

# DATENBLATT

---

## EPC-3010-Serie

### **HABEN SIE FRAGEN ODER WÜNSCHEN SIE EIN INDIVIDUELLES ANGEBOT?**

Unser Team berät Sie gerne persönlich.

**TELEFON** + 49 (0) 81 41/36 97-0

**TELEFAX** + 49 (0) 81 41/36 97-30

**E-MAIL** [info@plug-in.de](mailto:info@plug-in.de)

**WWW.PLUG-IN.DE**

### **ADRESSE**

Am Sonnenlicht 5

D-82239 Alling bei München



Embedded-PC  
EPC-3010 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.

Three types of CPU are lined up.

- Intel® Core™ i7-6700TE
- Intel® Core™ i5-6500TE
- Intel® Celeron™ G3900TE

**CPU built-in high-performance graphics**

Core i7/i5 model has corresponds to the Intel® HD Graphics 530.  
Celeron model has corresponds to the Intel® HD Graphics 510.  
Full HD video can be smoothly played. It also supports full HD output of the three-screen with the DVI-I, DisplayPort and HDMI.

**Adopt removable storage**

The product adopts front accessible 2.5-inch SATA storage, and also supports RAID function such as mirroring.

**Extend peripherals freely. Rich interface**

This product is equipped with a variety of expansion interfaces such as DVI-I, HDMI, DisplayPort, 1000BASE-T × 3, USB3.0 × 6, serial (RS-232C) × 4, such as audio. You can assist our use in various scenes.

**Equipped with expansion slots that can house PCI-Express (x8) or PCI boards**

The EPC-3010P2 series is equipped with two PCI bus slots.  
The EPC-3010P4 series is equipped with one PCI-Express (×8 bus slot) and three PCI bus slots.  
The maximum size of boards that can be installed is 176 (L) × 110 (H) mm.

**The identical dimensions enable easy replacement with the EPC-2010 series**

In order to replace the system with ease, this product has the same physical dimensions as the EPC-2010 series.

Supported OS

- Windows10 IoT Enterprise 2016 LTSB 64bit (Japanese / English / Chinese / Korean)
- Windows7 Professional SP1 32bit (Japanese / English)
- Windows7 Professional SP1 64bit (Japanese / English)

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

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

The EPC-3010P2 series is equipped with two PCI bus slots.

The EPC-3010P4 series is equipped with one PCI-Express × 8 bus slot and three PCI bus slots.

- \*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 September, 2018.

Model

EPC-3010 Series

EPC-3010 [without expansion slot model]

EPC-3010P2 [expansion slot model PCI bus: Two slots]

EPC-3010P4 [expansion slot model PCI-Express (x8 bus): One slot, PCI bus: Three slots]

Differences between the EPC-3010 Series and EPC-2010 Series

Model	EPC-3010 Series	EPC-2010 Series
CPU	Intel Core i7 Processor 6700TE 2.4GHz Intel Core i5 Processor 6500TE 2.3GHz Intel Celeron Processor G3900TE 2.3GHz	Intel Core i7 Processor 2710QE 2.1GHz Intel Core i5 Processor 2510E 2.5GHz Intel Celeron Processor B810 1.6GHz
Chipset	Intel Q170	Intel QM67
Memory	Max32GB, 260pin SO-DIMM Socket x 2, PC4-17000(DDR4 2133) DDR4 SDRAM	Max 8GB, 204pin SO-DIMM Socket x 2, PC3-10600(DDR3 1333) DDR3 SDRAM
Graphic Controller	Intel HD Graphics 530 (Core i7, Core i5 Model) Intel HD Graphics 510 (Celeron Model)	Intel HD Graphics 3000 (Core i7, Core i5 Model) Intel HD Graphics (Celeron Model)
Interface		
External display	DVI-I x 1, HDMI x 1, DisplayPort x 1 Supports three displays	Analog RGB x 1, HDMI x 1, DisplayPort x 1 Supports two displays
Serial ATA	2-slot, removable, 2.5-inch SATA storage, serial ATA 3.0 standard port	2-slot, removable, 2.5-inch SATA storage, serial ATA 2.0 standard port 1-slot, shadow bay, 2.5-inch SATA storage, serial ATA 2.0 standard port
C/Fast card slot	None	1 slot
LAN	LAN-A: Intel I219-LM Controller, LAN-B, C: Intel I210-AT Controller 1000BASE-T/100BASE-TX/10BASE-T, 3 port (RJ-45 connector)	LAN-A: Intel 82579LM Controller, LAN-B: Intel 82583V Controller 1000BASE-T/100BASE-TX/10BASE-T, 2 port (RJ-45 connector)
USB	USB 3.0-compliant 6 port	USB 2.0-compliant 6 port
PS/2	None	2 ports (Keyboard / Mouse)
Power supply		
External device power supply capacity	- USB I/F +5V: 5.4A (900mA x 6) *1	- C/Fast card slot +3.3V: 500mA - USB I/F +5V: 3A (500mA x 6)

\*1. For model with expansion slot, supply power capacity is different. Please see "Specifications".

## Specifications

### Function specification

Model	EPC-3010	EPC-3010P2	EPC-3010P4	
CPU [Selection]	Intel® Core™ i7 Processor 6700TE 2.4GHz Intel® Core™ i5 Processor 6500TE 2.3GHz Intel® Celeron® Processor G3900TE 2.3GHz			
Chip set	Intel® Q170			
BIOS	BIOS (mfd. by AMI)			
Memory [Selection]	Max16GB, 260pin SO-DIMM Socket x 2, PC4-17000(DDR4 2133)DDR4 SDRAM			
Graphic				
Controller	Intel® HD Graphics 530 (Core™ i7, Core™ i5 model) Intel® HD Graphics 510 (Celeron® model)			
System resolution	HDMI	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 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 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 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 (16,770,000 colors)		
Storage [Selection]	SATA III 2.5" HDD 500GB (2 units maximum) SATA III 2.5" SSD 256GB (2 units maximum)			
Audio	HD Audio compliant, LINE OUT x 1, LINE IN x 1, MIC IN x 1			
LAN	LAN-A: Intel I219-LM Controller, LAN-B, C: Intel I210-AT Controller 1000BASE-T/100BASE-TX/10BASE-T, Wake On LAN support			
USB	USB 3.0-compliant			
Serial	RS-232C (general-purpose): 4ch, Baud rate: 50 - 115,200bps			
Expansion board slot [Selection]	None	PCI slot x 2 Usable board dimension: Max. 176mm(L) x 110mm(H)	PCI-Express(x8) slot x 1 PCI slot x 3 Usable board dimension: Max. 176mm(L) x 110mm(H)	
Hardware monitoring	Monitoring CPU temperature, board temperature, power voltage			
Watch dog timer	Software programmable, 255 level (1sec - 255 sec), Causes a reset upon time-out.			
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			
Interface				
External display	DVI-I x 1, HDMI x 1, DisplayPort x 1 Supports three displays			
Audio	Line input/output: φ3.5 Stereo mini jack (LINE OUT, LINE IN, MIC IN)			
Serial ATA	2-slot, removable, 2.5-inch SATA storage, serial ATA3.0 standard port			
LAN	3 port (RJ-45 connector)			
USB	6 port (A-TYPE connector)			
RS-232C	4 port (9pin D-SUB connector [male])			
GPIO	6 points (input/output is chosen by BIOS setup)			
Power supply				
Rated input voltage	100 - 240VAC			
Range of input voltage	90 - 264VAC			
Power consumption (Max)	100 - 240VAC 2.1 - 0.9A			
External device power supply capacity	- USB I/F +5V: 5.4A	- USB I/F +5V: 5.4A - PCI slot +3.3V: 4A, +5V: 4A, +12V: 1A	- USB I/F +5V: 5.4A - PCI slot +3.3V: 3A, +5V: 3A, +12V: 0.5A - PCI-Express(x8) slot +3.3V: 3A, +12V: 2.1A	
	Physical dimensions (mm) *1	262(W) x 262(D) x 88(H)	262(W) x 262(D) x 143(H)	262(W) x 262(D) x 183(H)
	Weight *2	About 4.0kg	About 4.8kg	About 5.6kg

\*1: The attachment fittings and protruding parts are not included.

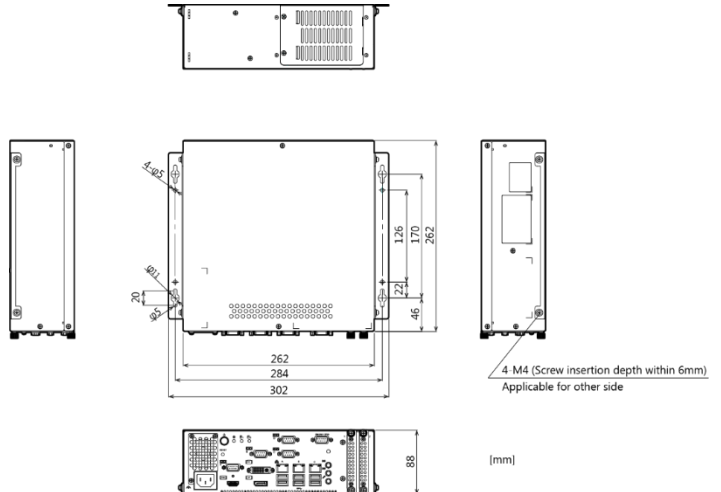
\*2: The weight (which does not include accessories) may vary depending on the product configuration.

### Installation Environment Requirements

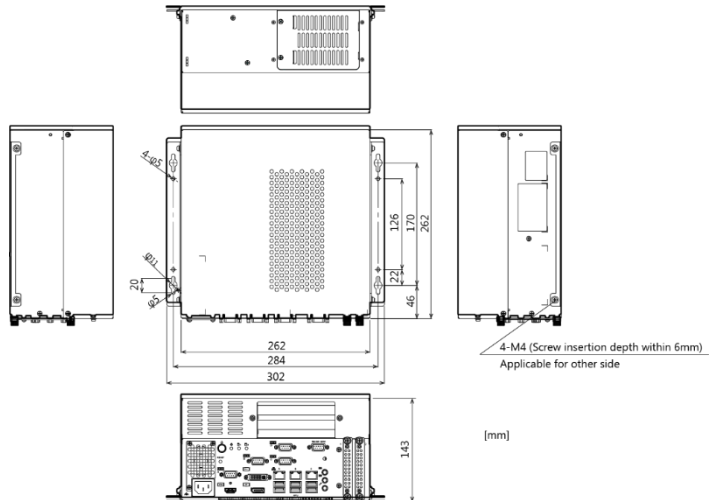
Model	EPC-3010	
Operating temperature	0 - 40°C	
Storage temperature	-20 - 60°C	
Humidity	20 - 85%RH (No condensation)	
Floating dust particles	Not to be excessive	
Corrosive gases	None	
Line-noise resistance	Line noise	AC line /±2kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3) Signal line /±1kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3)
	Static electricity resistance	Contact discharge /±4kV (IEC61000-4-2 Level 2, EN61000-4-2 Level 2) Atmospheric discharge /±8kV (IEC61000-4-2 Level 3, EN61000-4-2 Level 3)
Vibration resistance	Sweep resistance	- HDD installed (When the HDD is on): 10 - 50Hz/0.5G 25 min, each in x, y, and z directions (JIS C 60068-2-6-compliant, IEC60068-2-6-compliant) - HDD installed (When the HDD is off) and SSD installed: 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
Standard	VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive)	
Grounding	Class D grounding, SG-FG / continuity	

## Physical Dimensions

### EPC-3010



### EPC-3010P2



### EPC-3010P4

