

FA-PC
VPC Series
VPC-3200 Series



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

Features

- **Compatible with Intel® Core™ processor series Raptor Lake**
The product is equipped with the 12th-generation Intel® Celeron processor and 13th-generation Intel® Core™ processor and greatly realizes lower-power consumption while ensuring fine performance of operation tasks and drawing. Adopting embedded-type CPU contributes to a stable supply.
- **CPU built-in high-performance graphics**
Full HD video can be smoothly played with the Intel® UHD Graphics 770/730/710. It also supports full HD output of the three-screen with the DVI-I, DisplayPort and HDMI.
- **Supports mirroring (RAID1)**
Mirroring (hardware option) can be configured to suit the application and ensure the system to be redundant.
- **Adopt removable storage**
The product adopts front accessible 3.5-inch SATA storage, and also supports RAID function such as mirroring.
- **Rich variety of interfaces to expand your peripherals freely**
The product has a variety of extended interface such as DVI-I, HDMI, DisplayPort, 2.5GBASE-T x2, 1000BASE-T x1 or 2, USB 3.2 Gen2(USB 3.1) x 4, USB 3.2 Gen1(USB 3.0) x 4, serial ports x 5(RS-232C/RS-422A/RS-485 x 1, RS-232C x 4), and Audio.
- **The identical dimensions enable easy replacement with the VPC-3100 series**
In order to replace the system with ease, this product has the same physical dimensions as the VPC-3100 series.

Supported OS

- Windows 10 IoT Enterprise 2021 LTSC 64bit (Japanese / English / Chinese / Korean)
- Windows 11 IoT Enterprise LTSC 2024 (Japanese / English / Chinese / Korean)

This product is a BTO industrial computer that is equipped with an 12th generation Intel® Celeron processor and 13th generation Intel® Core™ processor series.

The Intel® Q670 chipset with DDR5 memory (16GB - 128GB) provides advanced computing and graphical performance.

The product features a variety of interfaces such as one each port of DVI-I, HDMI, DisplayPort, four USB 3.2 Gen2(USB 3.1) ports (rear : 4), four USB 3.2 Gen1 ports (front : 2, rear : 2), five serial ports (RS-232C/422A/485×1, RS-232C×4), two 2.5GBASE-T and one to two 1000BASE-T ports, which can be used in a wide range of embedded applications such as general-purpose PC OS-based controllers and information terminals.

- * The contents in this document are subject to change without notice.
- * Visit the CONTEC website to check the latest details in the document.
- * The information in the data sheets is as of February, 2026.

Specifications

Function specification < 1 / 2 >

Item		Description
CPU [Selection]		Intel® Celeron® Processor G6900E 3GHz / 46W Intel® Core™ i3-13100E Processor 4.4GHz (Max.) / 60W Intel® Core™ i5-13500E Processor 4.6GHz (Max.) / 65W Intel® Core™ i7-13700E Processor 5.1GHz (Max.) / 65W
Chip set		Intel® Q670
BIOS		BIOS (mfd. by AMI)
Memory [Selection]		Max 128GB, U-DIMM Socket x 4, DDR5 SDRAM 16GB: 16GB DDR5 U-DIMM x 1 32GB: 16GB DDR5 U-DIMM x 2 64GB: 16GB DDR5 U-DIMM x 4 128GB: 32GB DDR5 U-DIMM x 4
Graphic		
Controller		Intel® UHD Graphics 710 (Celeron® type) Intel® UHD Graphics 730 (Core™ i3 type) Intel® UHD Graphics 770 (Core™ i5, Core™ i7 type)
System resolution	HDMI	4096 x 2160 @60Hz Max
	Display Port	4096 x 2160 @60Hz Max
	DVI-I	1920 x 1200 @60Hz Max
Storage [Selection] *2		- Removable drive, SATAIII 3.5-inch x 2 SATAIII 3.5-inch HDD 2TB (Max. 2pcs) SATAIII 3.5-inch HDD 4TB (Max. 2pcs) SATAIII 2.5-inch SSD 256GB (Max. 2pcs) SATAIII 2.5-inch SSD 512GB (Max. 2pcs) SATAIII 2.5-inch SSD 1TB (Max. 2pcs) SATAIII 2.5-inch SSD 2TB (Max. 2pcs) Hardware RAID (Mirroring) - M.2 slot x 1 NVMe 2280 SSD 256GB (Max. 1pc) NVMe 2280 SSD 512GB (Max. 1pcs) NVMe 2280 SSD 1TB (Max. 1pcs) NVMe 2280 SSD 2TB (Max. 1pcs)
Optical drive [Selection]		None DVD Super Multi drive
Interface	External display	DVI-I x 1, HDMI x 1, DisplayPort x 1, Supports three displays
	Audio	HD Audio compliant, 3.5p stereo mini jack, LINE OUT x 1, LINE IN x 1, MIC IN x 1
	LAN	3 ports (RJ-45 connector) LAN A : 1000BASE-T/100BASE-TX/10BASE-T, Wake On LAN LAN B/C : 2500BASE-T/1000BASE-T/100BASE-TX/10BASE-T, Wake On LAN
	USB	A-Type connector Front : USB 3.2 Gen1(USB3.0) x 2 ports, Inside : USB2.0 x 2 Rear : USB 3.2 Gen2(USB3.1) x 4 ports, USB 3.2 Gen1(USB3.0) x 2 ports
	Serial	9pin D-SUB connector(male) x 5 (RS-232C/422A/485 x 1, RS-232C x 4) Baud rate : 50 - 115,200bps
	Digital I/O	Front: LED outputs x 2 Rear: outputs x 2, inputs x 4
	POST	BIOS POST code display 7-segment LED

Function specification < 2 / 2 >

Item	Description
LAN port expansion [Selection]	1000BASE-T/100BASE-TX/10BASE-T *Mounted in PCI-Express (x4) expansion slot D
Expansion slot	PCI-Express (x16) slot x 1 PCI-Express (x4) slot x 2 *One slot for additional LAN port PCI slot x 1 Usable board dimension PCt: 176mm(L) x 107mm(H) PCI-Express: 176mm(L) x 112mm(H)
Security (TPM)	TCG TPM2.0
Hardware monitoring	Monitoring CPU temperature, card temperature, power voltage
RTC/CMOS	The real-time clock is accurate within ± 3 minutes (at 25°C) per month, Lithium backup battery life : 7 years or more
Power Management	Power management setup via BIOS, Power On by Ring / Wake On LAN
Watch Dog Timer	Software programmable, 255 level (1sec - 255 sec), Causes a reset upon time-out.
Supportable OS [Selection]	None Windows 10 IoT Enterprise 2021 LTSC 64bit (Japanese / English / Chinese / Korean) Windows 11 IoT Enterprise LTSC 2024 (Japanese / English / Chinese / Korean)
Power supply	400W ATX power supply (50/60Hz Input auto switching)
Rated input voltage	100 - 240V/AC
Range of input voltage	90 - 264V/AC
Power consumption	100 - 240V/AC, 3.8 - 1.6A (Max.)
External device power supply capacity	- USB I/F +5V: 5.6A - PCI-Express 3.0(x16) slot: +3.3V: 3A +12V: 5.5A - PCI slot: +3.3V: 2A +5V: 2A +12V: 0.5A - PCI-Express 3.0(x4) slot 2-slot total +3.3V: 6A +12V: 2.1A Capacity per slot +3.3V: 3A +12V: 2.1A
Physical dimensions (mm)	165.5(W) x 470.1(D) x 370(H) (No protrusions)
Weight *1	About 120kg (Excluding attachment fittings)

*1 The weight (which does not include accessories) may vary depending on the product configuration.

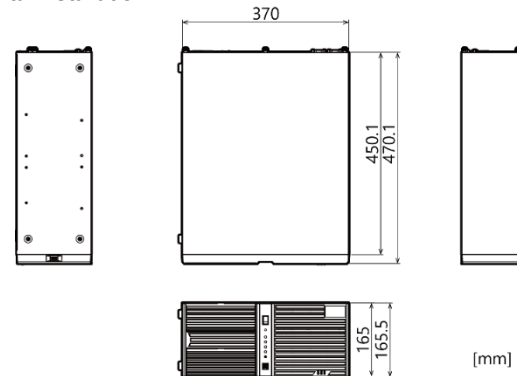
*2 If you select NVMe SSD, the selected OS is installed on the NVMe SSD.

Environment Requirements

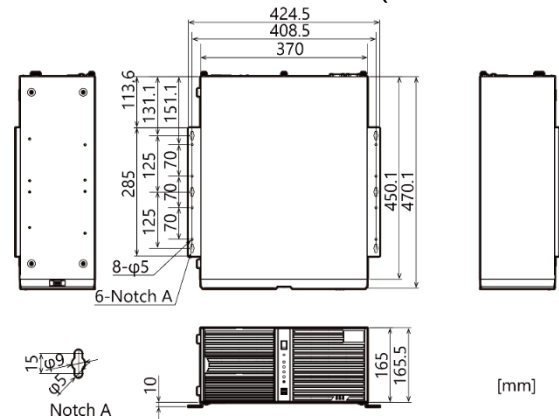
Item		Description
Operating ambient temperature		5 - 40°C
Non-operating ambient temperature		-20 - +60°C
Operating ambient humidity		20 - 80%RH (No condensation)
Non-operating ambient humidity		20 - 80%RH (No condensation)
Floating dust particles		Not to be excessive
Corrosive gases		None
Line-noise resistance	Line noise	AC line: $\pm 2kV$ (IEC61000-4-4 Level 3, EN61000-4-4 Level 3) Signal line: $\pm 1kV$ (IEC61000-4-4 Level 3, EN61000-4-4 Level 3)
	Static electricity resistance	Contact discharge/ $\pm 4kV$ (IEC61000-4-2 Level 2, EN61000-4-2 Level 2) Atmospheric discharge/ $\pm 8kV$ (IEC61000-4-2 Level 3, EN61000-4-2 Level 3)
Vibration resistance	Sweep resistance	- HDD installed (on power) 10 - 50Hz / 0.5G 25 min. each in x, y, and z directions (JIS C60068-2-6 compliant, IEC60068-2-6 compliant) - SSD installed (on power) 10 - 57Hz / semi-amplitude: 0.075 mm, 57 - 150Hz / 1.0G 40 min. each in x, y, and z directions (JIS C60068-2-6 compliant, IEC60068-2-6 compliant)
Shock resistance		10G, half-sine shock for 11 ms in x, y, and z directions (JIS C60068-2-27-compliant, IEC60068-2-27-compliant)
Grounding		Class D grounding, SG-FG / continuity
Standard		VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, Low Voltage Directive, RoHS Directive), UKCA

Physical Dimensions

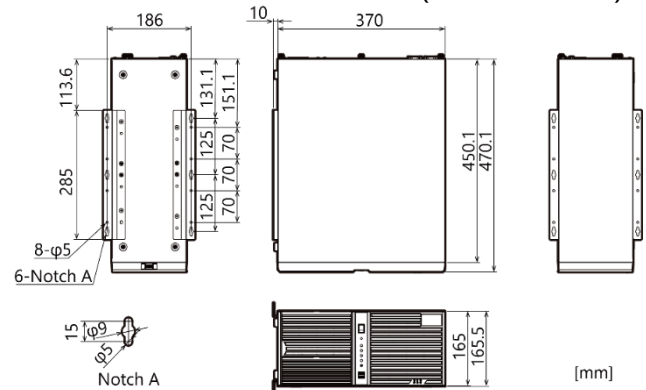
Horizontal Installation



With the Brackets for Horizontal Orientation (Horizontal Installation)



With the Brackets for Horizontal Orientation (Vertical Installation)



Included Items

- Product...1
- Brackets...2
- AC Cable...1
- DVI-Analog RGB Conversion Adapter...1
- I/O Terminal Connector...1
- Cable Tie...3 types (3 ties respectively)
- Rubber Foot...4
- Countersunk Screw (#6-32 x 4)...1 set
- Countersunk Screw (M3 x 4)...1 set
- Truss-Head Screw (M3 x 5)...8
- Truss-Head Screw (M4 x 6)...14
- Keyboard...1 *1
- Mouse...1 *1
- Product Guide...1

*1 This may not be included depending on the product configuration.

Replacement Parts for Maintenance

Parts name	Type	Description
Hard disk	HDD-2TS-3	2.5 inch SATA HDD 2TB
	HDD-2TS-3R	2.5 inch SATA HDD 2TB (RAID support)
	HDD-4TS-3	3.5 inch SATA HDD 4TB
	HDD-4TS-3R	3.5 inch SATA HDD 4TB (RAID support)
Fan	VPC-3000-FAN	Front chassis fan
Fan Filter	VPC-3000-FILTER	Front fan filter

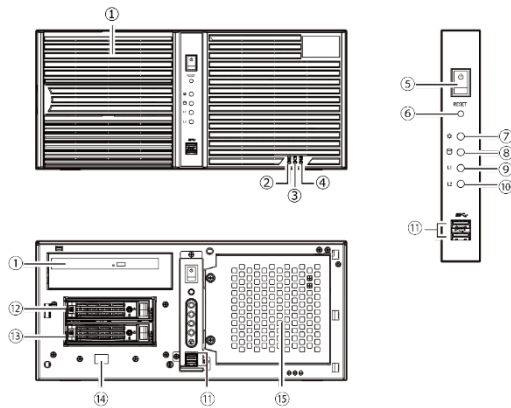
CAUTION

If a product other than our replacement parts one is used, the normal operation may be impaired or the functions may be limited.

Visit the CONTEC website for the latest replacement parts for maintenance.

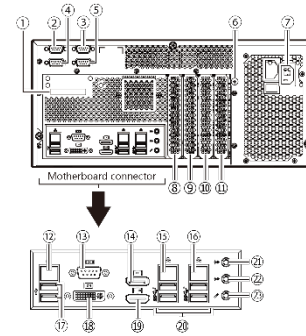
Component Name

Front View



No.	Name	Function
1	Optical drive [selection]	DVD super multi drive
2	Access LED	LED status indicator when hardware RAID is selected.
3	Drive 1 LED	SATA device 1 access LED when hardware RAID is selected.
4	Drive 2 LED	SATA device 2 access LED when hardware RAID is selected.
5	POWER SW	Power switch
6	RESET SW	System reset switch
7	POWER LED	Power LED
8	HDD LED	SATA device LED
9	USER LED 1	User LED 1 (This LED can light up with the hardware RAID monitoring tool* or by command of your software.)
10	USER LED 2	User LED 2 (This LED can light up with the hardware RAID monitoring tool* or by command of your software.)
11	USB3.0	USB 3.2 Gen1(USB 3.0) (Type-A connector) 2 ports
12	Removable drive 1	SATAIII, 2.5 inch / 3.5 inch removable drive 1
13	Removable drive 2	SATAIII, 2.5 inch / 3.5 inch removable drive 2
14	BIOS POST LED	BIOS POST code display
15	Cooling fan	Cooling fan for air intake

Rear View



No.	Name	Function
1	JDIO1, JDIO2	Digital I/O (Input x 4, output x 2)
2	COM B	RS-232C (9pin D-SUB Connector (male)) 1 port
3	COM C	RS-232C (9pin D-SUB Connector (male)) 1 port
4	COM D	RS-232C (9pin D-SUB Connector (male)) 1 port
5	COM E	RS-232C (9pin D-SUB Connector (male)) 1 port
6	FG	Terminal for frame ground
7	AC INLET	100 - 240VAC power input connector
8	Expansion slot A	PCI Express (x16) Gen4 slot x 1
9	Expansion slot B	PCI slot x 1
10	Expansion slot C	PCI Express (x4) Gen3 slot x 1
11	Expansion slot D	PCI Express (x4) Gen3 slot x 1
12	LAN A	1000BASE-T/100BASE-TX/10BASE-T (RJ-45 Connector): Ethernet x 1
13	COM A	RS-232C/RS-422A/RS-485 (9pin D-SUB Connector (male)) 1 port
14	DisplayPort	DisplayPort x 1 (20pin, female)
15	LAN B	2500BASE-T/1000BASE-TX/100BASE-TX/10BASE-T (RJ-45 Connector): Ethernet x 1
16	LAN C	2500BASE-T/1000BASE-TX/100BASE-TX/10BASE-T (RJ-45 Connector): Ethernet x 1
17	USB3.2 Gen1	USB 3.2 Gen1(USB 3.0) (Type-A Connector) 2 port
18	DVI-I	DVI-I x 1 (25pin, female)
19	HDMI	HDMI x 1 (19pin, female)
20	USB3.2 Gen2	USB 3.2 Gen2(USB 3.1) (Type-A Connector) 4 port
21	LINE IN	Line input (3.5p PHONE JACK)
22	LINE OUT	Line output (3.5p PHONE JACK)
23	MIC INPUT	Mic input (3.5p PHONE JACK)

Commodity Model

VPC-3200Type Rule

Model Name V32J

Type Name **X** **X** **X** **X** **X** **X** **X** **X** **X** **X** **X** **X** **X** **X**

No. **1** **2** **3** **4** **5** **6** **7** **8** **9** **10** **11** **12** **13** **14** **15**

No.	Item	Type Name	Description																																																		
1	Chassis cooling fan	0	Standard																																																		
		1	Made in SANYO DENKI																																																		
2	Power supply	S	Standard Specifications (400W)																																																		
3	CPU	1	Intel® Celeron® Processor G6900TE 3GHz / 46W																																																		
		2	Intel® Core™ i3-13100E Processor 4.4GHz (Max) / 60W																																																		
		3	Intel® Core™ i5-13500E Processor 4.6GHz (Max) / 65W																																																		
		4	Intel® Core™ i7-13700E Processor 5.1GHz (Max) / 65W																																																		
4	Memory	2	DDR5 U-DIMM 16GB (16GB x 1)																																																		
		3	DDR5 U-DIMM 32GB (16GB x 2)																																																		
		4	DDR5 U-DIMM 64GB (16GB x 4)																																																		
		5	DDR5 U-DIMM 128GB (32GB x 4)																																																		
5	M.2 (NVMe) *1	0	None																																																		
		B	NVMe SSD(3D TLC) 256GB																																																		
		C	NVMe SSD(3D TLC) 512GB																																																		
		D	NVMe SSD(3D TLC) 1TB																																																		
		E	NVMe SSD(3D TLC) 2TB																																																		
6	Storage (Removable drive 1)	0	None																																																		
		1	3.5-inch HDD 2TB																																																		
		2	3.5-inch HDD 4TB																																																		
		B	2.5-inch SSD(3D TLC) 256GB																																																		
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		E	2.5-inch SSD(3D TLC) 2TB																																																		
7	Storage (Removable drive 2)	0	None																																																		
		1	3.5-inch HDD 2TB																																																		
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8	Optical drive or Storage	0	None																																																		
		1	DVD Super Multi drive																																																		
9	RAID (Removable drive)	0	None																																																		
		h	Hardware RAID (Mirroring)																																																		
10	OS	0	None																																																		
		1	Windows 10 IoT Enterprise 2021 LTSC 64bit (Japanese / English / Chinese / Korean)																																																		
		3	Windows 11 IoT Enterprise LTSC 2024 (Japanese / English / Chinese / Korean)																																																		
11	Additional Standards, AC cable (Included Items), Kitting	-	<table><tr><td></td><td>Common standard</td><td>Additional Standards</td><td>Cable</td><td>Kitting</td></tr><tr><td>0</td><td>VCCI, CE, FCC, UKCA</td><td>No</td><td>PSE</td><td>No</td></tr><tr><td>A</td><td>VCCI, CE, FCC, UKCA</td><td>No</td><td>PSE</td><td>LAN 1port(RJ45)</td></tr></table>		Common standard	Additional Standards	Cable	Kitting	0	VCCI, CE, FCC, UKCA	No	PSE	No	A	VCCI, CE, FCC, UKCA	No	PSE	LAN 1port(RJ45)																																			
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12	Keyboard & Mouse (Included Items)	-	Mouse KB(JP) KB(US) : "USB I/F optical mouse " : "USB I/F keyboard (JP109)" : "USB I/F keyboard (US104)" <table><tr><td></td><td>Bit3 Color*</td><td>Bit2 KB(US)</td><td>Bit1 KB(JP)</td><td>Bit0 mouse</td></tr><tr><td>0</td><td>-</td><td>No</td><td>No</td><td>No</td></tr><tr><td>1</td><td>White</td><td>No</td><td>No</td><td>Yes</td></tr><tr><td>2</td><td>White</td><td>No</td><td>Yes</td><td>No</td></tr><tr><td>3</td><td>White</td><td>No</td><td>Yes</td><td>Yes</td></tr><tr><td>9</td><td>Black</td><td>No</td><td>No</td><td>Yes</td></tr><tr><td>A</td><td>Black</td><td>No</td><td>Yes</td><td>No</td></tr><tr><td>B</td><td>Black</td><td>No</td><td>Yes</td><td>Yes</td></tr><tr><td>C</td><td>Black</td><td>Yes</td><td>No</td><td>No</td></tr><tr><td>D</td><td>Black</td><td>Yes</td><td>No</td><td>Yes</td></tr></table> *Keyboard and mouse are the same color		Bit3 Color*	Bit2 KB(US)	Bit1 KB(JP)	Bit0 mouse	0	-	No	No	No	1	White	No	No	Yes	2	White	No	Yes	No	3	White	No	Yes	Yes	9	Black	No	No	Yes	A	Black	No	Yes	No	B	Black	No	Yes	Yes	C	Black	Yes	No	No	D	Black	Yes	No	Yes
	Bit3 Color*	Bit2 KB(US)	Bit1 KB(JP)	Bit0 mouse																																																	
0	-	No	No	No																																																	
1	White	No	No	Yes																																																	
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D	Black	Yes	No	Yes																																																	
13	Reserved	0	Fixing																																																		
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15	Reserved	0	Fixing																																																		

*1 If you select NVMe SSD, the selected OS is installed on the NVMe SSD.