

# MAGUAY eXpertServer DC

High Performance Computing (HPC) and Artificial Intelligence (AI)

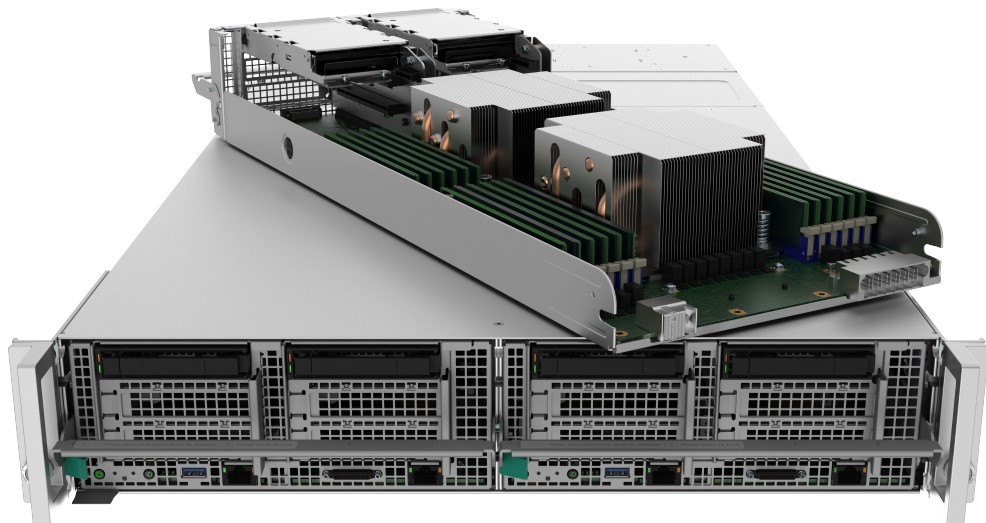
Powered by Intel® Server System S9200WK Product Family Featuring Intel® Xeon® Platinum 9200 Processors

## Density Optimized System Solution Providing Leadership Performance for HPC and AI



Intel® Server System S9200WK Data Center Block Technical Specifications

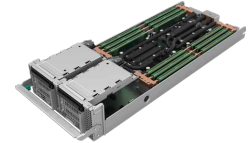
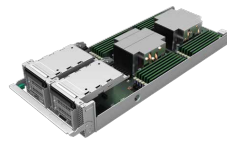
Form Factor	2U rack enclosure; Up to 4 independent warm-swap compute modules
CPU	Intel® Xeon® Platinum 9200 Processors with up to 56 cores
Memory	DDR4 2933 MT/s DIMMs, up to 96x DIMMs per DCB (24 DIMMs per compute module) @ 1DPC Supports 8GB to 128GB DIMM options, number and capacity configurable
Storage	Up to 8x M.2 SSDs per DCB with 1U compute modules; Up to 4x M.2 SSDs & 4x hot-swap U.2 NVMe SSDs with 2U Compute Modules M.2 and U.2 number and capacity configurable
Power Supply	3x hot-swap CRPS 2100W (Platinum) or 1600W (Titanium) PSUs
Ethernet	Integrated 1Gbase-T RJ45 (two ports per compute module), Optional shared 1Gbase-T RJ45 management port chassis card
Cooling	Available with high flow rate air-cooling or integrated liquid-cooling options
I/O	2 x16 Gen3 PCIe* slots per 1U compute module; 4 x16 Gen3 PCIe slots per 2U compute module for high-speed networking support
Manageability	Dedicated, consolidated Management Module
Security & Serviceability	TPM 2.0 (optional); Hot-swap/redundant fans, and PSUs; light path diagnostic LEDs




**Intel® Xeon® Platinum 9200 Processors (Data Center Block Component)**

	Cores	Base Frequency	Max Turbo Frequency	L3 Cache	# of UPI Links	Power
9282	56	2.6 GHz	3.8 GHz	77 MB	4	400W
9242	48	2.3 GHz	3.8 GHz	71.5 MB	4	350W
9222†	32	2.3 GHz	3.7 GHz	71.5 MB	4	250W
9221†	32	2.3 GHz	3.7 GHz	71.5 MB	4	250W

† This information is preliminary.


**Intel® Server System S9200WK Compute Modules (Data Center Block Component)**

Component	1U Half-Width Liquid-Cooled Compute Module	2U Half-Width Air-Cooled Compute Module	2U Half-Width Liquid-Cooled Compute Module
CPU	Intel® Xeon® Platinum 9200 Processors with up to 56 cores 400W TDP	Intel® Xeon® Platinum 9200 processors with up to 48 cores 350W TDP	
Memory	DDR4 2933 MT/s DIMMs, up to 24 DIMMs per compute module @ 1DPC; Supports 8GB to 128GB DIMM options, number and capacity configurable		
Storage	2x M.2 SATA/NVMe SSDs 80 or 110mm	2x M.2 SATA/NVMe SSDs 80 or 110mm & 2x U.2 NVMe hot-swap SSDs, optional RAID 0 & 1 support available on U.2 SSDs	
DCB Configuration	2U/4N liquid-cooled	2U/2N air-cooled	2U/2N liquid-cooled
I/O	2x Integrated 1Gbase-T RJ45 & 2 x16 Gen3 PCIe slots	2x Integrated 1Gbase-T RJ45 & 4 x16 Gen3 PCIe slots	
Debug Support	Dedicated port for VGA, serial, & 2 USB 2.0 port connectivity		
Cooling	Direct-to-Chip Liquid-Cooling for CPUs, VRs, DIMMs, and Memory VRs	High-Flow Air-Cooling	Direct-to-Chip Liquid-Cooling for CPUs, VRs, DIMMs, and Memory VRs


**Intel® Server Chassis FC2000 (Intel® Data Center Block Component)**

Component	2U Front I/O standard-width air-cooled chassis with included rail-kit	2U Front I/O standard-width liquid-cooled chassis with included rail-kit
Supported Configurations	4x 1U Half-Width Compute Modules; 2x 2U Half-Width Compute Modules; 2x 1U Half-Width Compute Modules & 1x 2U Half-Width Compute Modules	
Cooling	3x 60mm fans & 2x 80mm fans	3x 60mm fans & integrated liquid-cooling manifold (SCG06 external connectors, CGD03 internal connectors)
Power Supplies	3x hot-swap CRPS 1600W (Titanium) or 2100W (Platinum) PSUs	3x hot-swap CRPS 2100W (Platinum) PSUs
Options	Optional shared 1Gbase-T RJ45 management port chassis card	

Intel® Server System S9200WK Early Availability	
Product Code	Description
LWK2LC3U5680A	Intel® Server System S9200WK Early Availability Liquid-Cooled 56 Core Data Center Block
LWK2LC3U4880A	Intel® Server System S9200WK Early Availability Liquid-Cooled 48 Core Data Center Block
LWK2AC3P4880A	Intel® Server System S9200WK Early Availability Air-Cooled 48 Core Data Center Block

Intel® Server System S9200WK Production Components	
Product Code	Description
S9256WK1HLC <sup>3</sup>	Intel® Compute Module S9200WK 1U Half-Width Compute Node Liquid-Cooled CPU 56C
S9248WK1HLC <sup>3</sup>	Intel® Compute Module S9200WK 1U Half-Width Compute Node Liquid-Cooled CPU 48C
S9232WK1HLC <sup>3</sup>	Intel® Compute Module S9200WK 1U Half-Width Compute Node Liquid-Cooled CPU 32C
S9248WK2HLC <sup>3</sup>	Intel® Compute Module S9200WK 2U Half-Width Service Node Liquid-Cooled CPU 48C
S9232WK2HLC <sup>3</sup>	Intel® Compute Module S9200WK 2U Half-Width Service Node Liquid-Cooled CPU 32C
S9248WK2HAC <sup>3</sup>	Intel® Compute Module S9200WK 2U Half-Width Service Node Air-Cooled CPU 48C
S9232WK2HAC <sup>3</sup>	Intel® Compute Module S9200WK 2U Half-Width Service Node Air-Cooled CPU 32C
FC2HLC21W3 <sup>3</sup>	Intel® Server Chassis FC2000 Half-Width Configuration Liquid-Cooled (2100W)
FC2HAC16W3 <sup>3</sup>	Intel® Server Chassis FC2000 Half-Width Configuration Air-Cooled (1600W)

<sup>3</sup> These systems and system components can only be purchased as part of an Intel® Data Center Block or as spare components.

Intel® Server System S9200WK Spares and Accessories	
Product Code	Description
AXXCONNTDBG	Intel® Compute Module S9200WK Multi-connector debug dongle
AXXFCEMP	Intel® Server Chassis FC2000 EMP Module
AXXFC1UBLANK	Intel® Server Chassis FC2000 1U Compute Module Blank
FXXWK1URISER	Intel® Compute Module S9200WK 1U PCIe Riser Card
FXXWK2URISER	Intel® Compute Module S9200WK 2U PCIe Riser Card
FXXWKHS	Intel® Compute Module S9200WK Air-Cooled Heat Sink, Single
FXXWKLCPLP	Intel® Compute Module S9200WK Liquid-Cooling Loop
FXXWKM2HS	Intel® Compute Module S9200WK M.2 Heatsink Assembly
FXXWKLCDMCLP	Intel® Compute Module Walker Pass Liquid-Cooling Loop DIMM Clip
FXXWKLCDMTM	Intel® Compute Module S9200WK Liquid-Cooling Loop DIMM TIMM
FCXX2100CRPS	Intel® Server Chassis FC2000 2100W PSU
FCXX60MMFAN	Intel® Server Chassis FC2000 60mm Fan
FCXX80MMFAN	Intel® Server Chassis FC2000 80mm Fan
FCXXLCMANFLD	Intel® Server Chassis FC2000 liquid-cooling manifold
FCXXPDBASSMBL	Intel® Server Chassis FC2000 PDB Assembly
FCXX1USPPRT	Intel® Server Chassis FC2000 1U Internal Rail Kit
FCXXRAILKIT	Intel® Server Chassis FC2000 External Rail Kit

For an offer or more details please contact us at [sales@maguay.ro](mailto:sales@maguay.ro)

Footnotes:

1: 2U compute modules include hot-swap U.2 SSDs. M.2 storage in all compute modules does not support hot-swap.

2: Available Q4 2019

Include: Source materials and/or links for benchmarks

Cost reduction scenarios described are intended as examples of how a given Intel-based product, in the specified circumstances and configurations, may affect future costs and provide cost savings. Circumstances will vary. Intel does not guarantee any costs or cost reduction.

Copyright © 2018 Intel Corporation. All rights reserved. Intel, the Intel logo and Xeon are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.