



**FORMAT**<sup>®</sup>  
IMPOSSIBLE BECOMES REALITY

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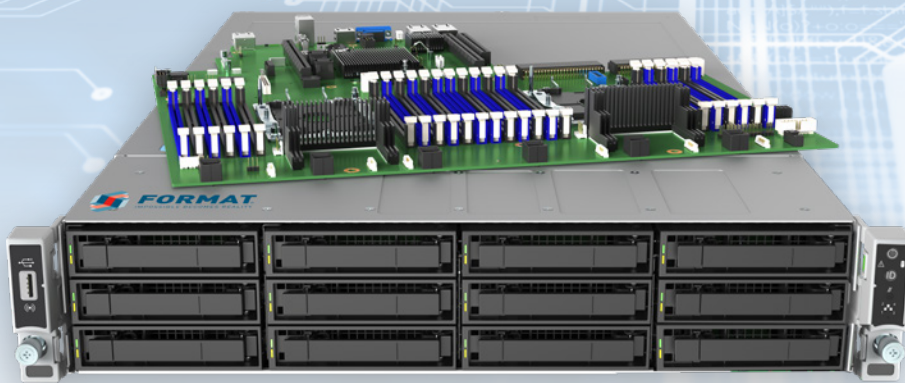
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# FormatServer THOR P224

## Full Featured with Maximum Flexibility for Expansion

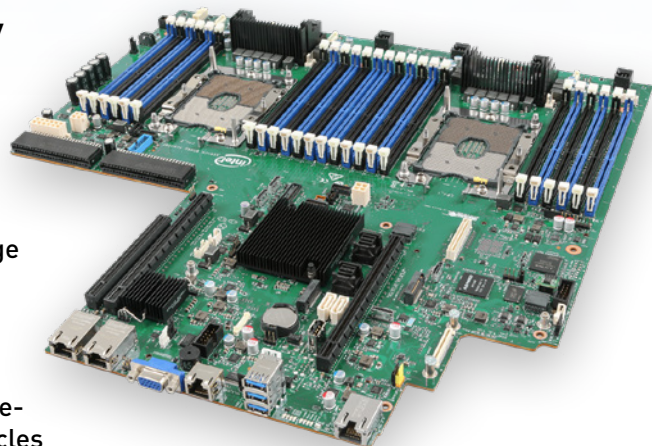


### Compute Performance, Large Memory Capacity and High Efficiency

FormatServer THOR P224 delivers power and performance at peak efficiency in a 1U and 2U rack mount server form factor that features the energy- efficient dual 2nd Generation Intel® Xeon® Scalable processor family. High memory capacity, networking, storage, and I/O flexibility combine with innovative design to provide an exceptional and reliable server for business IT, appliance, data center, cloud, and high performance computing applications.

## Future-Ready Platform for the Multi-Cloud, Data-Fueled Enterprise

- **2nd Generation Intel® Xeon® Scalable processor**
- **Support for Intel® Optane DC Persistent Memory**
- **Intel® Deep Learning Boost (Vector Neural Network Instruction)**
- **Intel® Omni-Path Architecture** integration delivering 100Gb/s port bandwidth for improved performance and lower latency in medium to large clusters.
- **Intel® QuickAssist Technology (Intel® QAT)** delivers up to 100Gbps performance for authentication, public key functions, and compression/de-compression workloads, while freeing up CPU cycles and reducing demands on the server.
- **Intel® Virtual RAID on CPU (Intel® VROC)** enables high-performance, highly scalable CPU-based RAID with NVMe with high IOPS and low latency.



**Hardware  
Compatible  
with OpenStack  
Cloud**

## Technical Specifications

FormatServer THOR P224	
Chassis Form Factor	2U, Spread Core Rack
Chassis Dimensions	16.93" x 27.95" x 3.44"
Board Form Factor	Custom 16.7" x 17"
Compatible Product Series	2nd Generation Intel® Xeon® Scalable Processors
Socket	Socket P
TDP	205 W
Heat Sink	(2) FXXCA78X108HS
Heat Sink Included	Yes
System Board	Intel® Server Board S2600WF0R
Board Chipset	Intel® C624 Chipset
Target Market	Mainstream
Rack-Friendly Board	Yes
Power Supply	1300 W
Power Supply Type	AC
# of Power Supply Included	1
Redundant Power Supported	Supported, requires additional power supply
Backplanes	Included
Memory & Storage	
Memory Types	DDR4 ECC RDIMM/LRDIMM 2133/2400/2666/2933 & Intel® Optane™ DC Persistent Memory Supported
Max # of DIMMs	24
Max Memory Size (dependent on memory type)	7.5 TB
# of Front Drives Supported	8
Front Drive Form Factor	Hot-swap 2.5"
# of Rear Drives Supported	2
Rear Drive Form Factor	2.5" SATA (optional)
# of Internal Drives Supported	2
Internal Drive Form Factor	M.2 SSD
Intel® Optane™ DC Persistent Memory Supported	Yes

Processor Graphics	
Integrated Graphics	Yes
Expansion Options	
PCIe x4 Gen 3	1
PCIe x8 Gen 3	3
PCIe x16 Gen 3	2
PCIe OCuLink Connectors (NVMe support)	4
Connector for Intel® Integrated RAID Module	1
Riser Slot 1: Total # of Lanes	24
Riser Slot 2: Total # of Lanes	24
Riser Slot 3: Total # of Lanes	12
I/O Specifications	
# of USB Ports	5
Total # of SATA Ports	10
RAID Configuration	SW RAID 0, 1, 10, optional 5
# of Serial Ports	2
Integrated LAN	1GbE (mgmt port)
# of LAN Ports	1
Package Specifications	
Max CPU Configuration	2
Advanced Technologies	
Intel® Optane™ Memory Supported	Yes
Intel® Remote Management Module Support	Yes
Integrated BMC with IPMI	IPMI 2.0
Intel® Node Manager	Yes
Intel® Virtualization Technology for Directed I/O (VT-d)	Yes
Intel® Rapid Storage Technology enterprise	Yes
TPM Version	2.0
Riser Slot 2: Total # of Lanes	24
Riser Slot 3: Total # of Lanes	12

