

Compact and slim PC with extended RAS

Box Computer **BX-220**



Unique extended RAS functions for increased reliability

The unique RAS functions help speed up system recovery by recording OS boot failures, operation errors, abnormal temperatures, and other failures, as well as by predicting the end of life of parts, and performing OS reboots and other functions.



Ultra-thin design that enables installation in a wide variety of locations

Looking for slim design PC for a compact equipment?
Our BX-220 with 29mm (1.14inch) thickness is a perfect fit!



* mm/inch, No protrusions

Falling-off prevention tools and fixing clamps provided to avoid trouble caused by disconnected cable

BX-220D stays trouble-free, being equipped with USB removal prevention fitting and cable clamp for connectors with no locking mechanism, such as USB cable, and with hardware to properly mount and avoid falling out of CFast card.





Ordering Information

Model	CPU	Memory	CFast	OS
BX-220D-DC661211	Atom E3845 1.91GHz Quad-core	2GB ECC	32GB MLC	Windows Embedded Standard 7 32-bit (Japanese)
BX-220D-DC661212				Windows Embedded Standard 7 32-bit (English)
BX-220D-DC731211		4GB ECC	16GB SLC	Windows Embedded Standard 7 32-bit (Japanese)
BX-220D-DC731212				Windows Embedded Standard 7 32-bit (English)
BX-220D-DC761211			32GB MLC	Windows Embedded Standard 7 32-bit (Japanese)
BX-220D-DC761212				Windows Embedded Standard 7 32-bit (English)
BX-220D-DC781824 NEW			32GB Q-MLC	Windows 10 IoT Enterprise LTSB 2016 64bit (English/Chinese/Japanese/Korean) / Trellix
BX-220D-DC781724				
BX-220D-DC7D1724		8GB ECC	128GB TLC	Windows 10 IoT Enterprise LTSB 2016 64bit (English/Chinese/Japanese/Korean)
BX-220D-DC861724			32GB MLC	
BX-220D-DC8D1724			128GB TLC	

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

Specifications

		BX-220D-DCxxxxx
CPU		Intel® Atom™ Processor E3845 1.91GHz
BIOS		AMI BIOS
Memory		204 pin SO-DIMM socket×1, PC3-10600(DDR3L 1333) ECC BX-220D-DC6xxxxx: 2GB, BX-220D-DC7xxxxx: 4GB, BX-220D-DC8xxxxx: 8GB
System resolution	Analog RGB, DVI-D, DisplayPort	640×480 to 1920×1200 (16,770,000 colors)
RAS		WDT : Software programmable, 1sec to 255sec (Time up allows reset, interrupt, or external output), Remote reset: Input signal from external device
General-purpose I/O		Photocoupler insulation inputs/outputs (3 of each) (One output used for WDT external output, one input switched between remote reset or remote power on.)
Hardware monitoring		Monitoring CPU temperature, power voltage
RTC/CMOS		Lithium backup battery life: 10 years or more, The real-time clock is accurate within ±3 minutes (at 25°C) per month (US15WP integrated RTC)
Power Management		Power management setup via BIOS, Power On by Ring / Wake On LAN, Supports PC98/PC99 ACPI Power management
Interfaces	Display	DVI-I x 1 (29pin DVI-I connector), DisplayPort x1
	Audio	LINE OUT : 3.5φ Stereo mini jack, Full-scale output level 1.4Vrms (Typ.) MIC IN : 3.5φ Stereo mini jack, Full-scale input level 1.4Vrms (Typ.)
	CF card slot	CFast CARD Type I x 2 slots, bootable BX-220D-DC73xxxx: Built-in CFast card slot contains a CFast card (SLC, 16GB, 1 partition) ¹ BX-220D-DC66xxxx/BX-220D-DC76xxxx/BX-220D-DC86xxxx: Built-in CFast card slot contains a CFast card (MLC, 32GB, 1 partition) ¹ BX-220D-DC78xxxx: Built-in CFast card slot contains a CFast card (Q-MLC, 32GB, 1 partition) ¹ BX-220D-DC7Dxxxx/BX-220D-DC8Dxxxx: Built-in CFast card slot contains a CFast card (TLC, 128GB, 1 partition) ¹
	LAN ²	1000BASE-T/100BASE-TX/10BASE-Tx2 ports (RJ-45 connector), Intel® I210AT, Intel® I219LM, Wake On LAN support
	USB	USB3.0 compliant 1 port (TYPE-A connector x1), USB2.0 compliant 2 ports (TYPE-A connector x2)
	RS-232C	2 ports (9pin D-SUB connector [male])
	RS-422A/485/General-purpose I/O/RAS	1 port (15pin D-SUB connector [female])
	Power supply	Rated input voltage 12 to 24VDC ³ Range of input voltage 10.8 to 31.2VDC Power consumption (Max.) 12V 2.6A, 24V 1.5A External device power supply capacity CFast card slot: +3.3V: 1A(500mA×2) USB3.0 I/F: +5V: 0.9A (900mA×1) USB2.0 I/F: +5V: 1A (500mA×2)
	Operating temperature / Storage temperature	0 to 50°C (32 to 122°F) (When using 1000BASE-T: 0 to 45°C (32 to 113°F)) / -10 to 60°C (14 to 140°F)
	Humidity	10 to 90%RH (No condensation)
Physical dimensions (W x D x H)		178 x 115 x 29 mm (7.01 x 4.53 x 1.14 inch) (No protrusions)
Weight		approx. 0.8kg/1.76lb (Excluding attachment fittings)
Certification		CCC ^{4,5} , CE Marking (EMC Directive Class A, RoHS Directive), FCC Class A, UKCA, UL/c-UL, VCCI Class A

¹ The capacity of CFast is a value when 1GB is calculated by 1 billion bytes. The capacity that can be recognized from OS might be displayed fewer than an actual value.

² If you use the 1000BASE-T, be careful of the operating temperature. For more details on this, refer to chapter3, Installation Requirements.

³ Use a power cable shorter than 3m.

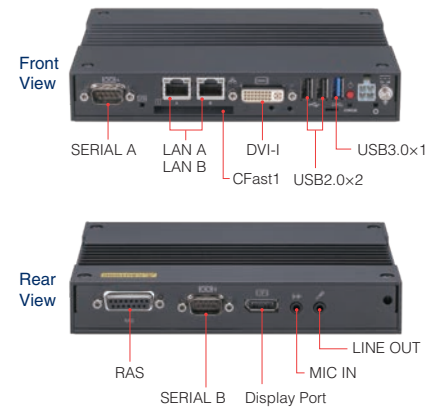
⁴ If consumers use the power adapter for charging, they should purchase the power adapter with CCC certification and the adapter shall meet the GB standard requirement

⁵ Models with no OS installed are excluded from CCC.

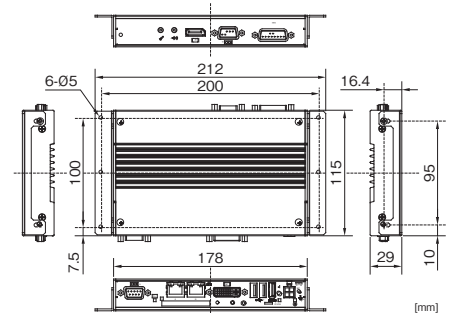
Options

Model	Description
ACAP19-01	AC Adapter (Input: 100 to 240VAC, Output: 19VDC 3.42A)
PWA-90AWD1	AC Adapter (Input: 100 to 240VAC, Output: 12VDC 7.5A)
PWA-65AWD1	AC Adapter (Input: 100 to 240VAC, Output: 12VDC 5.41A)
PWI-60D6D2	DC/DC Converter power supply for on-board vehicles
CFS-8GB-A	CFast Card 8GB(SLC)
CFS-16GB-A	CFast Card 16GB(SLC)
CFS-32GBM2-A	CFast Card 32GB(MLC)
CFS-16GBQ-A	CFast Card 16GB(Q-MLC)
CFS-32GBQ-B	CFast Card 32GB(Q-MLC) for wide temperature range

Component Name



Physical Dimensions



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