

The New Standard for Fanless Embedded PCs

Box Computer **BX-T210** Series

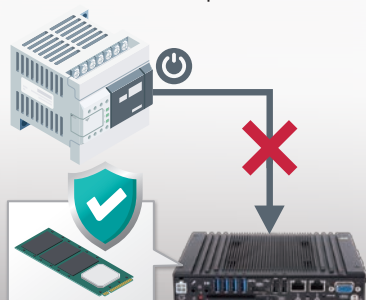


Wireless LAN and Bluetooth models available



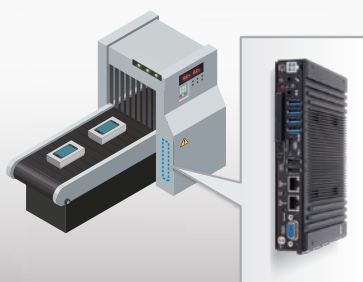
No need to worry about sudden power loss **Power failure protection system**

When used with the Windows lockdown function (UWF: Unified Write Filter), power can also be safely turned off without a shutdown process. BX-T210 has a ROM-based OS and dedicated SSD to protect the file system, even in the event of a sudden power failure.



Good fit for narrow spaces

Just 30.3 mm / 1.19-inch height. CONTEC's new "ultra-thin" category of embedded PCs. As a successor to the popular BX-956S, the BX-T210 is setting a new standard for ultra-thin, powersaving devices.



Thoughtfully designed expansion interfaces

Support for latest devices:
DisplayPort 1.2 / USB 3.2 Gen1 / Dual GbE / M.2
Support for legacy industrial devices:
Analog RGB / RS-232C / RS-485 / CFast



DisplayPort 1.2



USB 3.2 Gen1 × 4



Analog RGB



RS-232C / 485

Box Computer BX-T210 Series



Ordering Information

Model	Wireless LAN / Bluetooth	CPU / Memory	Storage	OS
BX-T210-J104L07U NEW	Not available	Atom x5-E3940 1.6GHz Quad-core / 8GB RAM	M.2 128GB SSD TLC	None (Linux Ubuntu is pre-installed for system check)
BX-T210-J104M05U NEW			M.2 64GB SSD MLC	
BX-T210-J104P03U NEW			M.2 32GB SSD iSLC	
BX-T210-J104L09W19 NEW			M.2 512GB SSD TLC	
BX-T210-J104L07W19			M.2 128GB SSD TLC	
BX-T210-J104M05W19	Available		M.2 64GB SSD MLC	Windows 10 IoT Enterprise 2019 LTSC 64-bit (English/Chinese/Japanese/Korean)
BX-T210-J104P03W19			M.2 32GB SSD iSLC	
BX-T210R-J104L09W19 NEW			M.2 512GB SSD TLC	
BX-T210R-J104L07W19			M.2 128GB SSD TLC	
BX-T210R-J104M05W19			M.2 64GB SSD MLC	
BX-T210R-J104P03W19			M.2 32GB SSD iSLC	

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

Specifications

Item	Description
CPU	Intel® Atom x5-E3940 Processor 1.60GHz
BIOS	AMI BIOS
Security	TCG TPM2.0
Memory	8GB (204-pin SO-DIMM), PC3L-12800 (DDR3L-1600)
Graphics Controller	Intel® HD Graphics 500 (CPU integrated)
System Resolution (Max.)	DisplayPort : 3840×2160 @ 60Hz, Analog RGB : 1920×1200 @ 60Hz
Audio	HD Audio compliant, LINE OUT x 1, MIC IN x 1
M.2 Card Slot	1 slot, M.2 2242 Key M, SATAIII 1 slot, M.2 2230/2280, Key E, PCIe (x2) x 1 port, USB2.0 x 1 port
CFast Card Slot	1 slot, CFast CARD Type I, bootable
LAN	Intel® I210IT controllers, 1000BASE-T/100BASE-TX/10BASE-T x 2 ports (RJ-45 connector), supports Wake On LAN
USB	USB3.2 Gen1 (USB3.0)-compliant x 4 ports, USB2.0-compliant x 2 ports
Serial	RS-232C/422/485 x 1 port, RS-232C x 1 port, Baud rate: 50 to 115,200bps
Wireless LAN, Bluetooth *1	IEEE 802.11ac/a/b/g/n, Bluetooth 4.2
General Purpose I/O	Non-isolated type : I/O 6 channels, switch signal
Hardware monitoring	Monitoring CPU temperature, board temperature, 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, Supports ACPI Power management
Rated Voltage Rang / Current Consumption	12 to 24VDC±10% 12V 3.6A, 24V 1.9A
Physical dimensions (W x D x H)	182 x 155 x 30.3 mm (7.17 x 6.1 x 1.19 inch), Not including the attachment fitting or protrusions
Weight	approx. 1.3kg (2.87lb), Not including the attachment fitting
Operating temperature *2	-20 to 50 °C (-4 to 122°F) without airflow ; -20 to 70°C (-4 to 158°F) airflow 0.7m/s
Standard	BSMI *1, CCC *1, CE Marking (EMC Directive Class A, RoHS Directive) *1, FCC Class A, KC *1, TELEC (set with the certified wireless module) *1, UKCA *1, UL/c-UL *1, VCCI Class A

*1 The wireless module & Bluetooth is set only in the wireless models. The wireless models are excluded from BSMI, CCC, CE Standard, KC, UKCA and c-UL.

*2 The ambient temperature should be 0°C and higher when using or storing the audio.

Component Name



- ① DC-IN
- ② Audio
- ③ USB 3.2 Gen1 x 4
- ④ CFast Card Slot
- ⑤ DisplayPort
- ⑥ USB 2.0 x 2
- ⑦ LAN A,B
- ⑧ Analog RGB
- ⑨ RS-232C/422/485
- ⑩ RS-232C
- ⑪ General Purpose I/O



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