OpenEDGE Platform
Wiwynn EP100G2 Series

The Best All-in-one Platform for 5G CU/DU/5GC/MEC and Private 5G Environment.

New Intel® Processors with Enhanced Performance

Wiwynn® EP100G2, a next-generation 5G server of EP100, enables the more powerful 5G RAN solution. The server sled design features the 4th Gen Intel® Xeon® Scalable Processor with increased core count, DDR5, PCI-e Gen 5, and integrated accelerators. The built-in accelerators improve overall performance by making better deployment of CPU core resources, resulting in more effective utilization and power efficiency. Additionally, the CPU's maximal TDP is upgraded up to 225W in one sled, which enables the server to operate to its maximum computing capacity.

Flexible 1U/2U Sled Designs for Versatile Applications

EP100G2 leverages the former generation's performance of 1U sleds, expanding the system's versatility by adding brand-new 2U server sleds. The new 2U server sled features high-density DUs for increased RU connections, while adding more GPU cards to facilitate far-edge applications. Its 3U chassis can accommodate five new 1U server sleds, while it can be replaced with one or two 2U sleds for higher performance needs. The configurable flexibility not only provides easy serviceability but also maximizes the computing capacity and adaptable deployment for different application scenarios.

Intel® AVX/QAT for Faster 5G/Edge Applications

EP100G2 showcases the latest Intel® AVX and QAT embedded in the new Intel® Processor. The Intel® Advanced Vector Extensions (Intel® AVX), deployed 42 New 5G ISA instructions for 5G vRAN workloads, improves signal and media processing. The Intel® QuickAssist Technology (Intel®QAT), a newly built-in accelerator, makes the best use of the processor cores, providing expedited cryptography, key protection and data compression.

Short-Depth Chassis for Diverse Edge Locations

EP100G2 deploys a 3U short-depth chassis, which is perfect for service providers to deploy far-edge applications on existing facilities. And this solution can further reduce infrastructure complexity and meet environmental constraints.

Chassis Controller for Easy Management

EP100G2 delivers easy management for edge sites. To the chassis management, EP100G2 requires only one 1Gb/s RJ45 cable on the OpenRMC to manage all the server sleds. With two 10G SFP+ ports on the system's front panel, we can manage the whole server cluster utilizing just one link to cascade numerous systems.

Wiwynn is a fast-growing cloud infrastructure provider that develops high-density computing and storage products, plus rack solutions for leading data centers.

Node Specification

Model : Wiwynn EP100G2 Series

Model Name	EP100G2	
Hardware	1U Sleds	2U Sleds
Form Factor	1U, Half Width	2U, Half Width
Processor	4th Gen Intel® Xeon® Scalable Processors, up to 205W TDP	4th Gen Intel® Xeon® Scalable Processors, up to 225W TDP
Processor Sockets	One	
Chipsets	Intel® Emmitsburg PCH · TPM 2.0	
Memory	Eight DIMM slots; DDR5 up to 4800 MT/s	

Storage and I/O

	1U Sleds		2U Sleds	
Storage	Two M.2 NVMe SSD module slots + Two 2.5" U.2 Hot-plug drives	Two M.2 NVMe SSD module slots	Two M.2 NVMe SSD module slots + Four 2.5" U.2 Hot-plug drives	
Expansion Slots	One FHHL slot (PCIe 5.0 x16)	One FHHL slot (PCIe 5.0 x16) + One HHHL slot (PCIe 4.0 x8)	Two FHHL slot (PCIe 5.0 x16)	One FHHL slot (PCIe 5.0 x16) + Two FHHL slot (PCIe 5.0 x8)
Networking (NIC)	OCP 3.0 PCIe 5.0 x16			
Remote Management	IPMI v2.0 Compliant; Redfish® API			

Physical Specifications

	1U Sleds	2U Sleds
Dimensions	41 (H) x 215 (W) x 421.8 (D) mm	82 (H) x 215 (W) x 421.8 (D) mm
Weight	3.5kg	5.42kg
Fan	Four dual rotor fans	Two dual rotor fans

OS

Support List	RedHat Enterprise Linux 8.x, CentOS 7.9, Ubuntu 20.04

Chassis Specification

Form Factor	3U	
PSU	AC 2000W CRPS AC or DC (±48V) 1+1 Redundant Hot-swappable PSU	
Dimensions	130.6 (H) x 440 (W) x 430 (D) mm	
Weight	25Kg	
Management Module	· One 1Gb/s RJ45 cable · Two 10G SFP+ ports	
Environmental	Operating conditions · NEBS Level 3 compliant (GR-63, GR-1089)	EMC · FCC CFR47 15 (class A), CISPR 22/32 (class A) CISPR 24 · NEBS Level 3 compliant
	EMC · FCC CFR47 15 (class A), CISPR 22/32 (class A) CISPR 24 · NEBS Level 3 compliant	Seismic tolerance · NEBS Level 3 compliant
	Safety · SR-3580 · IEC 62368-1:2014 · NEBS Level 3 compliant (electrical safety, grounding and bonding)	Acoustic noise · NEBS Level 3 compliant
		Fire resistance · NEBS Level 3 compliant

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