© CONTEC

BOX Computer BX-M2510 Series



* Specifications, color and design of the products are subject to change without notice.

Features

Ninth-generation Xeon, Core i5, Core i3, Celeron processor adopted

This product adopts the CPU that saves power consumption and also provides high computing and graphic performances.

Embedded-type CPU makes the stable supply possible.

Operation capable in a wide temperature range between -10 and + 60°C

Achieves stable operation in a wide temperature range of -10 to +60°C

When using the optional fan (BX-FAN-06), stable operation is possible between -10°C and 70°C.

"Power failure protection system" features power-off without OS shutdown

Equipped with the "Power failure protection system" function that protects data and prohibits writing to storage in the event of power failure. Along with the lockdown (disk writing suppression) function of Windows IoT Enterprise, power can be safely turned off without a shutdown process. Moreover, file system damage or data damage caused by sudden power failure can be avoided.

High-security design contributes to a highly reliable system

The latest security functions such as TPM2.0 and Secure Boot, as well as CONTEC's original functions including the USB Boot Protect are provided. This product is designed with the high security required for industrial applications in mind.

CONTEC-customized BIOS provides useful utility

Useful utility of BIOS *2 customized by CONTEC is provided. The "CONTEC Fast Boot" achieves Windows startup in 10 seconds.*3

The "Disk Copy" function provides secure disk backup at the BIOS level, and also supports backup in file format or compressed file format. We also offer the CONTEC tools "BIOS update tool" for updating BIOS.*4

Fan-less design reduces maintenance work

The product is fan-less to ensure a totally spindle-less design that simplifies maintenance, relieving the concern about dust or foreign matter to get into the product. Moreover, along with minimized use of degrading parts greatly reduce maintenance work.

Major types of peripherals are supported with rich interfaces

It has a variety of extended interface such as DVI-I x 1, DisplayPort×1, 1000BASE-T x 2, USB3.2 Gen2 x 4, USB2.0 x 2, serial (RS-232C) x 4 and

It has two slot-in type of 2.5-inch SATA disk slots, providing the ability to separate data from the operating system, as well as the convenience of being able to use one slot for system startup and the other for maintenance or for taking home system logs or collected data.

This product is a fan-less and high-performance embedded type computer with the nine-generation Intel® CPU processor. The product offers high performance and low power consumption over a wide temperature range (-10°C to +60°C with an airflow of 0.7 m/s without a fan; -10°C to +70°C using the optional fan). The Xeon E-2278GEL, Core i5 9500TE, Core i3 9100TE or Celeron

Various interfaces such as dual LAN / USB3.2 Gen2 / DisplayPort / DVI-I / RS-232C / DIO and the slot-in 2.5 inches SATA hard disk bay unit being installed, this product is best suited to displaying images including digital signage. Embedded-type CPU has been adopted.

G4900T processor can be selected for the CPU.

The use of readily available parts ensures the product to be applied easily. In addition, Contec-customized BIOS allows support to be provided at the BIOS level.

- * The contents in this document are subject to change without notice.
- * Visit the CONTEC website to check the latest details in the document.
- * The information in the data sheets is as of November, 2024.

The attachment fitting and cable ties prevent problems caused by cable disconnections

For connectors with no locking mechanism such as USB cable, unnecessary trouble can be avoided by the use of cable ties for prevention of cable disconnection.

- *1 In an airflow environment of 0.7m/s
- *2 For details, see each setting in the [BIOS Setup] section.
- It is the actual measured value when Windows 10 and HORM function are enabled at the factory. Time may vary depending on configuration. Note that TXE, TPM, Network Stack, and SMART Self Test are not supported when the CONTEC Fast Boot is enabled
- Contact your retailer for more information

Included Items

		BX-M2510-Jx0xNA [Base Type]	BX-M2510-Jxxxxxxx [OS Pre-install Type]	
Na	me	Pcs.	Pcs.	
The Main Body		1	1	
The Attachmen	t Fittings	2	2	
The Attachmen	t Rubbers	4	4	
Cable Clamp fo	rUSB	1	1	
Screw for USB (Cable (M3×6)	1	1	
Screws For 2.5 I (M3 x 4)	nches HDD	8	4	
Washer Assemi (M3 x 8)	oled Screw	4	4	
Washer Assemi attachment (M		8	8	
Power Supply Connector	Power Connector	1	1	
Complete Set	Contact	4	4	
Cable Tie for US	SB Cable	1	1	
Cable Tie for Au	ıdio Cable	1	1	
DVI-Analog RG Adapter	B Conversion	1	1	
Product Guide		1	1	

Please apply for "Recovery Media" in advance if you are going to configure RAID with OS pre-installed type.

Supported OS

Windows 10 IoT Enterprise 2019 LTSC 64bit (Japanese / English / Chinese / Korean)

Intel, Xeon, Intel Core and Celeron are registered trademarks of Intel Corporation. MS, Microsoft and Windows are trademarks of Microsoft Corporation. Other brand and product names are trademarks of their respective holder.

Specifications

Function specification

CPU	Functio	n specificat			
Intel® Yacon E-2778GEI, Processor (2,00Hz)	CDLL	rtem	Description		
Dip Set	(cu		Intel® Xeon E-2278GEL Processor (2.0GHz) BX-M2510-J50xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
Memory BX-M2510-J800xxxxxx BX-M2510-J204xxxxxx BX-M2510-J800xxxx BX-M2510-J800xxx BX-M2510-J800xxx BX-M2510-J800xxx BX-M2510-J800xxx BX-M2510-J800xxx BX-M2510-J800xxx BX-M2510-J800xxx BX-M2510-J800xx BX	Chip Set		Intel® C246 Platform Controller Hub		
Se3B_260pin_SO_DMMN_PC4=21300_(DDN4=2666)4240] BCC	BIOS		BIOS (mfd. by AMI)		
Intel® U.H.D Gaphics 630 (CPU integrated)	Memory		BX-M2510-J804xxxxxx BX-M2510-J404xxxxx BX-M2510-J204xxxxxx BX-M2510-J204xxxxx BX-M2510-J204xxxxx BX-M2510-J204xxxxx BX-M2510-J204xxxxx BX-M2510-J204xxxxx BX-M2510-J204xxxxx BX-M2510-J204xxxxx BX-M2510-J204xxxx BX-M2510-J204xxxx BX-M2510-J204xxxx BX-M2510-J204xxxx BX-M2510-J204xxxx BX-M2510-J204xxx BX-M2510-J204xxx BX-M2510-J204xxx BX-M2510-J204xx BX-M2510-J204		
1280 x801,1280 x901,1280 x901,1280 x1024,1360 x768,1360 x768,1400 x1050,1440 x901,1600 x901,1600 x901,600 x200,160 x1200,1600 x1001,1600 x901,1600 x1001,1600 x901,1600 x901,1600 x1001,1600 x901,1600 x901,1600 x1001,1200 x1001,1200 x1001,1200 x1001,1200 x901,1200 x901,1200 x1001,1200 x1001,1200 x1001,1200 x1001,1200 x901,1200 x901,1200 x1001,1200 x1001	Graphics Controller		Intel® UHD Graphics 630 (CPU integrated) BX-M2510-J20xxxxxxx		
1,280 x 800 1,1280 x 900 1,1280 x 1024 1,1360 x 768 1,1366 x 768 1,1400 x 1,050 1,140 x 900 1,600 x 1,200 1,680 x 1,050 1,1920 x 1,080		DVI-D	1,280 x 800, 1,280 x 960, 1,280 x 1,024, 1,360 x 768, 1,366 x 768, 1,400 x 1,050, 1,440 x 900, 1,600 x 900, 1,600 x 1,200, 1,680 x 1,050, 1,920 x 1,080,		
1,280 x 800 1,280 x 90,1280 x 10,24 x 1360 x 788, 1,366 x 788, 1,400 x 1,050, 140 x 1900 x 901, 1600 x 1200, 1690 x 1,090 x 1792 x 1,340, 1856 x 1,392, 1920 x 1,200, 1920 x 1,200, 1920 x 2,460, 2048 x 1,152, 2,048 x 1,250, 2,048 x 1,536, 2,560 x 1,400, 2,560 x 1,600, 2,560 x 1,520, 2,560 x 2,048, 3,840 x 2,160 (1,6770,000 colors)		Analog RGB	1,280 x 800, 1,280 x 960, 1,280 x 1,024, 1,360 x 768, 1,366 x 768, 1,400 x 1,050, 1,440 x 900, 1,600 x 900, 1,600 x 1,200, 1,680 x 1,050, 1,920 x 1,080		
SATA 25 inches S-ATA disk Slot-in x 2 Serial ATA 3.0 compliant support, RAID1(Mirror) support BX-M2510-Joxot/N4:- BX-M2510-Joxot/N4:- BX-M2510-Joxot/N4:- BX-M2510-Joxot/N4:- BX-M2510-Joxot/N4:- SX-M2510-Joxot/N4:- SX-M2510-Joxot/N4:- SX-M2510-Joxot/N4:- Intel® 1210AT controller x 1 Intel® 1219LM controller x 1 1000BASE-T7/10BASE-T7/10BASE-T R1-45 connector x 2 (supports Wake On LAN) USB 3.2 Gen2 compliant x 4 ports USB 2.0 compliant x 2 ports S2-232C 3ports, RS-232C/422/485 1port, Baud rate: 50 - 115,200bps Security (TPM) TCG TPM2.0 Non-isolated type 6 isolated inputs and outputs, POWER switch signals Security (TPM) TCG TPM2.0 Monitoring CPU temperature, card temperature, power voltage Watchdog Timer (WDT) Software programmable, 255 level (1sec - 255sec), Time up allows reset. Lithium backup battery life: 10 years or more *2 The real-time clock is accurate within ±3 minutes (at 25°C) per month (C246 P built-in RTC). Power management Power management setup via BIOS Power On by Ring/Make On LAN Supports ACP Power management Power management LINE OUT: 3.5 p Stereo mini jack MIC IN1 3.5 p Stereo mini jack MIC IN1 3.5 p Stereo mini jack MIC IN1 3.5 p Stereo mini jack Serial ATA Slot Slot-in 2.5 inches SATA hard disk x 2 LAN 2-port (R1-45 connector) USB USB32 Gen2 compliant 4 port (TYPE-A connector) USB USB32 Gen2 compliant 4 port (TYPE-A connector) RS-232C/ 3-port (9pin D-SUB connector (male)) 12-24VDC ±10% *3 Range Current Consumption Rated Voltage SATA slot +5 V 2.0A (1,000mA x 2 per slot) USB32 Gen2 (PF +5 V 3.6A (900mA x 4 per port) USB32 Gen2 (PF +5 V 3.6A (900mA x 4 per port) USB32 Gen2 (PF +5 V 3.6A (900mA x 2 per port) USB32 Gen2 (PF +5 V 3.6A (900mA x 2 per port) USB32 Gen2 (PF +5 V 3.6A (900mA x 2 per port) USB32 Gen2 (PF +5 V 3.6A (900mA x 2 per port) USB32 Gen2 (PF +5 V 3.6A (900mA x 2 per port) USB32 Gen2 (PF +5 V 3.6A (900mA x 2 per port) USB32 Gen2 (PF +5 V 3.6A (900mA x 2 per		DisplayPort	1,280 x 800, 1,280 x 960, 1,280 x 1,024, 1,360 x 768, 1,366 x 768, 1,400 x 1,050, 1,440 x 900, 1,600 x 900, 1,600 x 1,200, 1,680 x 1,050, 1,792 x 1,344, 1,856 x 1,392, 1,920 x 1,080, 1,920 x 1,200, 1,920 x 1,440, 1,920 x 2,160, 2,048 x 1,152, 2,048 x 1,280, 2,048 x 1,536, 2,560 x 1,440, 2,560 x 1,600,		
Serial ATA 3.0 compliant support, RAID1(Mirror) support BX-M2510-JoxoNA:- BX-M2510-JoxoNA:- BX-M2510-JoxoNA:- BX-M2510-JoxoNA:- BX-M2510-JoxoNA:- BX-M2510-JoxoL07W19: 2.5 inches built-in SSD (TCL, 128GB, 1 partition) *1 Intel® 1210AT controller x 1 Intel® 1219AM controller x 1 INDOBASE-T/NIOBASE-T	Audio		HD Audio compliant, LINE OUT x 1, MIC IN x 1		
BX-M2510-JookLOTW19: 2.5 inches built-in SSD (TCL, 128GB, 1 partition) *1	SATA		2.5 inches S-ATA disk Slot-in x 2		
Intel® I					
Serial RS-23C 3ports, RS-232C/422/485 1port, Baud rate: 50 - 115,200bps General I/O Non-isolated type 6 isolated inputs and outputs, POWER switch signals Security (TPM) TCG TPM20 Hardware Monitoring Monitoring CPU temperature, card temperature, power voltage Watchdog Timer (WDT) Software programmable, 255 level (1sec - 255sec), Time up allows reset. Real Time Clock Lithium backup battery life: 10 years or more *2 The real-time clock is accurate within ±3 minutes (at 25°C) per month (C246 P built-in RTC). Power Management Power management setup via BIOS Power On by Ring/Wake On LAN Supports ACPI Power management Interface Display DVI-1 x 1 (29-pin DVI-I connector), DisplayPort x 1 LINE OUT: 3.5 p Stereo mini jack MIC IN: 3.5 p Stereo mini jack MIC IN: 3.5 p Stereo mini jack Serial ATA Slot Sot-in 2.5 inches SATA hard disk x 2 LAN 2-port (RI-45 connector) USB USB3.2 Gen2 compliant 4port (TYPE-A connector) USB2.0 compliant 2port (TYPE-A connector) RS-232C RS-232C 3-port (9pin D-SUB connector [male]) Power Rated Voltage Range Current Consumption External Device Power Supply Capacity Physical Dimensions (mm) Physical Dimensions (mm) USB20 (VF: +5V 1.0A (500mA x 2 per slot)) USB20 (VF: +5V 1.0A (500mA x 2 per port) USB20 (VF: +5V 1.0A (500mA x 2 per port) USB20 (VF: +5V 1.0A (500mA x 2 per port) USB20 (VF: +5V 1.0A (500mA x 2 per port) USB20 (VF: +5V 1.0A (500mA x 2 per port) USB20 (VF: +5V 1.0A (500mA x 2 per port) USB20 (VF: +5V 1.0A (500mA x 2 per port)	LAN		Intel® I219LM controller x 1 1000BASE-T/100BASE-TX/10BASE-T		
Baud rate: 50 - 115,200bps General I/O Non-isolated type 6 isolated inputs and outputs, POWER switch signals Security (TPM) TCG TPM2.0 Hardware Monitoring Monitoring CPU temperature, card temperature, power voltage Watchdog Timer (WDT) Software programmable, 255 level (1sec - 255sec), Time up allows reset. Real Time Clock Lithium backup battery life: 10 years or more *2 The real-time clock is accurate within ±3 minutes (at 25°C) per month (C246 P built-in RTC). Power Management Power management setup via BIOS Power On by Ring/Wake On LAN Supports ACPI Power management Interface Display DVI-I x 1 (29-pin DVI-I connector), DisplayPort x 1 LINE OUT: 35-pp Stereo mini jack MIC IN: 35-pp Stereo mini jack Serial ATA Slot Slot-in 2.5 inches SATA hard disk x 2 LAN 2-port (RJ-45 connector) USB USB3.2 Gen2 compliant 4port (TYPE-A connector) USB2.0 compliant 2port (TYPE-A connector) RS-232C/422/485 DIO 1 port (9pin D-SUB connector [male]) RS-232C/422/485 DIO 1 port (9pin D-SUB connector [female]) Power Supply Rated Voltage Range Current Consumption External Device Power Supply USB3.2 Gen2 I/F: +5V 3.6A (900mA x 2 per slot) USB3.2 Gen2 I/F: +5V 1.0A (500mA x 2 per port) USB3.2 Gen2 I/F: +5V 1.0A (500mA x 2 per port) USB3.2 Gen2 I/F: +5V 1.0A (500mA x 2 per port) USB3.2 Gen2 I/F: +5V 1.0A (500mA x 2 per port)	USB				
Security (TPM) TCG TPM2.0 Hardware Monitoring Monitoring CPU temperature, card temperature, power voltage Watchdog Timer (WDT) Software programmable, 255 level (1sec - 255sec), Time up allows reset. Real Time Clock Lithium backup battery life: 10 years or more *2 The real-time clock is accurate within ±3 minutes (at 25°C) per month (C246 Pobult-in RTC). Power Management Power management setup via BIOS Power On by Ring/Wake On LAN Supports ACPI Power management Interface Display DVI-I x 1 (29-pin DVI-I connector), Display/Port x 1 LINE OUT: 3.5 \(\phi\) Stereo mini jack MIC IN: 3.5 \(\phi\) Stereo mini jack MIC IN: 3.5 \(\phi\) Stereo mini jack Serial ATA Slot Slot-in 2.5 inches SATA hard disk x 2 LAN 2-port (RJ-45 connector) USB USB3.2 Gen2 compliant 4port (TYPE-A connector) RS-232C 3-port (9pin D-SUB connector [male]) RS-232C/ 422/485 DIO 1 port (9pin D-SUB connector [male]) Power Supply Rated Voltage Range 12 - 24VDC ±10% *3 Current Consumption Supply Capacity Physical Dimensions (mm) 235(W) x 185(D) x 74(H)	Serial				
Hardware Monitoring Monitoring CPU temperature, card temperature, power voltage Watchdog Timer (WDT) Software programmable, 255 level (1sec - 255sec), Time up allows reset. Real Time Clock Lithium backup battery life: 10 years or more *2 The real-time clock is accurate within ±3 minutes (at 25°C) per month (C246 P built-in RTC). Power Management Power management setup via BIOS Power On by Ring/Wake On LAN Supports ACPI Power management Interface Display DVI-I x 1 (29-pin DVI-I connector), DisplayPort x 1 LINE OUT: 3.5	General I/C)	Non-isolated type 6 isolated inputs and outputs, POWER switch signals		
Watchdog Timer (WDT) Software programmable, 255 level (1sec - 255sec), Time up allows reset. Real Time Clock Lithium backup battery life: 10 years or more *2 The real-time clock is accurate within ±3 minutes (at 25°C) per month (C246 P built-in RTC). Power Management Power management setup via BIOS Power On by Ring/Wake On LAN Supports ACPI Power management Interface Display DVI-I x 1 (29-pin DVI-I connector), DisplayPort x 1 Landio LINE OUT: 35φ Stereo mini jack MIC IN: 35φ Stereo mini jack Serial ATA Slot Slot-in 2.5 inches SATA hard disk x 2 LAN 2-port (RJ-45 connector) USB USB32 Gen2 compliant 4port (TYPE-A connector) USB2.0 compliant 2port (TYPE-A connector) USB2.0 compliant 2port (TYPE-A connector) RS-232C/42/485 3-port (9pin D-SUB connector [male]) DIO 1 port (9pin D-SUB connector [female]) Research 2port (9pin D-SUB connector [female]) Power Supply Rated Voltage Range 12 - 24VDC ±10% *3 Current Consumption External Device Power Supply SATA slot +5V 2.0A (1,000mA x 2 per slot) USB3.2 Gen2 Fr. +5V 3.6A (900mA x 4 per port) USB3.2 Gen2 Fr. +5V 3.6	Security (TF	PM)	TCG TPM2.0		
Real Time Clock Lithium backup battery life: 10 years or more *2 The real-time clock is accurate within ±3 minutes (at 25°C) per month (C246 P built-in RTC).	Hardware I	Monitoring	Monitoring CPU temperature, card temperature, power voltage		
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Power On by Ring/Wake On LAN Supports ACPI Power management	Real Time (Clock	Lithium backup battery life: 10 years or more *2 The real-time clock is accurate within ±3 minutes (at 25°C) per month (C246 PCH		
Audio LINE OUT: 3.5	Power Mar	nagement	Power On by Ring/Wake On LAN		
Audio LINE OUT: 35\(\phi\) Stereo mini jack	Interface	Display	DVI-I x 1 (29-pin DVI-I connector), DisplayPort x 1		
LAN 2-port (RJ-45 connector) USB USB32 Gen2 compliant 4port (TYPE-A connector) USB USB32 Gen2 compliant 4port (TYPE-A connector) RS-232C 3-port (9pin D-SUB connector [male]) RS-232C/ 422/485 1 port (9pin D-SUB connector [male]) DIO 1 port (9pin D-SUB connector [female]) Power Supply Rated Voltage Range 12 - 24VDC ±10% *3 Current Consumption 12V 6.8A, 24V 3.4A Consumption External Device Power Supply Capacity USB32 Gen2 I/F: +5V 3.6A (900mA x 2 per port) USB32 Gen2 I/F: +5V 1.0A (500mA x 2 per port) USB32 Gen2 I/F: +5V 1.0A (500mA x 2 per port) USB32 Gen2 I/F: +5V 3.6A (900mA x 2 per port) USB32 Gen2 I/F: +5V 1.0A (50			LINE OUT: 3.5φ Stereo mini jack		
LAN 2-port (RJ-45 connector) USB USB32 Gen2 compliant 4port (TYPE-A connector) USB USB32 Gen2 compliant 4port (TYPE-A connector) RS-232C 3-port (9pin D-SUB connector [male]) RS-232C/ 422/485 1 port (9pin D-SUB connector [male]) DIO 1 port (9pin D-SUB connector [female]) Power Supply Rated Voltage Range 12 - 24VDC ±10% *3 Current Consumption 12V 6.8A, 24V 3.4A Consumption External Device Power Supply Capacity USB32 Gen2 I/F: +5V 3.6A (900mA x 2 per port) USB32 Gen2 I/F: +5V 1.0A (500mA x 2 per port) USB32 Gen2 I/F: +5V 1.0A (500mA x 2 per port) USB32 Gen2 I/F: +5V 3.6A (900mA x 2 per port) USB32 Gen2 I/F: +5V 1.0A (50		Serial ATA Slot	Slot-in 2.5 inches SATA hard disk x 2		
USB USB32 Gen2 compliant 4port (TYPE-A connector) USB20 compliant 2port (TYPE-A connector) RS-232C 3-port (9pin D-SUB connector [male]) RS-232C/ 422/485 1 port (9pin D-SUB connector [male]) DIO 1 port (9pin D-SUB connector [female]) Power Supply Rated Voltage Range 12 - 24VDC ±10% *3 Current Consumption External Device Power Supply Capacity Physical Dimensions (mm) 235(W) x 185(D) x 74(H)					
RS-232C 3-port (9pin D-SUB connector [male])			USB3.2 Gen2 compliant 4port (TYPE-A connector)		
A22/485 DIO		RS-232C			
Rated Voltage 12 - 24VDC ±10% *3			1 port (9pin D-SUB connector [male])		
Range Current 12V 6.8A, 24V 3.4A		DIO	1 port (9pin D-SUB connector [female])		
Consumption			12 - 24VDC ±10% *3		
Device Power USB3.2 Gen2 I/F: +5V 3.6A (900mA x 4 per port) USB2.0 I/F: +5V 1.0A (500mA x 2 per port) USB2.0 I/F: +5V 1.0A (500mA x 2 per port)					
		Device Power Supply	USB3.2 Gen2 I/F: +5V 3.6A (900mA x 4 per port)		
(Not including the attachment fitting or protrusions)	Physical Di	mensions (mm)			

ltem	Description
Weight	3.2kg (approx.) (Not including the attachment fitting)

- *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 It is when the power is disconnected for 16 hours a day.
- $^{\star}3$ Use a power cable of 3 meters or shorter.

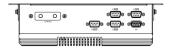
Installation Environment Requirements

Item		Description		
Operating Temperature		-10 - $+60$ °C, airflow 0.7 m/s *4 - 10 - $+70$ °C without air flow (With optional external FAN unit installed)		
Storage Temperatu	ure	-10 - +70°C		
Humidity		10 - 90%RH (No condensation)		
Floating Dust Particles		Not to be excessive		
Corrosive Gases		None		
Line-Noise Resistance	Line Noise	AC Line /±2kV *5, Signal Line/±1kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3)		
	Static Electricity Resistance	Contact discharge /±4kV (IEC61000-4-2 Level 2, EN61000-4-2 Level 2) Air discharge /±8kV (IEC61000-4-2 Level 3, EN61000-4-2 Level 3)		
Vibration Resistance (The product alone)	Sweep Resistance	10 - 57Hz /semi-amplitude vibration 0.15mm, 57 - 150Hz/2.0G 40minutes each in X, Y, and Z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant)		
Shock Resistance		10G half-sine shock for 11ms in X, Y, and Z directions (JIS C 60068-2-27-compliant, IEC 60068-2-27-compliant)		
Grounding		Class D grounding, SG-FG / continuity		
Standard		VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive), UKCA		

- *4 Continuous operation: -10 +60°C, cold boot: 0 +60°C.
- *5 $\,\,$ It is when the product is used with AC adapter PWA-90AWD1.

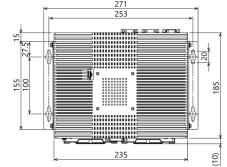
External Dimensions

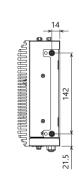
Without optional Fan Unit

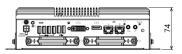












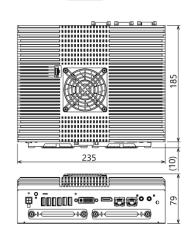
[mm]

BX-M2510 Series 2

With optional Fan Unit









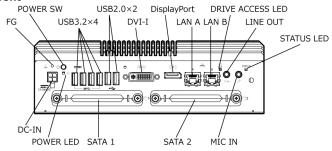
[mm]

Optional Products

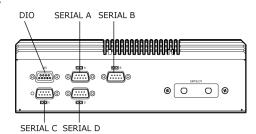
Item	Туре	Description
SSD (MLC)	SSD-32GS-2MP	2.5-inch SATA SSD 32GB
	SSD-64GS-2M	2.5-inch SATA SSD 64GB
	SSD-128GS-2MP	2.5-inch SATA SSD 128GB
	SSD-256GS-2MP	2.5-inch SATA SSD 256GB
SSD (TLC)	SSD-128GS-2TP	2.5-inch SATA SSD 128GB
	SSD-256GS-2TP	2.5-inch SATA SSD 256GB
	SSD-512GS-2TP	2.5-inch SATA SSD 512GB
	SSD-1TS-2TP	2.5-inch SATA SSD 1TB
AC adapter	PWA-90AWD1	Switching AC adapter 12VDC 7.5A
	PWA-150AWD1	Switching AC adapter 12VDC 12.5A
Fan unit	BX-FAN-06	DC FAN UNIT for box computer

Component Name

Front



Rear



Name	Function		
DC-IN	DC power connector		
POWER SW	PC Power switch		
POWER LED	Power ON display LED		
DRIVE ACCESS LED	Drive access display LED		
STATUS LED	Status LED		
LINE OUT	Line out (3.5φ PHONE JACK)		
MIC IN	Mic in (3.5φ PHONE JACK)		
LAN A	Ethernet 1000BASE-T/100BASE-TX/10BASE-T RJ-45 connector		
LANB	Ethernet 1000BASE-T/100BASE-TX/10BASE-T RJ-45 connector		
USB 3.2	USB 3.2 Gen2 port connector x4		
USB 2.0	USB 2.0 port connector x2		
SERIAL A	Serial port A connector (9-pin D-SUB male) (RS-232C/422/485)		
SERIAL B	Serial port B connector (9-pin D-SUB male) (RS-232C)		
SERIAL C	Serial port C connector (9-pin D-SUB male) (RS-232C)		
SERIAL D	Serial port D connector (9-pin D-SUB male) (RS-232C)		
DIO	GPIO port connector (9-pin D-SUB female)		
DVI-I	Display (29-pin female)		
DisplayPort	Display (20-pin female)		
SATA1	2.5-inch HDD/SSD slot		
SATA2	2.5-inch HDD/SSD slot		

Product Lineup

Туре	CPU	Memory	os	Storage device	
BX-M2510-J804NA	Xeon E-2278GEL processor	OCD.	None	None	
BX-M2510-J804L07W19		8GB ECC	Windows 10 IoT Enterprise 2019 LTSC	SSD(TLC) 128GB	
BX-M2510-J504NA	Core i5 9500TE processor	8GB	None	None	
BX-M2510-J504L07W19		Non ECC	Windows 10 IoT Enterprise 2019 LTSC	SSD(TLC) 128GB	
BX-M2510-J404NA	Core i3 9100TE processor	C :2.0100TF		None	None
BX-M2510-J404L07W19		8GB	Windows 10 IoT Enterprise 2019 LTSC	SSD(TLC) 128GB	
BX-M2510-J204NA	Celeron G4900T processor	ECC	None	None	
BX-M2510-J204L07W19			Windows 10 IoT Enterprise 2019 LTSC	SSD(TLC) 128GB	

BX-M2510 Series 3