

A smart controller conceived by Contec Embedded Computer for Machine Control

EPC-4000 Series



EPC-4000P2 (2 slots)



EPC-4000P4 (4 slots)



EPC-4000 (No slots)



High-speed expansion slots

The P2 model featuring PCIe(x8)x2 slots and the P4 model featuring PCIe(x4)x4 slots with built-in low-latency Broadcom PCIe switches are both available. This makes it possible to select expansion cards for image processing, camera input, FPGA, NIC, and other purposes with no need to compromise on card selection.



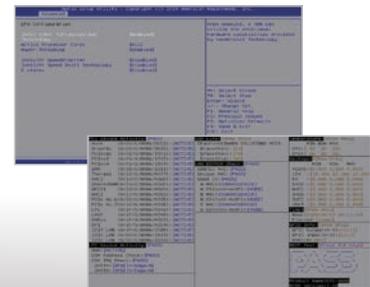
Highly noise-resistant design with separated FG and SG

Produced by motors and other rotating devices, as well as by high-power actuators, induction noise is the great enemy of electronic devices. Separating the FG (frame ground) and SG (signal ground) prevents malfunctions caused by induction noise from the FG.



Custom BIOS supporting real-time OS

The CPU cores/threads and onboard devices can be flexibly customized to match the OS. System availability is improved by original functions such as storage backup/restore and self-diagnosis functions.



High-power, Fan-cooled Type EPC-4000 Series



Ordering Information

Model	Expansion slots	CPU / Memory	Storage	OS
EPC-4000-DC3941E	No slots	Core i7-8700T 2.4GHz / 16GB	256GB SSD TLC	Windows 10 IoT Enterprise 2019 LTSC 64-bit (English/Chinese/Japanese/Korean)
EPC-4000-DC2841E		Core i5-8500T 2.1GHz / 8GB		
EPC-4000P2-DC3941E	2 slots (PCIe(x8))	Core i7-8700T 2.4GHz / 16GB		
EPC-4000P2-DC2841E		Core i5-8500T 2.1GHz / 8GB		
EPC-4000P4-DC3941E	4 slots (PCIe(x4))	Core i7-8700T 2.4GHz / 16GB		
EPC-4000P4-DC2841E		Core i5-8500T 2.1GHz / 8GB		

* Models with no OS installed are also available. Visit the Contec website for more information.

Specifications

Item	EPC-4000	EPC-4000P2	EPC-4000P4
CPU	Intel® Core™ i7-8700T Processor 2.4GHz, Intel® Core™ i5-8500T Processor 2.1GHz		
Chipset	Intel® Q370		
BIOS	AMI BIOS		
Security (TPM)	TCG TPM2.0		
Memory	Max16GB, 260pin SO-DIMM Socket x 2, DDR4-2666 SDRAM Non-ECC		
Graphics	Intel® HD Graphics 630 DVI-D x 1, DisplayPort x 1		
Audio	HD Audio compliant, LINE OUT x 1, LINE IN x 1, MIC IN x 1		
Storage (System)	SATA III 2.5" SSD 256GB (3D-TLC) or None		
CFast I/F	CFast Slot x 1ch, With anti-release mechanism		
LAN	1000BASE-T/100BASE-TX/10BASE-T RJ-45 connector x 3 Transmission speed : 1000M/100M/10M bps LAN-A, B: Intel I210AT Controller, LAN-C: Q370 embedded controller + PHY I219LM		
USB	USB 3.2 Gen2-compliant (10Gbps) x 6, USB 3.2 Gen1-compliant (5Gbps) x 2		
Serial	RS-232C 9pin D-SUB x 1 RS-232C/RS-422A/RS-485 (Switchable in BIOS settings) 9pin D-SUB x 1 Baud rate : 50 to 115,200bps (Programmable)		
Expansion Card Slot	No slots	PCI-Express(x8) slot x 2 (x16 mounted connector)*1	PCI-Express(x4) slot x 4*1
Hardware monitoring	Monitoring CPU temperature, fan speed, power voltage		
Watchdog timer	Software programmable, 255 level (1sec to 255sec) Time up allows reset		
Real Time Clock	Lithium backup battery life: 10 years or longer, The real-time clock is accurate within ±3 minutes (at 25°C) per month (CPU built-in RTC).		
Power Management	Power management setup via BIOS, Power On by Ring / Wake On LAN		
Rated Input Voltage	12 to 24VDC		
Range of Input Voltage	10.8 to 26.4VDC		
Power Consumption (Max.)	< With USB supply > 6.9 A (Max.) at 12 V input 3.5 A (Max.) at 24 V input < Without USB supply > 3.5 A (Max.) at 12 V input 1.8 A (Max.) at 24 V input	< USB with expansion slot supply > 14.5 A (Max.) at 12 V input 7.2 A (Max.) at 24 V input < USB, without expansion slot supply > 4.1 A (Max.) at 12 V input 2.0 A (Max.) at 24 V input	< USB with expansion slot supply > 16.1 A (Max.) at 12 V input 7.8 A (Max.) at 24 V input < USB, without expansion slot supply > 5.1 A (Max.) at 12 V input 2.2 A (Max.) at 24 V input
USB Supply Current	USB I/F +5V: 7.2A		
Capacity for power supply to the expansion card	None	+12V : 2.1A, +3.3V : 3A*4	+12V : 2.1A, +3.3V : 3A*4
Physical dimensions (mm/inch) *2	230/9.06(W) x 220/8.66(D) x 70/2.76(H)	230/9.06(W) x 220/8.66(D) x 109/4.29(H)	230/9.06(W) x 220/8.66(D) x 160/6.3(H)
Weight *3	2.8kg / 6.17lb (approx.)	3.4kg / 7.50lb (approx.)	4.1kg / 9.04lb (approx.)
Operating temperature	0 to 55°C / 32 to 131°F		
Standard	CCC *5, CE Marking (EMC Directive Class A, RoHS Directive), FCC Class A, UKCA, UL, VCCI Class A		

*1 Usable card dimension: Max. 176mm(L) x 110mm(H). *2 Not including the attachment fitting or protrusions. *3 The weight (which does not include accessories) may vary depending on the product configuration. *4 The total capacity for power supply to the expansion card of the expansion slot model (2 slots or 4 slots) must fall within 50 W (25W or less per slot). *5 Models without storage (no OS) are not covered by CCC.

Options

Product Name	Model	Description	Product Name	Model	Description
CFast Card	CFS-4GB-A	4GB (SLC)	Bracket	EPC-BKT	Bracket for EPC-4000 and 4000P2 Series
	CFS-8GB-A	8GB (SLC)			
	CFS-16GB-A	16GB (SLC)			
	CFS-32GBM-A	32GB (MLC)			
	CFS-16GBQ-A	16GB (Q-MLC)			

For installation on the wall and so on



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