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.

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Specifications

Function specification

| | ltem | Description | |
|--------------------------|-------------|---|--|
| CPU [Selection] Chipset | | Intel® Xeon® E-2278GE / E-2226GE / Core™ i3 9100E / | |
| | | Celeron® G4900 | |
| | | 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 | |
| | | Removable drive, SATA III 3.5inch bay x 4 | |
| Storage [Selection] | | (2.5-inch storage can be installed) | |
| | | 3.5inch HDD 2TB, 2.5inch SSD 256GB, 512GB | |
| Optical driv | re | DVD super multi drive | |
| Interface | D'a da | Analog RGB x 1, HDMI x 1, DisplayPort x 1, Outputs with three displays | |
| | Display | (HDMI, DisplayPort: 4K output, Analog RGB: 1080p) | |
| | | Type-A connector | |
| | USB | 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 | |
| | | WDT: 1sec - 255sec (Resetting operation by time up) | |
| RAS function | on | Remote reset/Remote power on External input signal | |
| | | Monitoring function (Fan rotation, CPU temperature, Voltage data reading) | |
| Extended sl | | PCI Express(x16) slot x 1, PCI Express(x4) slot x 3, PCI slot x 3 | |
| Security (TPM) | | TCGTPM2.0 | |
| 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 \times 1 and optical drive \times 1. The weight may vary depending on | |
| | | configuration.) | |

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Ambient specification

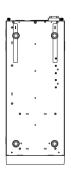
| , arribient spe | Item | Description | | |
|--------------------------|-------------------------------|--|--|--|
| Operating temperat | | 5 - 40°C | | |
| Non-operating amb | | -20 - 60°C | | |
| Operating humidity | ient temperature | 20 - 80%RH (No condensation) | | |
| Non-operating amb | ient humidity | 20 - 80%RH (No condensation) | | |
| Floating dust particle | | Not to be excessive | | |
| Corrosive gases | 2 | None | | |
| Corrosive gases | | Contact discharge / ±4kV (EN61000-4-2 Level 2, IEC1000-4-2 Level 2), | | |
| Line-noise resistance | Static electricity resistance | 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/ 05G 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 | | |

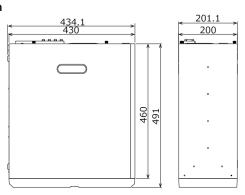
Option Mirror card specification

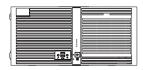
| Option will of card specification | | | | | |
|-----------------------------------|---|--|--|--|--|
| Item | Description | | | | |
| Number of connected drives | 2 | | | | |
| RAID level | 1 | | | | |
| Storage capacity | Max. 2TB | | | | |
| Cache memory size | 1MB | | | | |
| Host interface | S-ATA (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) | | | | |

Physical Dimensions

Vertical installation

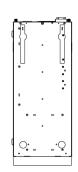


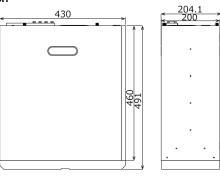


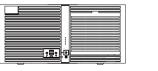


[mm]

Horizontal installation







[mm]

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.

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)

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RAID

os

BTO Custom Model (BTO Menu)

| CPU | Xeon® E-2278GE | Xeon® E-2226GE | Core™ i3 9100E | Celeron® G4900 |
|---------------------|----------------|-----------------------|----------------|----------------|
| | | | | |
| Memory | 8GB | 16GB | 32GB | 64GB |
| | | | | |
| Storage1 | None | 2TB HDD | 256GB SSD | 512GB SSD |
| | | | | |
| Storage2 | None | 2TB HDD | 256GB SSD | 512GB SSD |
| | | | | |
| Storage3 | None | 2TB HDD | 256GB SSD | 512GB SSD |
| | | | | |
| Storage4 | None | 2TB HDD | 256GB SSD | 512GB SSD |
| | | | | |
| Power | 500W | | | |
| | | _ | _ | |
| Optics System Drive | None | DVD Super Multi Drive | | |
| | | 1 | 1 | |
| | | | | 1 |

Software RAID (RAID 1)

Hardware RAID (RAID 1)

Windows 10 IoT Enterprise 2019 LTSC 64bit

(Japanese / English / Chinese / Korean)

None

None

■ VPC-5000-G Series ■

^{*} 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.