

Expandability with a Space-saving Design

Expanded functions on our standard fanless PC

Box Computer **BX-M210** Series



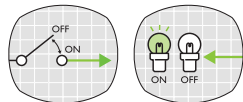
Isolated digital I/O model



Slot-in drive model

Isolated digital I/O model

The built-in isolated I/O (equivalent to the 32 inputs of the DI-32L-PE and the 32 outputs of the DO-32L-PE) is useful for signal input and output with relays, signal towers, and other light electrical equipment. This product can also be embedded in compact spaces.



64 isolated inputs and outputs

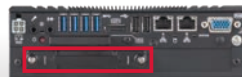


Slot-in drive model

The two built-in slot-in drives (a 2.5-inch SATA drive and a CFAST drive) reduce downtime during storage replacement.



2.5-inch SATA drive bay (with built-in 128 GB SSD)



Build your own dedicated controller!

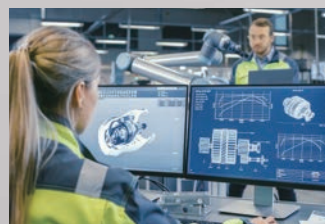
The built-in M.2 expansion system allows for flexible function expansion to match the application. With this system, Contec can create compact, dedicated controllers that cannot be made by combining peripherals. Please feel free to contact us for a custom order.



Embedding in checkout machines and similar devices



Use in production equipment in factories



Box Computer BX-M210 Series



Ordering Information

Model	Type	Wireless LAN / Bluetooth	CPU / Memory	Storage	OS
BX-M210-J2311	Isolated digital I/O model	Not available	Atom x5-E3940 1.6GHz Quad-core / 8GB RAM	M.2 128GB SSD (TLC)	Windows 10 IoT Enterprise 2019 LTSC 64-bit (English/Chinese/Japanese/Korean)
BX-M210-J2313		Available			
BX-M210-J2312	Slot-in drive model	Not available			
BX-M210-J2314		Available		SATA 128GB SSD (TLC)	

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

Specifications

Item	Isolated digital I/O model	Slot-in drive model
CPU	Intel Atom® x5-E3940 Processor 1.6GHz	
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:3840x2160 @ 60Hz, Analog RGB:1920x1200 @ 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 M.2 built-in SSD (TLC, 128GB, 1 partition)	—
	1 slot, M.2 2230/2280, Key E, PCIe (x1) x 1 port, USB2.0 x 1 port BX-M210-J2313 : M.2 Wireless LAN card built-in	1 slot, M.2 2230/2280, Key E, PCIe (x1) x 1 port, USB2.0 x 1 port BX-M210-J2314 : M.2 Wireless LAN card built-in
SATA	—	2.5 inches S-ATA disk Slot-in x 1 Serial ATA 3.0 compliant support 2.5 inches built-in SSD (TLC, 128GB, 1 partition)
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 4 ports	USB3.2 Gen1 (USB3.0)-compliant x 4 ports, USB2.0-compliant x 2 ports
Serial	RS-232C/422/485 x 3 ports, RS-232C x 1 port, Baud rate: 50 to 115,200bps	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 Opto-coupler isolated type : I/O 64 channels (input 32 channels, output 32 channels)	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 4.2A, 24V 2.2A	12V 3.3A, 24V 1.7A
Physical dimensions (mm/inch)	182/7.17(W) x 155/6.1(D) x 55/2.17(H), Not including the attachment fitting or protrusions	
Weight	1.8kg / 3.97lb (approx.), Not including the attachment fitting	
Operating temperature*2	-20 to 60°C / -4 to 140°F airflow 0.7m/s	
Standard	CE Marking (EMC Directive Class A, RoHS Directive)*1, FCC Class A, TELEC (set with the certified wireless module)*1, UKCA*1, VCCI Class A	

*1 The wireless module & Bluetooth is set only in the wireless models. The CE Marking and UKCA standards do not apply to the wireless models.

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

Options

Product Name	Model	Description
AC adapter	PWA-65AWD1	Switching AC adapter 12VDC 5.4A
Antenna extension cable	IPC-RPSMA-2	RP-SMA connector coaxial cable (2m)

* For details on the supported optional CFast cards and DIO cables, visit the Contec website.



Contec Global Network

U.S.A.

CONTEC AMERICAS INC.
3991 Sarno Road, Melbourne, FL 32934 U.S.A.
Tel. : +1-321-728-0172
e-mail : sales@us.contec.com

TAIWAN

TAIWAN CONTEC CO., LTD.
9FL, No. 738, Zhongzheng Road,
Zhonghe District, Xinbei 23511 TAIWAN
Tel. : +886-2-8227-8669

CHINA

CONTEC (SHANGHAI) CO., LTD
Room 1002, Qilai Building, No. 889,
Yishan Road, Xuhui District, Shanghai
200233 CHINA
Tel. : +86-21-5401-2288

SINGAPORE

SINGAPORE CONTEC PTE. LTD.
Blk 4010, Ang Mo Kio Ave. 10 #07-01
Techplace I, 569626 SINGAPORE
Tel. : +65-6459-1667

KOREA

CONTEC CO., LTD. KOREA BRANCH
19, Cheongmyeong-ro 21beon-gil,
Yeongtong-gu, Suwon-si, Gyeonggi-do,
16705 KOREA

INDIA

CONTEC CO., LTD. India Liaison Office
Unit No. DPT-134, First Floor,
DLF Prime Towers, Okhla Phase- 1,
New Delhi -110020, INDIA
Tel. : +91-11-40541327

<https://www.contec.com/>

Headquarters: CONTEC CO., LTD. (Japan)

3-9-31, Himesato, Nishiyodogawa-ku, Osaka 555-0025, Japan
Tel:+81-6-6477-5219 e-mail:intsales@jp.contec.com