flexibility, also features an impressive reduction of its TCO. As a strong and capable Intel® platform for data-fueled enterprises, Seadra is ideal for a wide array of applications of virtualization, hyperconverged storage, cloud computing and high-end enterprise servers.

### Enhanced Performance

The latest 3rd Gen Intel® Xeon® Scalable processors deliver industry-leading, workload-optimized platforms with built-in AI acceleration (up to 1.93x more AI training performance for image classification compared with the prior generation), providing a seamless performance foundation to help speed data's transformative impact, from the multi-cloud to intelligent edge and back. In addition, with hardware-enhanced security, 3rd Gen Intel® Xeon® Scalable processors can help thwart malicious exploits while maintaining workload integrity with reduced performance overhead. Provide trusted service delivery with high availability and encryption efficiency at rest, in-use and in-flight.



Virtualization



Hyperconverged Storage



Cloud Computing



High End Enterprise Server

## Front View



## Rear View



## Great Scalability and Flexibility within a 2U Chassis

Adopts the Intel® C621A chipset which supports dual 3rd Gen Intel® Xeon® Scalable processors and up to 6TB of DDR4 memory, Seadra provides with 40 cores, 80 threads and 32x DDR4 DIMM slots in addition to the support of the Intel® Optane™ Persistent Memory. The memory subsystem includes up to 8 channels per socket with 1 DPC. Also, Seadra offers a PCIe Gen4 interface, which allows for up to 100 GbE networking as well as 7 slimline x8 PCIe 4.0 and 3x miniSAS (x4) SATA 3 for storage, delivering high-speed connectivity and ideal for High Performance Computing (HPC) applications. Moreover, Seadra offers hot-pluggable drives with its modular front cage design, ranging from regular SATA/SAS bays to maximum 24x U.2 NVMe drives. Together with the OS drive supports from the two internal M.2 SATA. Seadra is well-prepared for the diverse scenarios of hyperconverged storage, including content acceleration.

## Serviceability and Reliability with the Modular Design

Designed with a highly modular architecture, Seadra supports tool-less operations of serviceable parts to achieve high serviceability. Moreover, in order to further enhance its high reliability, Seadra provides N+1 redundancy for both the power and cooling fans.

### About Inventec Data Center Solutions (Inventec EBG)

Inventec Data Center Solutions (Inventec EBG) was established in 1998 and has been focusing on the design and manufacturing of server systems in Inventec Corporation. Over decades, Inventec EBG has been the key server system supplier of the global branding clients.

# Seadra | Intel® Xeon® Server

<b>Positioning</b>	General Purpose
<b>Form Factor</b>	2U1N2P Rack-Mounted W x H x D: 438 x 87.9 x 780 mm (17.24 x 3.43 x 30.71 inch)
<b>Processor</b>	Dual Socket; 3rd Gen Intel® Xeon® Scalable Processors TDP up to 300W
<b>Memory Slot</b>	32x DDR4 DIMM slots 8 Channels per CPU, total 16 Channels DIMM Type: RDIMM, LRDIMM, 3DS DIMM, BPS DIMM 3200 MT/s (2DPC) Support Intel® Optane™ Persistent Memory
<b>Chipset</b>	Intel® C621A
<b>Disk Drive Bay</b>	On board 2x SATA/PCIe (x1) M.2 <b>Front primary bays:</b> Option 1: 12x 3.5" SAS/SATA/NVMe Hot-plug Drives Option 2: 24x 2.5" SAS/SATA/NVMe Hot-plug Drives <b>Rear bays:</b> 2x 2.5" SAS/SATA/NVMe Hot-plug Drives
<b>Expansion Slot</b>	4x HHHL + 1x FHHL PCIe Gen4 x16 Cards + 2x SFF + 1x OCP 3.0 PCIe Gen4 x16 Mezz Slot
<b>SKU A</b>	
<b>SKU B</b>	3x FHHL + 2x FHFL + 1x HHHL PCIe Gen4 x16 Cards + 2x SFF + 1x OCP 3.0 PCIe Gen4 x16 Mezz Slot
<b>SKU C</b>	2x FHFLDW + 1x HHHL + 1x FHHL PCIe Gen4 x16 Cards + 2x SFF + 1x OCP 3.0 PCIe Gen4 x16 Mezz Slot
<b>Network Controller</b>	Optional NIC 10G/25G/100G NIC via OCP3.0
<b>Storage Controller</b>	Onboard 7x Slimline (x8) PCIe 4.0 3x miniSAS(x4) SATA 3
<b>System Management</b>	Dedicated 1x 1/100/1000 Base-T (AST2500)
<b>TPM</b>	TPM2.0 (optional)
<b>Power Supply</b>	1+1 CRPS PSU, 800W/1300W/1600W/2000W (110-220VAC) Platinum
<b>Fan</b>	N+1 redundancy, 6x 6056 hot-swap fan

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