

FA-PC  
VPC Series  
VPC-1600 Series



This product is a BTO industrial computer that is equipped with a CPU Intel® Core i5 4570TE processor (2.7GHz) or Celeron G1820TE processor (2.2GHz). 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 4 USB3.0 ports (rear: 4), 4 USB2.0 ports (front:2, rear:2), 2 1000BASE-T ports, 1 RS-232 port, and 1 parallel port.

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

**Standard Model (Stock Model whose setup had finished)**

Model	CPU	Memory	HDD	Optical system	OS
VPC-1600-17225B	Celeron G1820TE	DDR3 4GB	SATA 250GB	DVD Super-multi drive	Windows 7 Professional SP1 32bit Japanese
VPC-1600-57225B	Core i5 4570TE		SATA 250GB Hardware Mirroring		Windows 10 IoT Enterprise 2015 LTSB 64bit JPN/ENG/ZHO/KOR
VPC-1600-57725B			SATA 250GB		
VPC-1600-572313B			SATA 250GB		

**BTO Custom Model (BTO Menu)**

Model	CPU	Memory	HDD	Optical system	OS
VPC-1600-17000B	Celeron G1820TE	DDR3 4GB	SATA 250GB	DVD Super-multi drive	None
			SATA 2TB		Windows 7 Professional SP1 32bit Japanese
		DDR3 8GB	Hardware Mirroring		Windows 7 Professional SP1 64bit Japanese
					Windows 7 Ultimate SP1 32bit JPN/ENG/ZHO
VPC-1600-57000B	Core i5 4570TE	DDR3 16GB	Software Mirroring	Windows 7 Embedded 8.1 Industry Pro 64bit Japanese	
				Windows 10 IoT Enterprise 2015 LTSB 64bit JPN/ENG/ZHO/KOR	

**Features**

**Equipped with a low power consumption CPU**

The VPC-1600 series uses an Intel® embedded-style, low power consumption CPU.

**Intel® Q87 Chipset is adopted**

Employing an embedded-style chipset, the VPC-1500 series has achieved a long-term stable supply.

**It corresponds to mirroring (RAID1)**

Mirroring that matches the given application enables the construction of redundant systems.

[Software RAID], [Hardware RAID]

**Supports high-speed high-capacity memory**

The VPC-1600 series supports DDR3 SDRAM DIMM modules (4GB to 16GB in total) designed for high-speed transfer speed, flexibly addressing memory-consuming applications such as image processing.

**Supported OS**

- Windows 7 Professional SP1 32bit Japanese
- Windows 7 Professional SP1 64bit Japanese
- Windows 7 Ultimate SP1 32bit Japanese/English/Chinese
- Windows 7 Ultimate SP1 64bit Japanese/English/Chinese/Korean
- Windows Embedded 8.1 Industry Pro 64bit Japanese
- Windows 10 IoT Enterprise 2015 LTSB 64bit Japanese/English/Chinese/Korean

### Difference from VPC-1500

	VPC-1600	VPC-1500
CPU	Core i5 4570TE 2.7GHz Celeron G1820TE 2.2GHz	Core 2 Duo E84003.0GHz Celeron 440 2.0GHz
Memory	4GB(4GB x 1), 8GB(4GB x2), DDR3 SDRAM(Non-ECC)	2GB(2048MB x 1), 4GB(2048MB x 2), DDR3 SDRAM PC3-10600
USB	USB2.0 compliant front 2port, Rear 2 port, USB3.0 compliant Rear 4port	USB2.0 compliant Front 2port, Rear 4 port
Serial	RS-232C : 3 or 4 port (SERIAL PORT A,B,C,D) 9pin D-SUB Connector (Male)	RS-232C D-SUB 9pin x 4
OS	Windows 7 Professional SP1 32bit Japanese Windows 7 Professional SP1 64bit Japanese Windows 7 Ultimate SP1 32bit Japanese/English/Chinese Windows 7 Ultimate SP1 64bit Japanese/English/Chinese/Korean Windows 7 Embedded 8.1 Industry Pro 64bit Japanese Windows 10 IoT Enterprise2015 LTSB 64bit Japanese/English/Chinese/Korean	Windows XP Professional SP3 32bit Japanese English (Japanese/Chinese) Windows 7 Professional SP1 32bit Japanese English

### Specifications

#### Function specification

Item	Specification
CPU *1	Core i5 4570TE ----- 2.7GHz Celeron G1820TE -- 2.2GHz
Chipset	Intel® Q87
BIOS ROM	AMI BIOS
Memory *1	4GB(4GBx1), 8GB(4GBx2) DDR3 SDRAM (Non-ECC)
Hard disk drive	- SATAIII 3.5" HDD 250GB/2TB (Software/Hardware *2) RAID - SATAIII 3.5" HDD 250GB/2TB xL or x2
Optical drive	DVD super multi drive Max reading speed DVD-ROM x8, CD-ROM x24 Max writing speed DVD+/-R x8, DVD+/-R-DL x8, DVD-RW x6, DVD+R x8, DVD-RAM x5, CD-R x24, CD-RW x24
Display	Both analog and digital DVI-I 29pin, DisplayPort 20pin
USB	USB2.0 compliant front 2port, Rear 2 port, USB3.0 compliant Rear 4port
PS/2	2port (Keyboard/Mouse)
Audio	Realtek ALC892-GR, Line Out, Line In, Mic In
Serial	RS-232C : 3 or 4 port (SERIAL PORT A, B,C,D) 9pin D-SUB Connector (Male)
Parallel	1port D-SUB 25pin(Female)
LAN port	2port (100BASE-TX/1000BASE-TRJ45)
Digital I/O	Front : LED Output x2 *5 Rear : Output 2 point, Input : 4 point (Software API support, User Application available)
RAS function	WDT : 1sec~255sec (Resetting operation by end) Remote reset/Remote power on External input signal Software RAS function (Fan rotation, temperature, Voltage data reading)
Extended slot	PCI x3 *6 *7 Installation max. : 176.41mm(L) x 106.68mm(H)
OS	Windows 7 Professional SP1 32bit Japanese Windows 7 Professional SP1 64bit Japanese Windows 7 Ultimate SP1 32bit Japanese/English/Chinese Windows 7 Ultimate SP1 64bit Japanese/English/Chinese/Korean Windows Embedded 8.1 Industry Pro 64bit Japanese Windows 10 IoT Enterprise 2015 LTSB 64bit Japanese/English/Chinese/Korean
Stand	Vertical stand *1, Horizontal installation bracket
Physical dimensions/Weight	115mm(W) x 410mm(D) x 310mm(H) (No protrusions) / About 8kg
Power	270W FlexATX Power (100-240VAC/50/60Hz) Automatic input switch

- \*1 Implement and install the options you selected.
- \*2 With the Hardware RAID configuration, the transfer speed becomes that of SATA II.
- \*3 Install the options you selected.
- \*4 Only the weight of the main unit. It weighs about 92kg in RAID configuration.
- \*5 Front LED x 2 are used by option of hardware raid utility.
- \*6 You can not be used PCI bus extension chassis made by CONTEC.
- \*7 When the number of COM ports is increased, one of these open slots is used.

### Ambient specification

Item	Specification
Operating temperature	5 to 40°C
Storage temperature	-20°C to 60°C
Ambient humidity	20 to 80%RH(No condensation)
Floating dust particles	Not to be excessive
Corrosive gases	None
Line-noise resistance	Line noise AC line / ±2kV Signal line / ±1kV (EN61000-4-4Level3/IEC1000-4-4Level3)
	Static electricity resistance Contact discharge / ±4kV(EN61000-4-2Level2/IEC1000-4-2 Level2) Atmospheric discharge / ±8kV(EN61000-4-2Level3/IEC1000-4-2 Level3)
Vibration resistance	Sweep resistance 10 to 57Hz / 0.015m(semi-amplitude), 57 to 150Hz / 1.96m/S2(0.2G) 40 min each X,Y, and Z directions (JIS C60068-2-6 compliant, IEC60068-5-6 compliant)
	Impact resistance 10G, half-sine shock for 11 ms in X,Y, and Z directions (JIS C0041 compliant, IEC68-2-27 compliant)
Installation	Class D grounding (previous class 3 grounding), SG-FG/conduction
Certification	VCCI Class A, FCC Class A, CE Marking(EMC Directive Class A, Low Voltage Directive, RoHS)

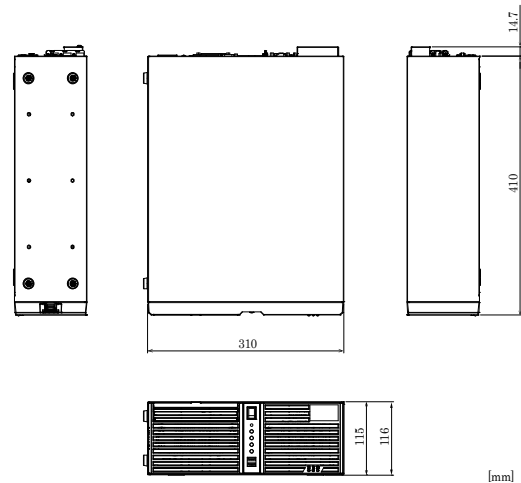
\* Do not use under environmental conditions beyond normal specifications. The system may malfunction.

### Option Mirror card specification

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

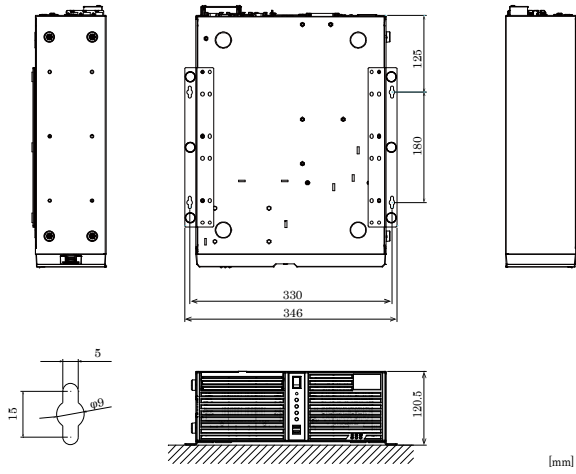
### Physical Dimensions

#### VPC-1600 (Horizontal putting)



※ 116mm is the height including the protrusion for attaching rubber feet.

VPC-1600 (At installation the wall mount stand)



VPC-1600 (At installation the vertical stand)

