

6th Generation Intel® Core™ Processor (Skylake)

FA Computer **EPC-3000** series

A Compact and High-Performance Embedded PC with Superior Scalability



BTO (Build-to-Order) Types to Meet Any Need



EPC-3010 (standard)

EPC-3010P2 (2 slots)

EPC-3010P4 (4 slots)

- **Equipped with Powerful 6th Gen. Intel® Core™ processor “Skylake”**
 Enables powerful edge computing by using a 6th generation Intel® Core™ processor capable of both real-time, high-speed processing and advanced graphics processing.
- **Three Gigabit LAN ports for alternating connections between different network layers**
 This makes it the optimal device for IoT gateway applications that alternate connections between different network layers such as between field buses and controllers within a factory and higher-order information system networks.
- **Equipped with a CPU-integrated high-performance graphics controller that supports both 4K output and triple screen display functionality**
 Core i7 and i5 models support Intel HD Graphics 530, while Celeron models support Intel HD Graphics 510. Smoothly plays even 4K high-definition video.
 Also supports triple screen output using DVI-I, DisplayPort, and HDMI.
- **Employs removable storage for enhanced maintainability**
 This product uses a 2.5-inch SATA storage device, which is accessible from the front of the product, and also supports RAID functions (mirroring) for enhanced stability.
- **Physical dimensions and mounting specifications compatible with conventional models**
 In order to facilitate the replacement of conventional EPC-2010 series, physical dimensions and mounting brackets have been kept the same.

Application : Edge Computing for smart factory, Embedded Controller for semi conductor machine



Specifications

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]																							
Chipset	Intel® Q170																							
BIOS	AMI BIOS																							
Memory [Selection]	Max. 16GB, 260 pin SO-DIMM socket × 2, PC4-17000(DDR4 2133)DDR4 SDRAM [8GB(1x8GB)] [16GB(2x8GB)]																							
Graphic	<table border="1"> <tr> <td>Controller</td> <td colspan="2">Intel® HD Graphics 530 (Core™ i7, Core™ i5 model) Intel® HD Graphics 510 (Celeron™ model)</td> </tr> <tr> <td rowspan="3">System Resolution</td> <td>HDMI</td> <td>800 × 600, 1024 × 768, 1152 × 864, 1280 × 600, 1280 × 720, 1280 × 768, 1280 × 800, 1280 × 960, 1280 × 1024, 1360 × 768, 1366 × 768, 1400 × 1050, 1440 × 900, 1600 × 900, 1600 × 1200, 1680 × 1050, 1920 × 1080, 1920 × 1440, 2048 × 1152, 2048 × 1536, 2560 × 1600, 2560 × 1920, 2560 × 2048, 3840 × 2160 (16,770,000 colors)</td> </tr> <tr> <td>Display Port</td> <td>800 × 600, 1024 × 768, 1152 × 864, 1280 × 600, 1280 × 720, 1280 × 768, 1280 × 800, 1280 × 960, 1280 × 1024, 1360 × 768, 1366 × 768, 1400 × 1050, 1440 × 900, 1600 × 900, 1600 × 1200, 1680 × 1050, 1920 × 1080, 1920 × 1440, 2048 × 1152, 2048 × 1536, 2560 × 1600, 2560 × 1920, 2560 × 2048, 3840 × 2160 (16,770,000 colors)</td> </tr> <tr> <td>DVI-I</td> <td>800 × 600, 1024 × 768, 1152 × 864, 1280 × 600, 1280 × 720, 1280 × 768, 1280 × 800, 1280 × 960, 1280 × 1024, 1360 × 768, 1366 × 768, 1400 × 1050, 1440 × 900, 1600 × 900, 1600 × 1200, 1680 × 1050, 1920 × 1080 (16,770,000 colors)</td> </tr> </table>			Controller	Intel® HD Graphics 530 (Core™ i7, Core™ i5 model) Intel® HD Graphics 510 (Celeron™ model)		System Resolution	HDMI	800 × 600, 1024 × 768, 1152 × 864, 1280 × 600, 1280 × 720, 1280 × 768, 1280 × 800, 1280 × 960, 1280 × 1024, 1360 × 768, 1366 × 768, 1400 × 1050, 1440 × 900, 1600 × 900, 1600 × 1200, 1680 × 1050, 1920 × 1080, 1920 × 1440, 2048 × 1152, 2048 × 1536, 2560 × 1600, 2560 × 1920, 2560 × 2048, 3840 × 2160 (16,770,000 colors)	Display Port	800 × 600, 1024 × 768, 1152 × 864, 1280 × 600, 1280 × 720, 1280 × 768, 1280 × 800, 1280 × 960, 1280 × 1024, 1360 × 768, 1366 × 768, 1400 × 1050, 1440 × 900, 1600 × 900, 1600 × 1200, 1680 × 1050, 1920 × 1080, 1920 × 1440, 2048 × 1152, 2048 × 1536, 2560 × 1600, 2560 × 1920, 2560 × 2048, 3840 × 2160 (16,770,000 colors)	DVI-I	800 × 600, 1024 × 768, 1152 × 864, 1280 × 600, 1280 × 720, 1280 × 768, 1280 × 800, 1280 × 960, 1280 × 1024, 1360 × 768, 1366 × 768, 1400 × 1050, 1440 × 900, 1600 × 900, 1600 × 1200, 1680 × 1050, 1920 × 1080 (16,770,000 colors)											
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Storage [Selection]	SATA II 2.5" HDD 500GB (MAX. x 2) SATA II 2.5" SSD 256GB (MAX. x 2) [None] [500GB HDDx1] [500GB HDDx2] [256GB SSD(MLC)x1] [256GB SSD(MLC)x2] [Software RAID setting available]																							
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 slot	None	PCI slot x 2 Usable board dimension : (Max.) 176(L) × 110(H) [mm]	PCI-Express(x8) slot x 1 PCI slot x 3 Usable board dimension : (Max.) 176(L) × 110(H) [mm]																					
Hardware monitor	Monitoring CPU temperature, power voltage																							
Watchdog timer	Software programmable, 255 level (1sec - 255sec) Time up allows reset.																							
RTC/CMOS	Lithium backup battery life: 7 years or more. The real-time clock is accurate within ±3 minutes (at 25° C) per month																							
Power management	Power management setting by BIOS, Power On by Ring / Wake On Lan function																							
Interface	<table border="1"> <tr> <td>Display</td> <td colspan="2">DVI-I × 1, HDMI × 1, DisplayPort × 1 Supports triple screen output</td> </tr> <tr> <td>Audio</td> <td colspan="2">LINE OUT : 3.5φ Stereo mini jack (LINE OUT, LINE IN, MIC IN)</td> </tr> <tr> <td>Serial ATA</td> <td colspan="2">2 slots, removable type, 2.5" SATA hard disk, Serial ATA2.0 ports</td> </tr> <tr> <td>LAN</td> <td colspan="2">3 ports (RJ-45 connector)</td> </tr> <tr> <td>USB</td> <td colspan="2">6 ports (TYPE-A connector)</td> </tr> <tr> <td>RS-232C</td> <td colspan="2">4 ports (9 pin D-SUB connector [male])</td> </tr> <tr> <td>GPIO</td> <td colspan="2">6 points (input/output is chosen by BIOS setup)</td> </tr> </table>			Display	DVI-I × 1, HDMI × 1, DisplayPort × 1 Supports triple screen output		Audio	LINE OUT : 3.5φ Stereo mini jack (LINE OUT, LINE IN, MIC IN)		Serial ATA	2 slots, removable type, 2.5" SATA hard disk, Serial ATA2.0 ports		LAN	3 ports (RJ-45 connector)		USB	6 ports (TYPE-A connector)		RS-232C	4 ports (9 pin D-SUB connector [male])		GPIO	6 points (input/output is chosen by BIOS setup)	
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OS [Selection]	[None] / [Windows 10 IoT Enterprise 2019 LTSC 64bit Multi-language (JPN/ENG/CHN/KOR)] / [Windows 10 IoT Enterprise 2016 LTSC 64-bit (JPN/ENG/CHN/KOR)] / [Windows 7 Professional SP1 for Embedded Systems 32-bit (JPN/ENG)] / [Windows 7 Professional SP1 for Embedded Systems 64-bit (JPN/ENG)]																							
Standard	CE Marking (EMC Directive Class A, RoHS Directive), FCC Class A, UKCA, VCCI Class A																							

* This product is a Built-to-Order (BTO) type in which the customer can select the CPU, memory, storage, OS, etc., at the time of order.

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