Embedded PC with GPU Card for Edge AI/HPC Applications

EPC-C5000 Series

Case designed for easy AC cable routing

Side

Front

Model with built-in GPU card

Power Failure Protection System

Supports 10th-generation Intel® Core™ processors

Wide variety of Intel® Xeon W and Core i processors to choose from, including the Xeon W-1290TE

Equipped with a GPU card for advanced AI and image analysis

Selectable from NVIDIA GPU cards *Models without a GPU card are also available. Visit the Contec website for more information.
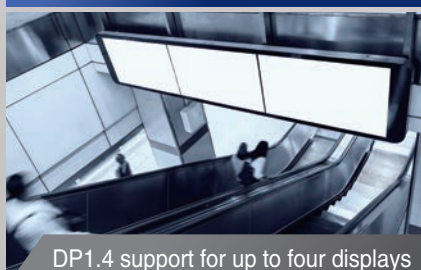
Long-term stable operation with Microsoft's latest OS

Equipped with Windows 10 IoT Enterprise 2021 LTSC and extended Microsoft support until January 2032

Edge AI	Signage Terminals	Machine Vision
GPU card included	DP1.4 support for up to four displays	PCIe(x16) Expansion Slot

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■ Ordering Information

Model	Slot	CPU	Memory	Storage	OS	GPU Card
EPC-C5060A-xxxxx	1×PCIe(x16)	Xeon W-1290TE	64GB / 32GB / 16GB / 8GB	Not available / SATA lll SSD (TLC) 1TB / 512GB / 256GB / 128GB SATA ll HDD 1TB M.2 SSD (TLC) 1TB / 512GB / 256GB / 128GB	Not available / Windows 10 IoT Enterprise 2021 LTSC 64-bit (English/Chinese/Japanese/Korean) / MIRACLE LINUX 9.0 (Japanese version only)	Not available / NVIDIA RTX A2000 12GB / NVIDIA T1000 8GB
EPC-C5020A-xxxxx		Core i7-10700TE				
EPC-C5010A-xxxxx		Core i5-10500TE				
EPC-C5060B-xxxxx	2×PCIe(x8)	Xeon W-1290TE				Not available
EPC-C5020B-xxxxx		Core i7-10700TE				
EPC-C5010B-xxxxx		Core i5-10500TE				

*xxxxxx varies depending on the details of the selection. Other CPU options are available. Visit the Contec website for more information.

■ Specifications

Item	Description
CPU[*1]	Intel® 10th Gen. Comet Lake-S Xeon® W / Core™ Processors（LGA1200) Xeon W-1290TE、Core i7-10700TE、Core i5-10500TE
Chip Set	Intel® W480E Express Chipset
BIOS	AMI BIOS
Security (TPM)	TCG TPM2.0
Memory[*1]	260pin DDR4 SO-DIMM Socket x 2 64GB / 32GB / 16GB / 8GB
Graphics Controller	Intel® UHD 610 & 630 (CPU integrated) VGA×1、DisplayPort 1.4×1、HDMI 1.4b×1 VGA:1920 x 1080 @ 60Hz、DisplayPort:4096 x 2160 @ 60Hz、HDMI:4096 x 2160 @ 60Hz
Audio	HD Audio compliant, LINE OUT x 1, LINE IN x 1, MIC IN x 1
Storage[*1]	SATA lll 2.5"SSD(TLC) 1TB / 512GB / 256GB / 128GB, SATA ll 2.5"HDD 1TB, M.2 2280 SATA SSD(TLC) 1TB / 512GB / 256GB / 128GB
LAN	1000BASE-T/100BASE-TX/10BASE-T RJ-45 connector x 3 LAN-A: Intel I219 Controller LAN-B, C: Intel I210 Controller
USB	USB 3.2 Gen2 (USB 3.1) × 6
Serial	RS-232C/RS-422A/RS-485 (Switchable in BIOS settings) 9pin D-SUB x 1 Baud rate: 50 to 115,200bps
General I/O	POWER switch signals
Expansion Card Slot	PCI-Express(x16) slot x 1 or PCI-Express(x8) slot x 2 Usable card dimension(mm/inch): Max. 167 / 6.57(L) x 68 / 2.68(H) Models equipped with a GPU card will come with an NVIDIA GPU card in the expansion slot.[*2*3]
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.
Power Management	Power management setup via BIOS, Power On by Ring / Wake On LAN, Supports ACPI Power management
Range of Input Voltage	100 to 240VAC (50/60Hz)
Power Consumption	At maximum load: 100 to 240VAC 2.4 to 1.2A At OS startup: 100 to 240VAC 0.5 to 0.4A
External Device Power Supply Capacity	USB 3.2 I/F: +5V 5.4A (6 x 900mA per port)
Capacity for power supply to the expansion card	+12V:5.5A、+3.3V:3A
Physical dimensions (mm/inch)	200 / 7.87(W) x 94 / 3.70(D) x 250 / 9.84(H) , Not including the attachment fitting or protrusions
Weight[*4]	Without expansion card 3.3kg / 7.28lb approx. With GPU card 3.6kg / 7.94lb approx.
Operating temperature	0 to 40℃ / 32 to 104°F
Standard	**CE Marking (EMC Directive Class A, RoHS Directive)[*5], FCC Class A, UKCA[*5], VCCI Class A**

*1 Other CPU options are available. Visit the Contec website for more information, including possible configurations.
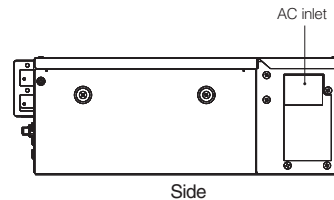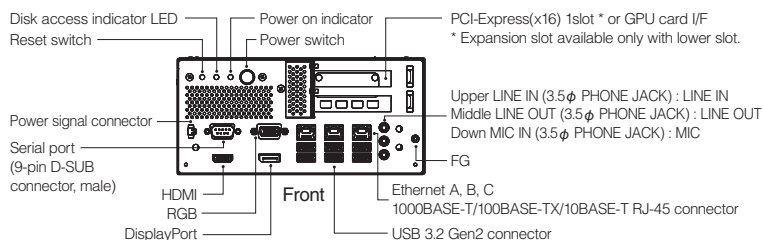*2 Visit the Contec website for information on selectable GPU cards. Refer to the NVIDIA website for detailed specifications.
*3 The warranty period of the pre-installed GPU cards conforms to the standard warranty period of the computer. For repair of the GPU cards, it may be replaced by refurbished cards.In case the GPU cards cannot be repaired by the maker or are difficult to obtain due to EOL, it will be replaced with an equivalent cards.
*4 The weight (which does not include accessories) may vary depending on the product configuration.
*5 Models equipped with a GPU card are not subject to CE/UKCA standards.

■ Component Name

Disk access indicator LED
Reset switch
Power on indicator
Power switch
PCI-Express(x16) 1slot * or GPU card I/F
* Expansion slot available only with lower slot.
AC inlet

Power signal connector
Serial port
(9-pin D-SUB connector, male)
HDMI
RGB
DisplayPort
Front
Upper LINE IN (3.5φ PHONE JACK) : LINE IN
Middle LINE OUT (3.5φ PHONE JACK) : LINE OUT
Down MIC IN (3.5φ PHONE JACK) : MIC
FG
Ethernet A, B, C
1000BASE-T/100BASE-TX/10BASE-T RJ-45 connector
USB 3.2 Gen2 connector
Side

Contec Global Network

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