FA-PC
VPC Series
VPC-3000 Series

This product is a BTO industrial computer that is equipped with a CPU Intel® Core i7 4770S processor (3.10GHz), Core i5 4570S (2.9GHz) processor, or Celeron G1820 processor (2.7GHz). The Intel® Q87 chipset with DDR3 memory (4GB, 8GB, or 16GB) provides advanced computing and graphical performance. This product features a variety of interfaces such as 8 USB ports (front: 2, rear: 6), 2 1000BASE-T ports, 1 RS-232 port, and 1 parallel port. This unit is ideal for a wide range of embedded applications such as control devices and information terminals based on general-purpose PC operating systems.

This series provides carefree use under harsh working conditions such as FA, achieving superb environmental resistance and a long-term stable supply due to careful selection of parts such as an embedded CPU and chipset.

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

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Standard Model (Stock Model whose setup had finished)

Model	CPU	Memory	HDD	Optical Drive	OS
VPC-3000-27225B	Celeron G1820 2.7GHz	DDR3 4GB	SATA 2TB	DVD Super Multi Drive	Windows 7 Professional for Embedded Systems (JPN) 32bit
VPC-3000-37225B	Core i5-4570S 2.9GHz				
VPC-3000-47225B	Core i7-4770S 3.1GHz				
VPC-3000-4721DB					Windows 8.1 Industry Pro (JPN) 64bit

BTO Custom Model (BTO Menu)

Model	CPU	Memory	HDD	Optical Drive	OS
VPC-3000-27000B	Celeron G1820	DDR3 4GB	SATA 250GB (Discontinued)	DVD Super multi	None
					Windows 7 Professional for Embedded Systems (JPN) 32bit
VPC-3000-37000B	Core i5 4570S	DDR3 8GB	SATA 2TB		Windows 7 Professional for Embedded Systems (JPN) 64bit
					Windows 7 Ultimate for Embedded Systems (ENU/JPN/CHS) 32bit
VPC-3000-47000B	Core i7 4770S	DDR3 16GB	SATA 2TB Hardware Mirroring (250GB Discontinued)		Windows 7 Ultimate for Embedded Systems (ENU/JPN/CHS/KOR) 64bit
					Windows 8.1 Industry Pro (JPN) 64bit
			SATA 2TB Software Mirroring (250GB Discontinued)		Windows 10 IoT Enterprise 2016 LTSB Multi language version (ENU/JPN/CHS/KOR) 64bit

* HDD 250GB Discontinued.

Features

Equipped with an Intel® Core i7 CPU (*Core i7 Model)
Embedding a high-performance CPU in the VPC-3000 series enables its low prices.

Uses the Intel® Q87 Chipset
Employing an embedded-style chipset with the VPC-3000 series enables its a long-term stable supply.

Supports mirroring (RAID1)
Mirroring enables the construction of redundant system.

[Hardware RAID]
Selecting the optional mirror card enables the construction of hardware mirroring. Hot-swapping is also supported.

[Software RAID]
Software mirroring can be constructed, but hot-swapping is not supported.

Uses a chassis suitable for embedded applications
Taking advantage of our rich experience, we have designed the VPC-3000 series with optimization for heat dissipation, dampening for operating vibrations, and consideration for scalability.

Supports high-speed high-capacity memory
The VPC-3000 series supports DDR3 SDRAM DIMM modules (4GB, 8GB or 16GB) designed for high transfer speed, flexibly addressing memory-consuming applications such as image processing.

Supported OS

- Windows 7 Professional for Embedded Systems (JPN) 32bit
- Windows 7 Professional for Embedded Systems (JPN) 64bit
- Windows 7 Ultimate for Embedded Systems (ENU/JPN/CHS) 32bit
- Windows 7 Ultimate for Embedded Systems (ENU/JPN/CHS/KOR) 64bit
- Windows 8.1 Industry Pro (JPN) 64bit
- Windows 10 IoT Enterprise 2016 LTSB Multi language version (ENU/JPN/CHS/KOR) 64bit

Specifications

Function specification

System Specification		
CPU *1	Intel Celeron G1820 ------------------------ 2.7GHz	
	Intel Core i5 4570S ------------------------ 2.9GHz	
	Intel Core i7 4770S ------------------------ 3.10GHz	
Chipset	Intel Q87	
BIOS	AMI BIOS	
Memory *1	4GB (4GB x 1), 8GB (4GB x 2), 16GB (4GB x 4) DDR3 SDRAM DIMM (Non-ECC)	
Hard disk drive*1	SATA III 3.5"HDD 2TB (Software/Hardware)RAID1 SATA III 3.5"HDD 2TB ×1 or ×2	
Optical drive	DVD super multi drive	
Display	Digital, Analog combined use DVI-I 29pin, DisplayPort 20pin	
USB port	USB2.0 front 2port, Rear 2port, USB3.0 rear 4port	
PS/2 port	2port (Keyboard/Mouse combo type)	
Audio	Realtek ALC892 High Definition (Mic-in, Line-in, Line-out)	
Serial*2	COM1,2,3,4 (RS-232) *2 D-SUB 9pin×4	
Parallel	D-SUB 25pin×1	
LAN port	100BASE-TX/1000BASE-T RJ45×2	
LAN controller	Intel I218-LM GbE Ethernet Controller(LAN1) Intel I210-AT GbE Ethernet Controller (LAN2)	
Digital I/O	Front : LED output x2　Rear : output x2, Input x4 (Software API support, User application available)	
RAS function	WDT : 1 sec - 255sec (Ressting operatio by time up) Remote reset / Remote power on External input signal Software RAS function (FAN rotation, temperature, Voltage data reading)	
Extended slot	PCI Express x16　　(Max176mm(L)×110mm(H)) : 1 slot PCI Express x4　　　(Max176mm(L)×110mm(H)) : 1 slot PCI　　　　　　　(Max176mm(L)×110mm(H)) : 2 slot	
OS *1	Windows 7 Professional for Embedded Systems (JPN) 32bit Windows 7 Professional for Embedded Systems (JPN) 64bit Windows 7 Ultimate for Embedded Systems (ENU/JPN/CHS) 32bit Windows 7 Ultimate for Embedded Systems (ENU/JPN/CHS/KOR) 64bit Windows 8.1 Industry Pro (JPN) 64bit Windows 10 IoT Enterprise 2016 LTSB Multi language version (ENU/JPN/CHS/KOR) 64bit	
Stand	Wall mount	
Physical dimensions(mm) /Weight	370(W) x 470(D) x 166(H) (No protrusions) / About 14Kg*3	
Power	400W ATX Power (100-240VAC(50-60Hz) Automatic input switch)	

*1　Implement and install the options you selected.
*2　The connector of the D-SUB 9 pin is output from the back of the chassis.
*3　Only the weight of the main unit. Appended goods and the packing box are excluded.

Ambient specification

Item		Specification
Operating temperature／humidity		5〜40℃／20〜80%RH （No condensation）
Storage temperature／humidity		-20℃ to 60℃／5 to 80%RH （No condensation）
Floating dust particles／Corrosive gases		Not to be excessive／None
Line-noise resistance	Static electricity resistance	Contact discharge
	Line noise	AC line／2KV,Signal line／1KV (EN61000-4-4Level3,IEC1000-4-4Level3)
Vibration resistance	Sweep resistance	10 - 57Hz／semi-amplitude 0.015m 57 - 150Hz／0.2G 40 min each X,Y, and Z directions (JIS C0040 compliant、IEC68-2-6 compliant)
Impact resistance		10G, half-sine shock for 11ms in X, Y, and Z directions (JIS C0041 compliant, IEC68-2-27 compliant)
Standard		RoHS, VCCI Class A, FCC class A, CE

Note)　Do not use under environmental conditions beyond normal specifications. The system may malfunction.

Option Mirror card specification

Item	Specification
Number of connected drives	2
RAID level	1
Storage capacity	Max. 2TB
Cache memory size	1MB
Host interface	S-ATA Max. data transfer rate : 3Gbps
Drive interface	S-ATA Max. data transfer rate : 3Gbps
Range of power-supply voltage	4.75VDC〜5.25VDC
Current consumption	1.1A 〜 1.5A
Physical dimensions (L×W)	96mm × 98.2mm
Weight	49g (max.)

Difference from VPC-2000

|		VPC-3000	VPC-2000
Display		DVI-I x1 *	DVI-D x1
		Displayport x1	VGA x1
USB		USB3.0 x4(rear x4)	USB2.0 x6(rear x4,front x2)
		USB2.0 x4(rear x2,front x2)	
Storage		3.5"SATA,2.5"SATA	3.5"SATA
CMOS Power		On the Mother Board	Front
		CR2032	RB-2/3A
OS (WinXP)		Not supported	Supported

*　The VPC-3000 series doesn't have VGA ports.
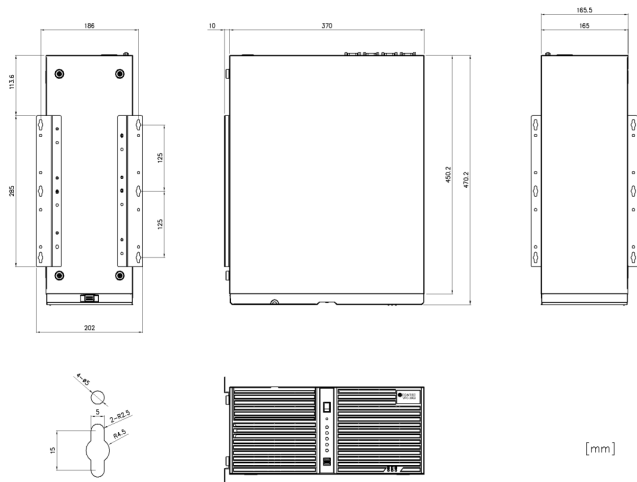　　Please convert DVI to VGA using the attached conversion connector.

Physical Dimensions

VPC-3000

[mm]
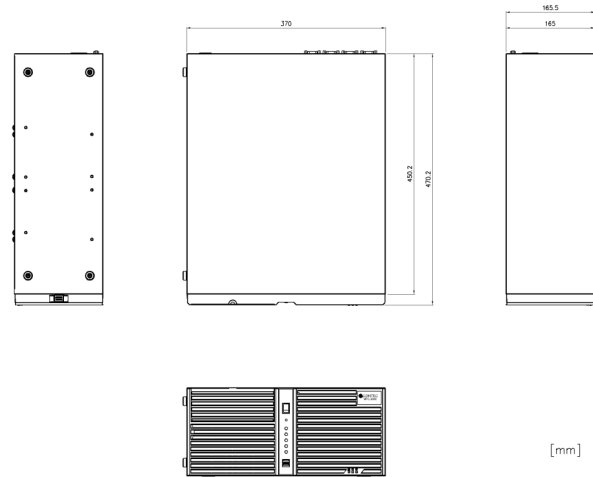
At installation the wall mount stand of VPC-3000 (horizontal installation)

[mm]
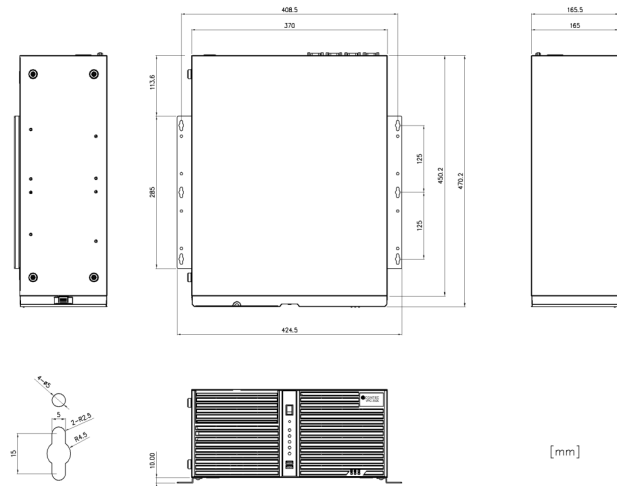
**At installation the wall mount stand of VPC-3000
(Vertical installation)**

[mm]

* Visit the Contec website to check the latest OS.

* The information on data sheet is as of November 2018.