UBX-250SL

Multi-functional Box Computer with Intel® socket-type LGA1700 Core™ processor support



DeviceOn/iService

Features

- Intel® socket-type (LGA1700) Core™ processors with Intel® Q670E chipset
- Modular, detachable I/O board design for rich and flexible I/O configurations
- Four display outputs: HDMI, DP++, and dual USB-C with DisplayPort
- Expansion support: 2 x M.2 2280 M-key and 1 x M.2 2230 E-key
- 2 x RS-232 ports with selectable 5V/1A or 12V/0.5A via jumper
- USB Type C Alt mode with up to 60W Power Delivery (USB-C 2)
- Intel® vPro™ (iSIPP) support for enterprise management
- Supports Advantech iBMC out-of-band power management via DeviceOn

Introduction

UBX-250SL is a versatile high-performance edge computing system designed for a wide range of commercial and industrial applications. With support for up to 330W system power budget, it is capable of driving high-power peripherals and external devices with stable operation. The platform offers rich and flexible I/O, including powered USB, powered COM, and USB-C power delivery up to 60W, enabling simplified integration with diverse equipment and sensors. Its modular I/O architecture supports scalable configuration, while advanced features such as dual-channel memory, NVMe SSD storage, IPMI (BMC) remote management, and lockable I/O enhance system reliability, manageability, and security—making UBX-250SL an ideal foundation for edge AI, automation, digital signage, kiosks, and general-purpose edge computing deployments.

Specifications

			Model	UBX-250SL-BBR00 (I/O Type A)	UBX-250SL-BBR10 (I/O Type B)
Core System			CPU Type	Intel® 12th/13th/14th Gen. Core™ Processor Intel® Core™ Series 2 Processor (BTL-S)	Intel® 12th/13th/14th Gen. Core™ Processor Intel® Core™ Series 2 Processor (BTL-S)
			Chipset	Q670E	Q670E
Memory			Socket	FCLGA1700	FCLGA1700
			Type	SODIMM DDR5	SODIMM DDR5
			Channel	2	2
			Max.	96GB	96GB
I/O	Front	USB A	USB2.0	2	2
		Indicator	Storage	1	1
	Rear	Display	USB3.2 Type C Alt Mode	2 (PD :USB-C 2 60W / USB-C 1 15W)	2 (PD :USB-C 2 60W / USB-C 1 15W)
			DP++ 1.4a, 8.1 Gb/s	1	1
			HDMI 2.1	1	1
		Audio	MIC-in/Speak out combo	1	1
		Terminal Block	GPIO x8	-	1
		P-USB	12V/1.5A	4	-
			24V/3A	1	-
		USB A	USB3.2 Gen.1, 5Gb/s	4	8
		Cash Drawer	RJ12	1	-
		Serial Port (No power output by default)	DB9_RS232/422/485 (Autoflow), 5V/1A or 12V/0.5A (via jumper)	2	4
			RJ50_RS232 only, 5V/1A or 12V/0.5A (via jumper)	2	2
		LAN1	RJ45 (2.5GbE)	1	1
		LAN2	RJ45 (GbE support Advantech iBMC)	1	1
		Power Connector	Power Input	4pin terminal block	4pin terminal block
Expansion			M.2 2280 M Key (NVME/SATA)	2 (CN6 PCIe Gen4x4, CN7 PCIe Gen3x4)	2 (CN6 PCIe Gen4x4, CN7 PCIe Gen3x4)
			M.2 2230 E Key (for WiFi/BT)	1	1

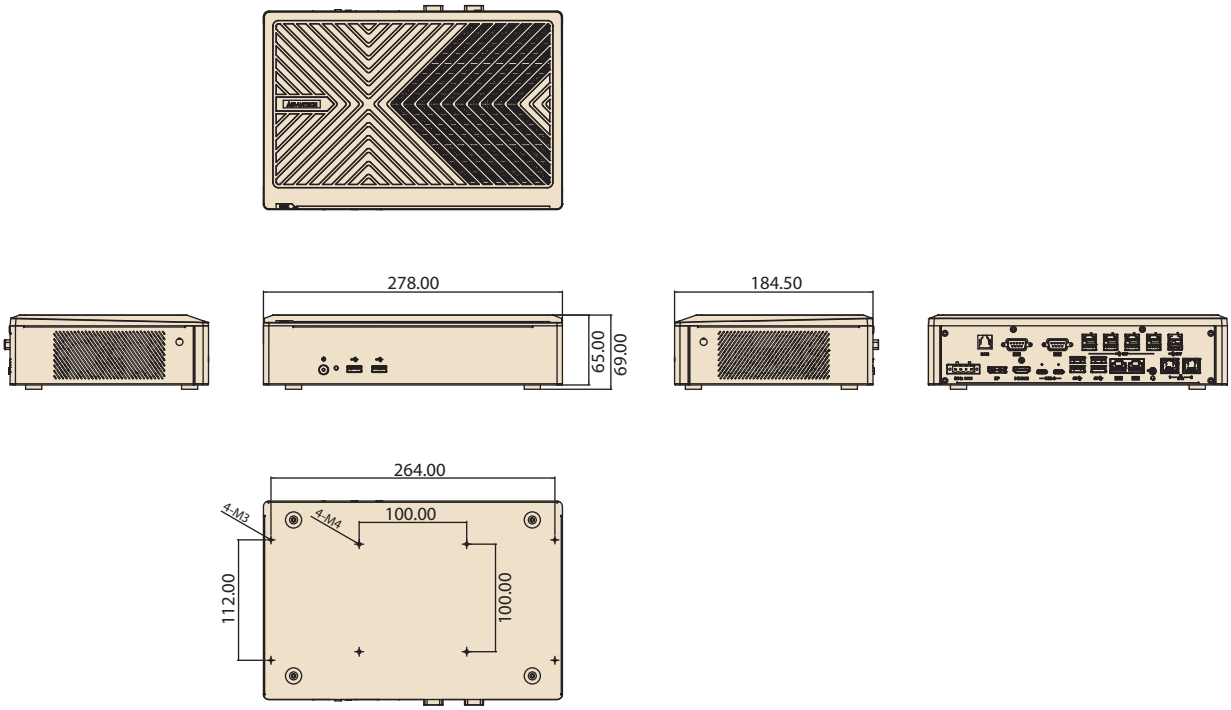
All product specifications are subject to change without notice.

Specifications (Cont.)

Power Source	Actual power	230W; 24Vdc@9.58A	230W; 24Vdc@9.58A
	Type	Power adapter	Power adapter
Operating System Support		Windows 10 LTSC 21H2 Windows 11 LTSC 24H2 Ubuntu 24.04	Windows 10 LTSC 21H2 Windows 11 LTSC 24H2 Ubuntu 24.04
Environment	Operating Temperature	0 ~ 40 °C	0 ~ 40 °C
	Storage Temperature	-20 ~ 60 °C	-20 ~ 60 °C
Physical	Dimensions (W x D x H)	278x184.5x65mm	278x184.5x65mm
	Weight	NW: 2.3kg	NW: 2.3kg
Security	TPM2.0	Yes	Yes
Software		SUSI, DeviceOn	SUSI, DeviceOn
Certificate			
Others		1).on board header for extension power button cable, 2).1x on board USB2.0 (5V) header	

Dimensions

Unit: mm



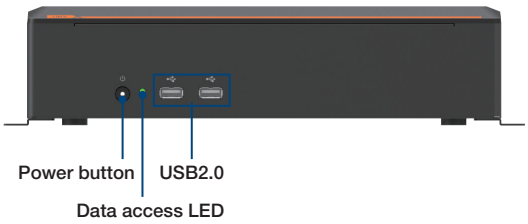
Ordering Information

P/N	Description
UBX-250SL-BBR00	UBX-250SL, Barebone, I/O Type A
UBX-250SL-BBR10	UBX-250SL, Barebone, I/O Type B

Package Content

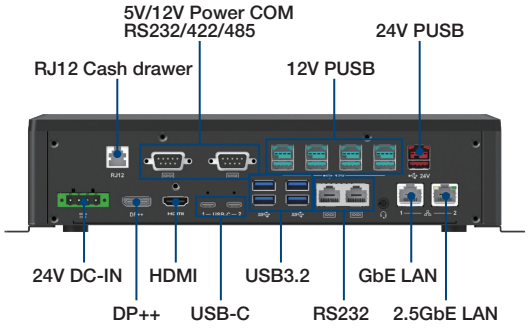
- 1 unit UBX-250SL Box Computer
- 1 pcs DC24V/9.58A, 230W Power adapter
- 1 set of Wall Mount Kit
- 1 pcs LGA1700 CPU cooler (Support CPU up to 65W)

Front View

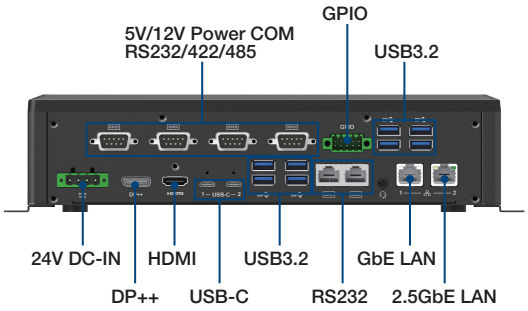


Rear View

I/O Type A



I/O Type B



Optional Accessories

Product	P/N	Description
Peripheral	UBX-250P-W00E	UBX-250SL, WiFi6/BT installation kit (EWM-W165)
Power Adapter	96PSA-A330W24P4-3	A/D 100-240V 330W 24V C14 TERMINAL BLOCK 4P
Power Cord	1702002600	Power Cord UL 3P 10A 125V 183cm
	1700018705	Power Cord EU 3P 10A 250V 183cm
	1700000596-11	Power Cord CCC 3P 10A 250V 183cm
	1700001714	Power Cord BSMI 3P 7A 125V 183cm
	1700032693-11	Power Cord BSI 3P 10A 250V 180cm (UK)
	1700000237	Power Cord PSE 3P 12A 125V 183cm
Operating System	TBD	WIN10 LTSC 21H2-ELE UBX-250SL V1.00 8MUI x64
	TBD	WIN10 LTSC 21H2-VLE UBX-250SL V1.00 8MUI x64
	TBD	WIN11 LTSC 24H2-ELE UBX-250SL V1.00 8MUI x64
	TBD	WIN11 LTSC 24H2-VLE UBX-250SL V1.00 8MUI x64
	TBD	Ubuntu 24.04 UBX-250SL V1.00