



## JC100 SERIES

### 1U High-Performance NVMe/SAS/SATA Cache Servers

The JC 100 series servers are high-performance, versatile, and scalable. These 1U dual-socket high-end rackmount servers deliver a truly unique platform for your application needs. They support robust memory, 3rd Generation Intel® Xeon® processors, fast NVMe/SAS/SATA drives for hybrid storage, and expansion ports to surpass your most demanding workloads.

#### Remarkable Performance

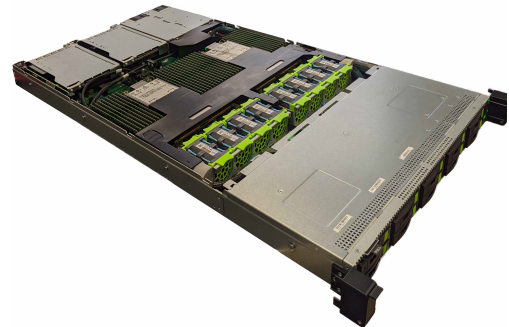
Featuring flexible storage capacity, processing power, and PCIe Gen4 and DDR4 memory, these servers maximize datacenter performance and efficiency. The 3rd Generation Intel® Xeon® Scalable processor microarchitecture for high-performance computing and exacting workloads, means you achieve better response time for more applications running simultaneously with increased total performance. Using SAS 4.0 (24Gbps) and/or NVMe PCIe Gen4 (16GT/s) interfaces increases data throughput over the previous generation.

#### Versatile Expandability

The JC100 series combines configurations of high performance NVMe, SAS, or SATA hybrid drive slots and Enterprise and Data Center SSD form factor (EDSFF) SSDs, offering:

- 10x 2.5" small form factor (SFF) NVMe/SAS/SATA drives, or
- 4x 3.5" large form factor (LFF) SAS/SATA drives with 2x 7mm SATA/NVMe SSDs, or
- 4x 3.5" LFF hybrid NVMe/SAS/SATA drive slots with 6x EDSFF E1.S NVMe SSDs
- 2x internal M.2 NVMe/SATA

Scalability up to 32x DDR4-3200 RDIMMs/LRDIMMs enables you to increase server memory as your application demands grow. And it includes Intel® Optane™ DC Persistent Memory (DCPMM) 200 Series support (up to 16x DCPMMs) for mission critical applications. Two PCIe Gen4 add-in card slots and an OCP 3.0 SFF mezzanine card slot allow for a wide array of network and storage controller connectivity, offering versatile solutions for your most challenging requirements.



#### Features

- Flexibility for price optimization
- Scalable for high-performance or cost savings
- Deploy systems at scale
- Enterprise class support
- Hot pluggable NVMe/SAS/SATA drives
- Power redundancy for failure free operation
- Increased memory capacity and speed
- Improved performance with SAS 4.0 and Gen4 PCIe/NVMe
- Intel® Optane™ DC PMem (DCPMM) 200 Series support
- Redfish API support



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## Specifications

Chassis	
Form Factor	1U EIA 310-D Rackmount
Models	JC100 (SFF & LFF) / JC102
Dimensions	
W x H x L	<ul style="list-style-type: none"> <li>436.mm x 42.8mm x 779.6mm</li> <li>17.2" x 1.69" x 30.7"</li> </ul>
Weight	Up to 40 lb/17.2 kg fully populated config
Processor/Cache	
CPU	<ul style="list-style-type: none"> <li>2x 3rd Generation Intel® Xeon® Scalable processors</li> <li>Dual Socket P+ (4189)</li> <li>Support CPU TDP up to 205W</li> <li>Up to 3 UPI</li> </ul>
Cores/Cache	Up to 32 cores/88MB cache
System Memory	
Memory Capacity	<ul style="list-style-type: none"> <li>Up to 32x DDR4-3200 RDIMM/LRDIMM</li> <li>Up to 16x DCPMMs (200 series)</li> </ul>
Memory Type	Up to DDR4-3200 ECC, up to 8TB max memory and 8TB DCPMM
DIMM Size	<ul style="list-style-type: none"> <li>RDIMM: Up to 128GB</li> <li>LRDIMM: Up to 256GB</li> <li>DCPMM 200 Series: Up to 512GB</li> </ul>
On-Board Devices	
Chipset	Intel® C621A Chipset
BMC	<ul style="list-style-type: none"> <li>IPMI 2.0 with virtual media over LAN, and KVM-over-LAN support</li> <li>Redfish supported</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Broadcom 10GBase-T controller, dual port (optional)</li> <li>10/100/1GbE dedicated BMC mgt RJ45</li> </ul>
NVMe RAID	VROC support
Security	<ul style="list-style-type: none"> <li>Trusted Platform Module (TPM) 2.0</li> <li>Intrusion Detection kit (optional)</li> </ul>
Additional Input/Output	
USB	<ul style="list-style-type: none"> <li>2x USB 3.0/2.0 (rear)</li> <li>1x Micro USB serial console port (rear)</li> <li>1x USB 3.0/2.0 (front)</li> </ul>
Video	1x VGA port (rear)

Front Panel	
Buttons	<ul style="list-style-type: none"> <li>Power Off/On</li> <li>UID (Front and Rear)</li> </ul>
LEDs	<ul style="list-style-type: none"> <li>UID (Front and Rear)</li> <li>Power Status</li> <li>System Health</li> <li>Network Activity</li> <li>Power Fault</li> <li>Drive Activity (on drive carrier)</li> <li>Drive Status (on drive carrier)</li> </ul>
Expansion Slots	
PCIe	<ul style="list-style-type: none"> <li>2x PCIe Gen4 x16</li> <li>2x FHHL</li> <li>1x OCP 3.0 SFF PCIe Gen4 x16</li> </ul>
Drive Options	
Hot swap drives	<ul style="list-style-type: none"> <li>10x 2.5" 24G SAS/6G SATA/PCIe Gen4 NVMe and U.2 drive connector (JC100-SFF), or</li> <li>4x 3.5" 12G SAS/6G SATA and 2x 7mm 6G SATA/PCIe Gen3 NVMe (JC100-LFF), or</li> <li>4x 3.5" 24G SAS/6G SATA/PCIe Gen4 NVMe and 6x EDSFF E1.S NVMe (JC102)</li> </ul>
Non-Hot swap	2x M.2 22110/2280 NVMe/SATA
System Cooling	
Fans	N +1 rotor level redundancy, 8x tool-less, hot swappable, dual rotor fans
Power Supply	
1300W/1600W 1+1 Redundant Platinum certified hot swappable PSUs	
Input	<ul style="list-style-type: none"> <li>200-240Vac/8A/47-63Hz (1300W)</li> <li>200-277Vac/10A/47-63Hz (1600W)</li> </ul>
Operating Environment/Compliance	
Operating Temperature	0°C to 55°C
Non-Operating Temperature	0°C to 55°C
Operating Relative Humidity	Up to 85%
Non-Operating Relative Humidity	Up to 95%
Operating Altitude	0 to 5,000 ft.
Non-Operating Altitude	0 to 15,200 ft.
Compliance/Regulatory	RoHS, FCC, UL, CE

#### Warranties and Limitation of Liability

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