

ASRock Rack 1U4HH-D2100 Powered by Intel® Xeon® D

Verified as an Intel® Select Solution for uCPE

Taipei, Taiwan –December 30, 2019 –ASRock Rack Inc., specialized in the field of high performance cloud computing server hardware, announced its new uCPE solution, the ASRock Rack 1U4HH-D2100. Supports for Intel® Xeon D-2123IT Series processors featuring up to 4 cores / 8 threads on its range of server barebones and motherboards.



With an optimized software stack, the ASRock Rack 1U4HH-D2123 can bring virtualized and non-virtualized, bare metal, services to small branch offices and small-to-medium-sized businesses. This uCPE solution also provides the most flexible networking ports configuration by up to 4 standard low-profile PCIe NIC cards, without proprietary NIC modules, in an ultra-compact 1U rack.

	Intel® Select Solutions for uCPE base configuration hardware	ASRock Rack verified
Processor	Intel® Xeon® D-2123IT processor, 4-Core, 2.2GHz, 60W, or higher SKU	Intel® Xeon® D-2123IT
Memory	16 GB DDR4 2133 MHz, 4 * 4 GB (16 GB Total) Minimum all 4 memory channels populated (1 DPC) to achieve 16 GB (i.e., 4 * 4 GB RDIMM)	4x DDR4 2133MHz 16GB
NICs	2 x 10 GbE integrated Ethernet ports	2x 10G Based-T ports
Intel® QAT	Recommended, not required	-

Storage	Intel® SSD Data Center S3110 256 GB 2.5" internal solid state drive (SATA or M.2)	Intel DC P4101 256GB M.2
Verified software/ firmware version		
OS	Ubuntu 16.04	
Kernel	4.13-generic x86_64	
DPDK	18.02	

The Intel® Select Solutions for uCPE reference design enables hardware vendors to have their uCPEs verified as an optimized hardware environment for SDN and NFV application. Therefore, SD-WAN and vCPE solution providers and CommSPs can confidently select the verified uCPE to deploy VNFs and deliver new services. With ASRock Rack 1U4HH-D2100 series supporting up to four standard low-profile add-in cards, a truly open network platform can be a dream come true.



1U4HH-D2100 Specification		
System	Dimensions	250*482.6*44.4mm (9.8"* 19"* 1.7")
	Motherboard	D2100D4I2-2T series
	PSU	1U Flex ATX 265W Bronze or 315W Gold
	Fan	(4) 4028
Processor	SOC	Intel® Xeon® D series processor
Memory	Qty	(4) 288-pins DIMM slots
	Supported Type	Up to 256GB ECC RDIMM or 512GB ECC LRDIMM, 2666MHz
Networking	RJ45	(2) 10GbE (1) 1GbE dedicated IPMI port
	Expansions	(3) PCIe3.0 x8 for standard low-profile NIC card (1) PCIe3.0 x4 for standard low-profile NIC card
Expansions	M.2	(1) M-key : SATA 6Gb/s or PCIe3.0 x4; Support 2242 form factor (1) M-key : SATA 6Gb/s or PCIe3.0 x4; support 2280/22110 form factor
Security	TPM	(1) 13-pin header support TPM module with LPC interface
Management	BMC	ASPEED AST2500
USB	Front	(2) USB3.1 Gen1 Type-A
Display	Front	(1) D-sub from ASPEED AST2500
Console		(1) COM header

For more information on ASRock Rack's complete range of Intel® Xeon D processor-based servers and workstations, please visit <http://www.asrockrack.com/minisite/mehlow/>.