

Business Computer GPC-700 Series



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

Features

Compatible with Intel® Core™ processor series Skylake

The product is equipped with the 6th-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.

The compact size that can install at a small area

This product is a compact size PC of 264(W)×263(D)×112(H)mm that can install at a small area.

Supports mirroring (RAID1)

Mirroring enables the construction of redundant systems.

[Software RAID]

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

Major types of peripherals are supported with rich interfaces including

It has a variety of extended interface such as PCI Express 3.0(×16) ×1 slot, DVI-I ×1, HDMI ×1, DisplayPort ×1, 1000BASE-T ×3, USB3.1 Gen1 (USB3.0) ×6, USB2.0 ×2, serial (RS-232C/RS-422A/RS-485) ×1, Audio.

Conforming to various global standards

This product is conforming to the standards of the following countries. Japan (VCCI), United States of America (FCC, CSA), Canada (CSA), Mexico (NOM), Argentina (IRAM), Europe (CE), Great Britain (UKCA), Ukraine (Ukr Sepro), Moldova (INSM), Israel (IEC / Israel 60950), China (CCC), South Korea (KC), Taiwan (BSMI), Oceania (RCM), Singapore (PSB), South Africa (NRCS LOA), Cambodia (KS Compliance), Kenya (PVOC), Nigeria (SONCAP), Serbia (KVALITET), India (BIS)

Supported OS

- Windows 10 IoT Enterprise LTSB 2016 64bit (Japanese / English / Chinese / Korean)
- Windows 10 IoT Enterprise 2019 LTSC 64bit (Japanese / English / Chinese / Korean)
- Windows 10 IoT Enterprise 2019 LTSC 64bit with Microsoft Edge (Chromium) (Japanese/English/Chinese/Korean)

This product is a high-performance embedded-type personal computer equipped with the 6th-generation Intel® Core™ processor.

It has extension interfaces such as DVI-I, HDMI, DisplayPort, 1000BASE-T, USB 3.1 Gen1 (USB3.0), serial and Audio. These Units are ideal for a wide range of embedded applications, such as control devices and information terminals based on general-purpose PC OSes.

Embedded-type chipset and CPU have been adopted. The use of readily available parts ensures the ease of the use of the product.

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

- * 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 January 2024.

Specifications

Function specifications <1/2>

Item	Description
CPU	Intel® Core™ i5 Processor 6500 3.2GHz
Chip set	Intel® Q170
BIOS	BIOS (mfd. by AMI)
Memory [Selection]	Max16GB, 260pin SO-DIMM Socket x 2, PC4-17000(DDR4 2133) DDR4 SDRAM 8GB: 8GB DDR4 SO-DIMM 2133MHz ×1 16GB: 8GB DDR4 SO-DIMM 2133MHz ×2
Graphic *1	DVI-I x 1 *2, HDMI x 1, DisplayPort x 1, Supports three displays
Controller	Intel® HD Graphics 530
System resolution	HDMI 800 x 600, 1024 x 768, 1152 x 864, 1280 x 600, 1280 x 720, 1280 x 800, 1280 x 960, 1280 x 1024, 1360 x 768, 1366 x 768, 1400 x 1050, 1440 x 900, 1600 x 1200, 1680 x 1050, 1792 x 1344, 1856 x 1396, 1920 x 1080, 1920 x 1440, 2048 x 1152, 2048 x 1536, 2560 x 1600, 2560 x 1920, 2560 x 2048, 3840 x 2160 (16,770,000 colors)
	Display Port 800 x 600, 1024 x 768, 1152 x 864, 1280 x 600, 1280 x 720, 1280 x 800, 1280 x 960, 1280 x 1024, 1360 x 768, 1366 x 768, 1400 x 1050, 1440 x 900, 1600 x 1200, 1680 x 1050, 1792 x 1344, 1856 x 1396, 1920 x 1080, 1920 x 1440, 2048 x 1152, 2048 x 1536, 2560 x 1600, 2560 x 1920, 2560 x 2048, 3840 x 2160 (16,770,000 colors)
	DVI-I 800 x 600, 1024 x 768, 1152 x 864, 1280 x 600, 1280 x 720, 1280 x 768, 1280 x 800, 1280 x 960, 1280 x 1024, 1360 x 768, 1366 x 768, 1400 x 1050, 1440 x 900, 1600 x 900, 1600 x 1200, 1680 x 1050, 1920 x 1080, 1920 x 1200 (16,770,000 colors)
Storage [Selection]	SATA III 2.5-inch x 2 SATA III 2.5-inch HDD 500GB (Max. 2pcs) SATA III 2.5-inch SSD 240GB (Max. 2pcs) Software raid (Mirroring) support
Optical drive [Selection]	Super Multi drive
Audio	3.5p stereo minijack, HD Audio compliant Front: Line out, Mic in, 1 port Rear: Line in, Line out, Mic in, 1 port
LAN	3 ports (RJ-45 connector) LAN-1: Intel I219-LM Controller, LAN-2, 3: Intel I210-AT Controller 1000BASE-T/100BASE-TX/10BASE-T, Wake On LAN support
USB	A-TYPE connector Front: USB2.0 x 2 ports Rear: USB3.1 Gen1 (USB3.0) x 6 ports
Serial	9pin D-SUB connector(male) RS-232C/422A/485 x 1 port, Baud rate: 50 - 115,200bps
Expansion slot	PCI Express 3.0(×16) 1 slot Low Profile support Usable board dimension: Max. 150mm(L) x 67.9mm(H)
Security (TPM)	TCG TRM2.0

Function specifications <2/2>

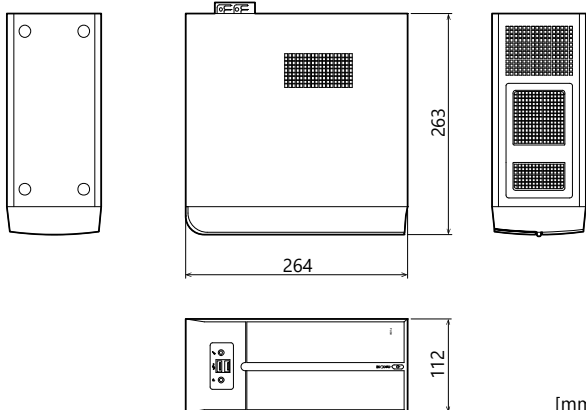
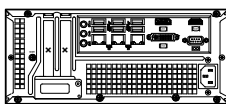
Item	Description
Hardware monitoring	Monitoring CPU temperature, system temperature, power voltage
RTC/CMOS	The real-time clock is accurate within ± 3 minutes (at 25°C) per month Lithium backup battery life : 7 years or more
Power Management	Power management setup via BIOS, Power On by Ring / Wake On LAN
Supportable OS [Selection]	Windows 10 IoT Enterprise 2016 LTSC 64bit (Japanese / English / Chinese / Korean) Windows 10 IoT Enterprise 2019 LTSC 64bit (Japanese/English/Chinese/Korean) Windows 10 IoT Enterprise 2019 LTSC 64bit with Microsoft Edge (Chromium) (Japanese/English/Chinese/Korean)
Power supply	
Rated input voltage	100 - 240VAC (50/60Hz)
Range of input voltage	90 - 264VAC
Rated input current	4A
Power consumption (Max.)	160W
External device power supply capacity	USB2.0, USB3.1 V/F : +5V : Total 2.5A or less (Total is 2.0A or less when Drive 0, 1 are used for storage) PCI Express 3.0(x16) slot, 3.3V : 2.0A, +12V : 1.0A (19W or less)
Physical dimensions (mm)	264(W)×263(D)×112(H) (No protrusions)
Weight	About 4.3kg (Excluding attachment fittings)

- *1 If the display cable is connected after the PC turns on, Monitor may not be displayed.
 *2 When connecting a display using only analog RGB on models with Windows 10 pre-installed (with "CSM Support" set to "Disabled"), a beep may be heard five times at startup, and the BIOS screen may not be displayed for some displays.
 The OS screen will be displayed and the product can be used as normal.
 To configure BIOS settings, use a different interface (DVI, HDMI, DisplayPort, etc.), or connect a different display.

Environment Requirements

Item	Description
Operating temperature	5 - 40°C
Storage temperature	-20 - +60°C
Operating Humidity	20 - 80%RH (No condensation)
Storage Humidity	5 - 80%RH (No condensation)
Floating dust particles	Not to be excessive
Corrosive gases	None
Line-noise resistance	Line noise: AC line / ± 2 kV, Signal line / ± 1 kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3) Static electricity resistance: Contact discharge / ± 4 kV (IEC61000-4-2 Level 2, EN61000-4-2 Level 2) Atmospheric discharge / ± 8 kV (IEC61000-4-2 Level 3, EN61000-4-2 Level 3)
Vibration resistance	Sweep resistance: 10 - 57Hz / semi-amplitude : 0.075 mm, 57 - 150Hz / 9.8m/s ² (1G) 40 min. each in x, y, and z directions (JIS C60068-2-6 compliant, IEC60068-2-6 compliant)
Impact resistance	98m/s ² (10G) / 11ms / half-sine shock for 3 times in x, y, and z directions (JIS C60068-2-27 compliant, IEC60068-2-27 compliant)
Standard	VCCI Class B, FCC Class B, CE Marking (EMC Directive Class B, Low Voltage Directive, RoHS2 Directive, WEEE Directive), UKCA, CSA, NOM, IRAM, Ukr Sepro, INSM, IEC/Israel 60950, CCC, KC Class A, BSMI, RCM, PSB, NRCS LOA, KS Compliance, PwC, SONCAP, KVALITET, BS
Grounding	Class D grounding

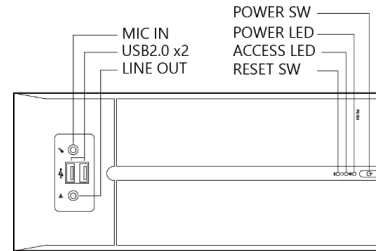
Physical Dimensions



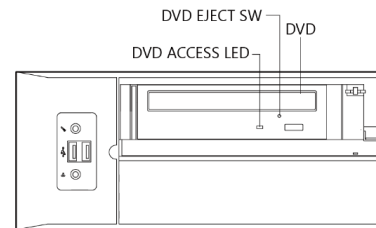
[mm]

Nomenclature of Product Components

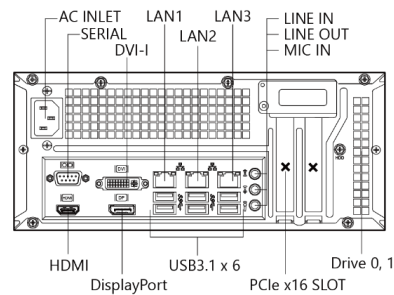
Front View 1



Front View 2



Rear View



Name	Function
POWER LED	Power ON display LED
ACCESS LED	SATA device access display LED
POWER SW	Power switch
RESET SW	Reset switch
DVD	Super multi drive
Drive 0	SATA III 2.5 inch internal drive
Drive 1	
DVD ACCESS LED	DVD access display LED
DVD EJECT SW	Eject switch
SERIAL	RS-232C/422/485 (9pin D-SUB connector (male)) 1 port
DVI-I	DVI-I 1 port
DisplayPort	DisplayPort Connector 1 port
HDMI	HDMI (19pin HDMI TYPE-A connector) 1 port
USB3.1	USB3.1 Gen1 (USB3.0) (TYPE-A connector) 6 port (Rear)
USB2.0	USB2.0 (TYPE-A connector) 2 port (Front)
LAN	1000BASE-T/100BASE-TX/10BASE-T (RJ-45 connector) 3 port
AUDIO	Line in, Line out, Mic in (3.5p stereo minijack) 1 port (Rear) Line out, Mic in (Front)
AC INLET	AC100-240V Power input connector
Expansion Slot	The expansion board of PCI-Express 3.0(x16) bus type is installable into one slot.

Included Items

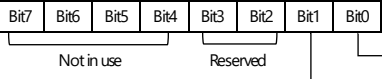
- Product...1
- Japanese Model AC Cable *3...1
- Global Model AC Cable *3...1
- DVI-analog RGB Conversion Adapter...1
- Rubber Foot...4
- Flat Screw for HDD (Black) *1...8
- Binding Screw for Extension Board *1...2
- DVD Drive Mounting Screw *2...4
- USER QUICK START GUIDE...1
- WEEE Directive...1
- Hazardous Substances Management...1
- Battery Replacement Procedure...1
- Product Guide...1

*1 The quantity varies depending on the product configuration.
*2 Packed when DVD drive is unselected.
*3 Optional

Model List

GPC-700 Model RuleModel Name **GPC-700**Type Name **B 2 2 1 1 1 R 1 0 0 0**

No. 1 2 3 4 5 6 7 8 9 10 11

No.	Item	Type Name	Description
1	Product	B	GPC-700
2	CPU	2	Core i5 6500 (65W)
3	Memory	1	DDR4 SO-DIMM 8GB (8GB x 1)
		2	DDR4 SO-DIMM 16GB (8GB x 2)
4	Storage (Drive 0)	1	500GB 2.5inch HDD
		2	240GB 2.5inch SSD
5	Storage (Drive 1)	1	500GB 2.5inch HDD
		2	240GB 2.5inch SSD
6	Optics system drive (SATA 3)	0	None
		1	DVD Multi Drive
7	RAID	0	None
		R	Software RAID (Mirroring)
8	OS	0	None
		1	Windows 10 IoT Enterprise LTSC 2016 64bit (Japanese / English / Chinese / Korean)
		2	Windows 10 IoT Enterprise 2019 LTSC 64bit (Japanese / English / Chinese / Korean)
		B	Windows 10 IoT Enterprise 2019 LTSC 64bit with Microsoft Edge (Chromium) (Japanese/English/Chinese/Korean)
9	Reserved	0	Reserved
10	Option		 Bit7 Bit6 Bit5 Bit4 Bit3 Bit2 Bit1 Bit0 Not in use Reserved Partitioning service option Include the AC cable option for Japanese specifications Bit0: Partition Service (Partitioning with 1) Bit1: Include the AC cable for Japanese specifications. (Included with 1) Bit2: Reserved Bit3: Reserved
		0	None
		1	With partition
		2	With the AC cable for Japanese specifications
		3	With partition and the AC cable for Japanese specifications
11	Bundled AC cable (Global specifications)	0	None
		A	North America
		B	EU
		C	Argentina
		D	China
		E	Australia/New Zealand
		F	Brazil
		G	South Korea
		H	South Africa
		I	Israel
		J	Switzerland
		K	United Kingdom/Saudi Arabia
		L	Taiwan