

New High-Power PC with Wide Operating Temperatures

Fanless embedded computer with Xeon processor support

Box Computer

BX-M2510 Series



Xeon E-2278GEL

8GB ECC RAM

128GB SSD

TCG TPM2.0

Fast Boot



Supports Xeon E-2278GEL (8-core) processor for advanced parallel processing

Supports 9th-generation Intel® Core / Xeon E processors and available with ECC memory

New heat dissipation design for use in harsh temperature environments

Normal operation: -10 to 60°C, Air flow: 0.7 m/s With optional external fan: -10 to 70°C



With external fan installed

Supports high-capacity storage and mirroring (RAID1)

Two slot-in 2.5" drive bays

Embedded Applications



Enclosed/Temperature-Restricted Applications



BX-M2510 Series



Ordering Information

Model	CPU / Memory	Storage	OS
BX-M2510-J804L07W19	Xeon E-2278GEL / 8GB ECC RAM	128GB SSD (TLC)	Windows 10 IoT Enterprise 2019 LTSC 64-bit (English/Chinese/Japanese/Korean)
BX-M2510-J504L07W19	Core i5-9500TE / 8GB ECC RAM		
BX-M2510-J404L07W19	Core i3-9100TE / 8GB ECC RAM		
BX-M2510-J204L07W19	Celeron G4900T / 8GB ECC RAM		

* OS-less models are also available. Visit Contec website for more information.

Specifications

Item	Description
CPU	Intel® Xeon E-2278GEL Processor (2.0GHz 8 core / 16 thread) Intel® Core™ i5-9500TE Processor (2.2GHz 6 core / 6 thread) Intel® Core™ i3-9100TE Processor (2.2GHz 4 core / 4 thread) Intel® Celeron® G4900T Processor (2.9GHz 2 core / 2 thread)
Chip Set (PCH)	Intel® C246 Platform Controller Hub
BIOS	AMI BIOS
Security (TPM)	TCG TPM2.0
Memory	8GB (260-pin SO-DIMM), PC4-21300/19200 (DDR4-2666/2400) ECC
Graphics Controller	BX-M2510-J80xxxxxx, BX-M2510-J50xxxxxx, BX-M2510-J40xxxxxx: Intel® UHD Graphics 630 (CPU integrated) BX-M2510-J20xxxxxx: Intel® UHD Graphics 610 (CPU integrated)
System Resolution (MAX)	DVI-D 1920 x 1200 (1,677,000 colors)
	Analog RGB 1920 x 1080 (1,677,000 colors)
	DisplayPort 3840 x 2160 (1,677,000 colors)
Audio	HD Audio compliant, LINE OUT x 1, MIC IN x 1
Display	DVI-I x 1 (29-pin DVI-I connector), DisplayPort x 1
Storage	2.5 inches S-ATA disk Slot-in x 2, Serial ATA 3.0 compliant support, RAID1 (Mirror) support 2.5 inches built-in SSD (TCL, 128GB, 1 partition) ¹
LAN	Intel® I210AT controller x 1 Intel® I219LM controller x 1 1000BASE-T/100BASE-TX/10BASE-T RJ-45 connector x 2 (supports Wake On LAN)
USB	USB3.2 Gen2-compliant x 4 ports, USB2.0-compliant x 2 ports
Serial	RS-232C x 3ports, RS-232C/422/485 x 1port, Baud rate: 50 to 115,200bps
General I/O	Non-isolated type 6 isolated inputs and outputs, POWER switch signals
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
Power Supply	Rated Voltage Rang 12 to 24VDC±10%
	Current Consumption 12V 6.8A, 24V 3.4A
	External Device Power Supply Capacity SATA slot: +5V 2.0A (2 x 1,000mA per slot) USB3.2 Gen2 I/F: +5V 3.6A (4 x 900mA per port) USB2.0 I/F: +5V 1.0A (2 x 500mA per port)
Physical dimensions (mm/inch)	235 / 9.25(W) x 185 / 7.28(D) x 74 / 2.91(H), Not including the attachment fitting or protrusions
Weight	3.2kg / 7.05lb (approx.), Not including the attachment fitting
Operating temperature	-10 to 60°C / 14 to 140°F airflow 0.7m/s ² -10 to 70°C / 14 to 158°F without air flow (With optional external FAN unit installed)
Standard	CE Marking (EMC Directive Class A, RoHS Directive), FCC Class A, UKCA, VCCI Class A

¹ The capacity of disk in the OS pre-installed type 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 Continuous operation: -10 to 60°C, cold boot: 0 to 60°C.

Options

Model	Description
BX-FAN-06	DC FAN UNIT for box computer
PWA-90AWD1	Switching AC adapter 12VDC 7.5A
PWA-150AWD1	Switching AC adapter 12VDC 12.5A

* Refer to the Contec website for supported storage options.

Reliable operation with no shutdown required

When used with the Windows lockdown function (UWF: Unified Write Filter), power can also be safely turned off without a shutdown process. BX-M2510 has a ROM-based OS and dedicated SSD to protect the file system, even in the event of a sudden power failure.



Power Failure Protection System



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