

FA-PC  
VPC Series  
VPC-5000-G Series



\* Specifications, color and design of the products are subject to change without notice.

Features

**High performance FA computer with Xeon processor compatible**  
Compatible with Intel® Xeon® E-2200 Processors or 9th generation Intel® Core® Processors. Up to 64GB of ECC memory can be installed. Applicable for transportation / social infrastructure / medical equipment / security / amusement and other fields requiring advanced multiple processing.

**Highly reliable and long life components based on 24-hour operation**  
The product is designed for high reliability and longevity with the know-how of the Box computer®, which is synonymous with built-in PCs, in various places. Hot-swappable hardware RAID configurations enable a user to replace storage even when the system is running. It can be used with confidence in systems that require high availability.

**Support Windows 10 IoT Enterprise LTSC and Windows Server IoT**  
The LTSC (Long Term Servicing Channel) version of Windows is installed to discourage unnecessary restarts or unwanted feature updates for operational applications. The product has a lockdown function that is useful for the developing secure dedicated terminals. A user can select a language from Japanese, English, Chinese, or Korean in Windows 10 IoT Enterprise 2019 LTSC, and can decide to use Windows Server IoT 2019, which is suitable for edge servers that require server-class multiple processing and network performance.

**Long-term product availability and maintenance**  
In addition to longer-term product availability and maintenance services, a long-term on-site maintenance service is provided (for a fee). It reduces the life cycle costs for operation checks or device alterations/improvements each time PC model changes.

This product is a desktop/rack-mountable type FA computer with high reliability, long life components, availability and maintainability base on 24-hour operation. The Intel® C246 chipset for server and workstation applications are adopted. Intel® Xeon® E-2200 Processors or 9th generation Intel® Core® Processors with up to 64GB of ECC memory can be installed. The product offers up to four hot-swappable hardware RAID configurations.

Intel, Intel Atom, Intel Core and Celeron are registered trademarks of Intel Corporation. MS, Microsoft and Windows are trademarks of Microsoft Corporation. Other brand and product names are trademarks of their respective holder.

Specifications

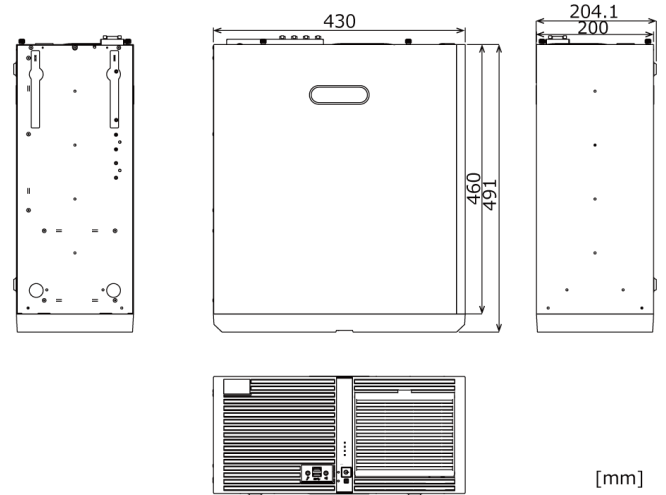
Function specification

Item	Description	
CPU [Selection]	Intel® Xeon® E-2278GE / E-2226GE / Core™ i3 9100E / Celeron® G4900	
Chipset	Intel® C246	
BIOS	AMI BIOS	
Memory [Selection]	64GB max (DDR4-2666) ECC SDRAM 8GB : 8GB x 1, 16GB : 8GB x 2, 32GB : 16GB x 2, 64GB : 32GB x 2	
Storage [Selection]	Removable drive, SATA III 3.5inch bay x 4 (2.5-inch storage can be installed) 3.5inch HDD 2TB, 2.5inch SSD 256GB, 512GB	
Optical drive	DVD super multi drive	
Interface	Display	Analog RGB x 1, HDMI x 1, DisplayPort x 1, Outputs with three displays (HDMI, DisplayPort : 4K output, Analog RGB : 1080p)
	USB	Type-A connector Front : USB3.1 Gen 1(USB3.0) x 2 Rear : USB3.1 Gen 1(USB3.0) x 4, USB2.0 x 2
	Audio	Audio compliant Front : Line output x 1, Mic input x 1, Rear : Line output x 1, Line input x 1, Mic input x 1
	Serial	9pin D-SUB connector [male] RS-232C / 422A / 485 x 1, RS-232C x 4
	LAN	2ports (RJ-45 connector) 1000BASE-T / 100BASE-TX / 10BASE-T, Wake On LAN
Digital I/O	Rear : 2 x Outputs, 4 x Inputs	
RAS function	WDT : 1sec - 255sec (Resetting operation by time up) Remote reset/Remote power on External input signal Monitoring function (Fan rotation, CPU temperature, Voltage data reading)	
Extended slot	PCI Express(x16) slot x 1, PCI Express(x4) slot x 3, PCI slot x 3	
Security (TPM)	TCG TPM2.0	
OS *1	None Windows 10 IoT Enterprise 2019 LTSC 64bit (Japanese / English / Chinese / Korean)	
Supply voltage	100 - 240VAC	
Physical dimensions (mm)	430(W) x 491(D) x 204.2(H) (No protrusions)	
Weight	About 14Kg (with HDD x 1 and optical drive x 1. The weight may vary depending on configuration.)	

**Ambient specification**

Item	Description
Operating temperature	5 - 40°C
Non-operating ambient temperature	-20 - 60°C
Operating humidity	20 - 80%RH (No condensation)
Non-operating ambient humidity	20 - 80%RH (No condensation)
Floating dust particles	Not to be excessive
Corrosive gases	None
Line-noise resistance	Static electricity resistance Contact discharge / ±4kV (EN61000-4-2 Level 2, IEC1000-4-2 Level 2), Atmospheric discharge / ±8kV (EN61000-4-2 Level 3, IEC1000-4-2 Level 3)
	Line noise AC line / 2kV, Signal line /1kV (EN61000-4-4 Level 3, IEC1000-4-4 Level 3)
Vibration resistance	Sweep resistance When the HDD is on : 10 - 50Hz/ 0.5G 25 min. each in x, y, and z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant) When the SSD is on : 10 - 57Hz/semi-amplitude 0.075mm 57 - 150Hz/1.0G 40 min. each in x, y, and z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant)
	Impact resistance 10G, half-sine shock for 11ms in X, Y, and Z directions (JIS C0041 compliant, IEC68-2-27 compliant)
Grounding	Class D grounding, SG-FG / continuity
Standard	VCCI Class A, FCC Class A

**Horizontal installation**



**Option Mirror card specification**

Item	Description
Number of connected drives	2
RAID level	1
Storage capacity	Max. 2TB
Cache memory size	1MB
Host interface	S-ATA (Max. data transfer rate : 6Gbps)
Drive interface	S-ATA (Max. data transfer rate : 6Gbps)
Range of power-supply voltage	4.75VDC - 5.25VDC
Current consumption	1.1A - 1.5A
Physical dimensions (mm)	96(L) × 98.2(W)
Weight	51g (Max)

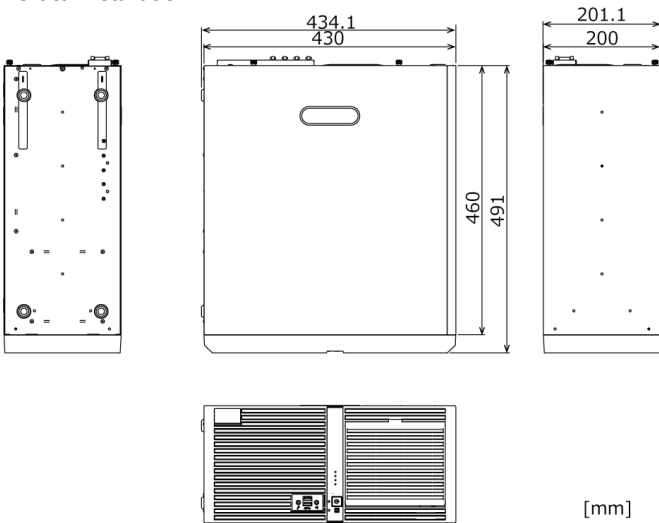
**Packing List**

- Product [VPC-5000 Series] ...1
- I/O Terminal Connector...2
- Rubber Foot...4
- Countersunk screw (inch)...8 \*1
- Countersunk screw (millimeter)...6 \*1
- Name Plate...1
- Product Guide ... 1
- Warranty Certificate ... 1
- IPC Precaution List...1
- Serial Number Label ...1
- Driver Media...1

\*1 Configuration differs depending on the selection.

**Physical Dimensions**

**Vertical installation**



**Supported OS**

- Windows 10 IoT Enterprise 2019 LTSC 64bit (Japanese / English / Chinese / Korean)
- Windows Server IoT 2019 Standard (Expected to be supportable from January 2021)

## BTO Custom Model (BTO Menu)

<b>CPU</b>	Xeon® E-2278GE	Xeon® E-2226GE	Core™ i3 9100E	Celeron® G4900
<b>Memory</b>	8GB	16GB	32GB	64GB
<b>Storage1</b>	None	2TB HDD	256GB SSD	512GB SSD
<b>Storage2</b>	None	2TB HDD	256GB SSD	512GB SSD
<b>Storage3</b>	None	2TB HDD	256GB SSD	512GB SSD
<b>Storage4</b>	None	2TB HDD	256GB SSD	512GB SSD
<b>Power</b>	500W			
<b>Optics System Drive</b>	None	DVD Super Multi Drive		
<b>RAID</b>	None	Hardware RAID (RAID 1)	Software RAID (RAID 1)	
<b>OS</b>	None	Windows 10 IoT Enterprise 2019 LTSC 64bit (Japanese / English / Chinese / Korean)		

- \* The contents in this document are subject to change without notice.
- \* Visit the CONTEC website to check the latest details.
- \* Visit the CONTEC website to check the latest OS.
- \* The information in the data sheets is as of September 2020.