

UBX-510

Edge Mini Server System

UBX-510SZ with Intel Xeon W Server-Grade Processors

UBX-510SL with 14/13/12th Gen Intel Core i7/i5/i3 processors



DeviceOn/iService

Features

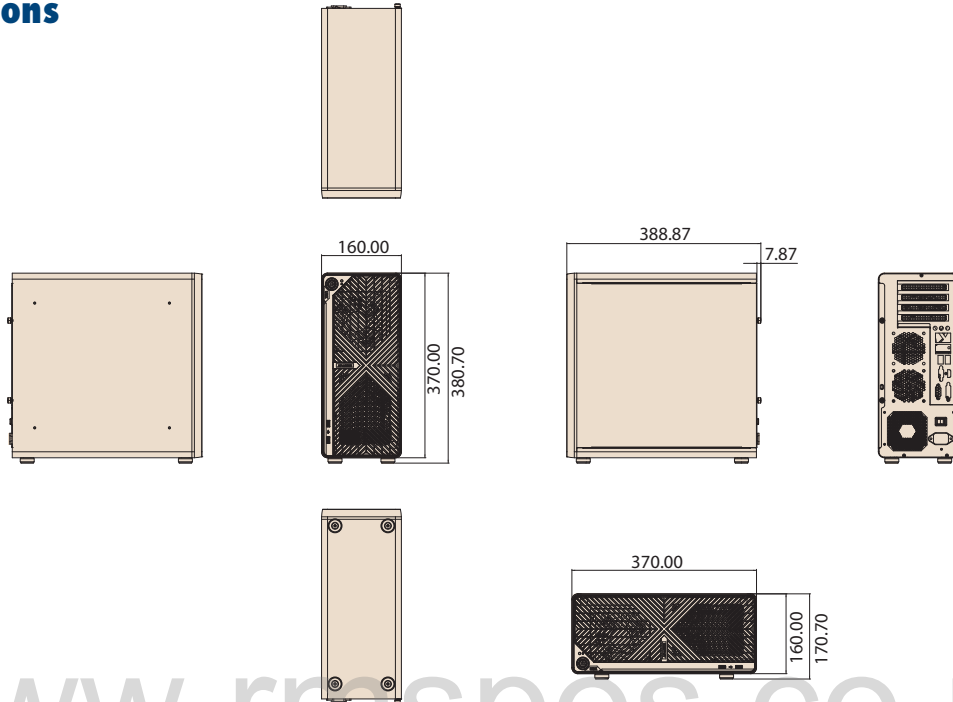
- **Server-Grade Computing:** Supports Intel® Xeon® W / Core™ processors with ECC memory for reliable edge performance.
- **High Expandability:** Compact tower supporting max. 6 x HDDs (RAID) and PCIe Gen5 for massive storage and speed.
- **AI Inference Ready:** Optimized thermal design for GPU cards in video analytics and AI inference at the edge.
- **True OOB Management:** Features IPMI support for remote monitoring, power control, and recovery independent of OS status.
- **Robust Connectivity:** Equipped with 4 x GbE LAN ports enabling network segmentation, teaming, and failover for secure data transmission.
- **Versatile I/O & Visuals:** Supports triple displays (HDMI/DVI/VGA) and massive connectivity with up to 13 x USB & 3 x COM ports.

Specifications

Model		UBX-510SZ	UBX-510SL
Processor System	CPU	Intel® Xeon® W-12xx and 10th Gen. Core™ i7/i5/i3 series processors (LGA1200 Socket)	14th/13th/12th Intel® Gen. Core™ i7/i5/i3 series processors (LGA1700 Socket)
	Chipset	Intel W480E	Intel W680
Memory	Total Slots	4 (dual channel)	4 (dual channel)
	Capacity	Maximum 128 GB	Maximum 128 GB
	Type Size	DDR4 ECC/non-ECC 2933/2666/2400 MHz UDIMM (288-pin)* 4 GB, 8 GB, 16 GB, 32 GB	DDR5 ECC*/non-ECC 4400**/4000/3600 MT/s UDIMM (288-pin) 8 GB, 16 GB, 32 GB
Storage	Drive Bay	Max. 3 x 3.5" internal (or Max. 6 x 2.5" internal with optional brackets)	Max. 3 x 3.5" internal (or Max. 6 x 2.5" internal with optional brackets)
	M.2	1 x M.2 2280 (PCIe/SATA)	1 x M.2 2280 (PCIe)
Graphics	Controller	Intel® HD Graphics**	Intel® HD Graphics
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed	1 GB maximum shared memory with 2 GB and above system memory installed
Front I/O		2 x USB 3.2 Gen1 Power button / LED indicator	2 x USB 3.2 Gen1 Power button / LED indicator
Rear I/O	USB	4 x USB 3.2 Gen2 Type-A	4 x USB 3.2 Gen2 Type-A
	Video Display	1 x HDMI 1 x VGA 1 x DVI-D	1 x HDMI 1 x VGA 1 x DVI-D
	COM	1 x DB9 (RS232)	1 x DB9 (RS232)
	LAN	4 x RJ-45 GbE	4 x RJ-45 GbE
	Audio	Mic-in, Line-out	Mic-in, Line-out
PCIe Expansion		1 x PCIe Gen3 x16 slot 2 x PCIe Gen3 x4 slot	1 x PCIe Gen5 x16 slot 2 x PCIe Gen4 x4 slot
On Board Connectors***		5 x FAN connector, 5 x SATA 3.0, SMBUS, 1 x RS232, 1 x chassis intruder, audio, 1 x USB 3.2 Gen 1 (2 ports), 3 x USB 2.0 (6 ports), 1 x USB Type-A	5 x FAN connector, 5 x SATA 3.0, SMBUS, 2 x RS232, 1 x chassis intruder, audio, 1 x USB 3.2 Gen 1 (2 ports), 2 x USB 2.0 (4 ports), 1 x USB 2.0 Type-A
Power Supply Unit		500 W 80+bronze PSU	500 W 80+bronze PSU
Environment	Operation Temperature	0 ~ 40°C	0 ~ 40°C
	Storage Temperature	-20 ~ 60°C	-20 ~ 60°C
	Vibration	0.5Grms	0.5Grms
	Shock	10G (with 11ms duration, half sine wave)	10G (with 11ms duration, half sine wave)
	Humidity	95% @ 40°C, non-condensing	95% @ 40°C, non-condensing
OS Support		Windows Server 2019/2022, Windows 10/11	Windows Server 2022, Windows 10/11
Dimensions (W x H x D)		160 x 370 x 380 mm	160 x 370 x 380 mm
Weight (kg)		Net weight : 6 / Gross weight : 7	Net weight : 6 / Gross weight : 7
Certifications		CE, FCC, UL, CCC, CB	CE, FCC, UL, CCC, CB
Others		Kensington lock, Equipotential terminal	Kensington lock, Equipotential terminal
DeviceOn/iService Remote Device Management	Operating System	Windows 10 IoT 2021	Windows 10 IoT 2021
	Common Controls (Reboot, Shutdown)	v	v
	Remote Desktop	v (via VNC)	v (via VNC)
	Audio Controls	v	v
	Connection Status	v	v
	Hardware Status	v	v
	Hard Disk Status	v	v
	Batch Operation Support	v	v
	OTA Storage Management	FTP	FTP
	OTA Software Updates	v	v
	Software Watchlist	v	v
Software Start/Stop	v	v	
Peripherals Watchlist	v	v	
Remarks		* ECC will not be supported when paired with Core i5/i7/i9 processors. ** Some Xeon processors have no graphics support. Please check Intel® specification for processor graphics availability. *** Please inquiry to the PM regarding the requirements for USB and RS232 from on-board connectors.	* ECC will not be supported when paired with Core i3 processors. ** 4400MT/s can only be supported with 1 DIMM per channel configuration (2 DIMMs in total). *** Please inquiry to the PM regarding the requirements for USB and RS232 from on-board connectors.

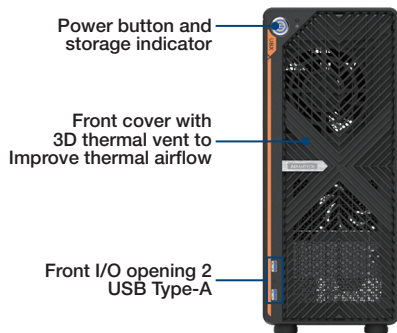
Dimensions

Unit: mm

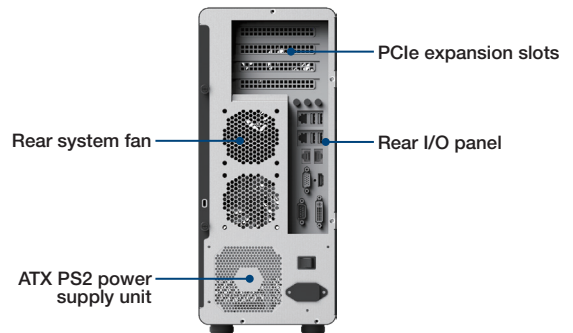


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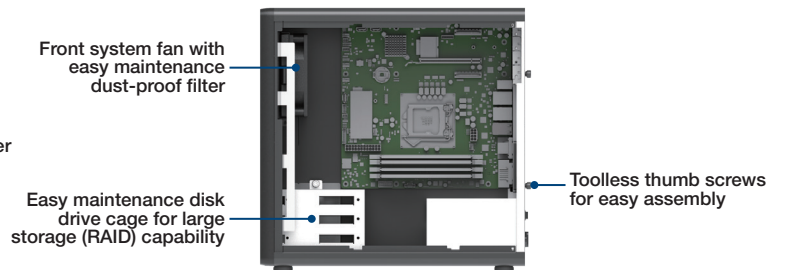
Front View



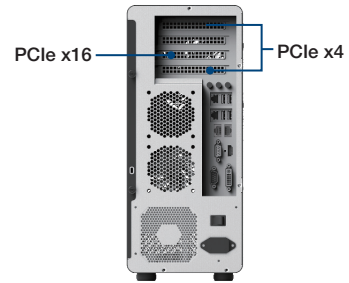
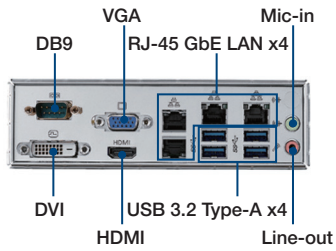
Rear View



Side View



UBX-510SZ/SL Rear I/O



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