

VPC-9000 Series

Server grade HPC with
Dual Intel® Xeon
scalable processor



Cascade Lake

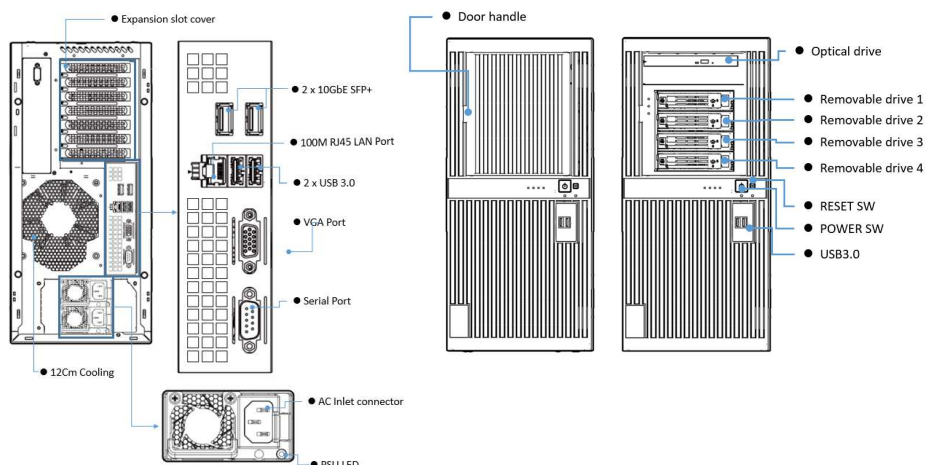
DUAL PROCESSOR
INTEL® 2ND GEN. XEON GOLD
OR
INTEL® 2ND GEN. XEON SILVER

Features

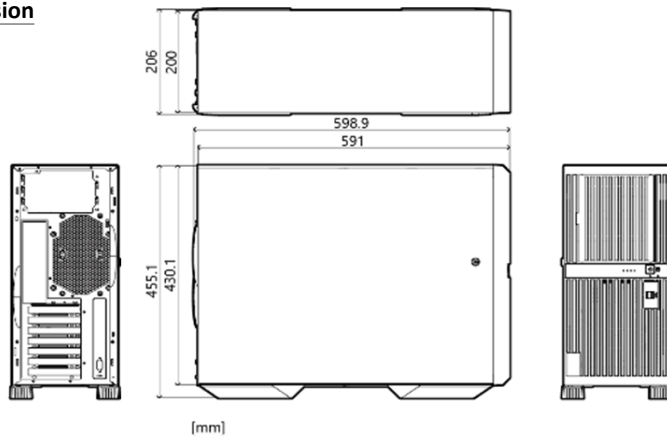
- Intel® Xeon® Scalable Processors for highest server performance and improved power efficiency
- 4 x SATAIII Storage removable bay supports hot swap
- Supports 2 x PCIe Gen3 x16 slots + 3 x PCIe Gen3 x8 slots
- Supports one NGFF (M.2) with PCIe Gen3 x4 / SATA co-design
- Onboard Baseboard Management Controller for system management and IPMI control
- Embedded components for long life

Optional Configuration

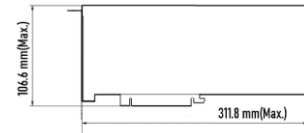
- Dual Xeon Processor : Silver 4210 Gold 6230
- Memory: 32GB 64GB 128GB 256GB
- Storage: None 2TB HDD 4TB HDD 256GB SSD 512GB SSD
- OS: None Windows 10 IoT Enterprise 2019 LTSC 64-bit
 Windows Server IoT 2019 Standard



Dimension



Mountable board size



System Specifications

System	Main Processor	Dual Intel® Xeon® Gold 6230 (27.5MB Cache, up to 3.90 GHz / 20 Cores) Dual Intel® Xeon® Silver 4210 (13.75MB Cache, up to 3.20 GHz / 10 Cores)
	CHIPSET	Intel® C622 with Cascade Lake-SP
	BIOS	Insyde UEFI BIOS
	Memory	6 x memory channels per CPU (1 x DIMM per channel) 12 x DIMM DDR4-2666/2933 RDIMM SRx4, up to 256GB Configuration : -32GB (16x2) -64GB (16x4) -128GB (16 x8) -256GB(32x8)
	Storage	Removable drive bay x 4 (Hot-swappable), Supports 2.5" or 3.5" storage device Select M.2 NVMe 256GB or 2TB x1 using onboard M.2 Software RAID0,1,5,10 for Intel RSTe
	SATA Interface	8x SATA 6Gb/s ports (by 2 x mini-SAS HD) 2x SATA 6Gb/s ports (by 2 x SATA 7-pin)
	Ethernet	Intel PCH (Lewisburg) Integrated 10GbE LAN controller 2 x 10GbE SFP+ (Rear panel)
	Graphic	Aspeed AST2500 Advanced PCIe Graphics & Remote Management Processor PCIe VGA/2D Controller 1920x1200@60Hz 32bpp
	Interface	1 x External VGA port (Rear panel) 1 x External Serial port(Rear panel) 1 x 10/100 M RJ45 to BMC management (Rear panel) 2x External USB 3.0 type A connector (front panel) + 2x USB3.0 double-stack type A (rear panel)
	Expansion Interface	2 x PCI Express 3.0 (x16) slots 3 x PCI Express 3.0 (x8) slots 6 x SFF-8643 each supports PCI Express 3.0 (x4) 1 x NGFF (M.2) M-Key (2280, 2242) supports SATA/PCIe x4
	Security	1 x TPM 2.0 onboard
	Mechanical	Mechanical
OS supported	OS supported	Windows 10 IoT Enterprise 2019 LTSC 64bit Windows Server IoT 2019 Std
Power	Power	CRPS(Common Redundant Power Supply)1600W 90-264 Vac
Environmental	Operation Temperature	5 to 40°C
	Storage Temperature	-20 to 60°C
	Humidity	20 - 80%RH (Non-condensing)
	Altitude	5000M (16,404 ft)
	Line-noise resistance	Power Line : ±2kV (IEC61000-4-4 Level 3 、 EN61000-4-4 Level 3) Signal Line : ±1kV (IEC61000-4-4 Level 3 、 EN61000-4-4 Level 3) Contact Discharge : ±4kV (IEC61000-4-2 Level 2 、 EN61000-4-2 Level 2) Aerial Discharge : ±8kV (IEC61000-4-2 Level 3 、 EN61000-4-2 Level 3)
	Vibration	· HDD(Operating): 10 ~ 50Hz/ 0.5G, 25min each X · Y · Z direction (JIS C 60068-2-6 、 IEC 60068-2-6) · HDD(Non-operating/ SSD): 10 ~ 57Hz/ 0.075mm(semi-amplitude) 、 57 ~ 150Hz/ 1.0G each 40min X · Y · Z direction (JIS C 60068-2-6 、 IEC 60068-2-6)
	Shock	10G, half-sine shock for 11 ms in X, Y, and X directions (JIS C 60068-2-27 、 IEC 60068-2-27)
	Certifications	VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A)

Ordering Guide

● VPC-9000-GU2xxxxxx	Base model with Dual Xeon® Gold 6230 + Storage kit + CRPS(1600W)
● VPC-9000-GU1xxxxxx	Base model with Dual Xeon® Silver 4210 + Storage kit + CRPS(1600W)