

UBX-210H

Multi-functional Box Computer with Intel 11th Gen Processor



DeviceOn/iService

Features

- Modular detachable I/O board features in rich and flexible I/O deployment
- Unique X-shaped fin design enhances system heat dissipation; the mounting direction is not limited by airflow
- Equipped with TPM2.0 chip for data encryption enhancement
- Two M.2 2280 SSD slots to support RAID 0/1 that offers a complete data backup solution
- Can be integrated with optional WiFi and Bluetooth combo module
- Support Windows 10 IoT LTSC, Windows 11 IoT, or Linux

Introduction

Advantech UBX-210H is a compact x86-based computer with detachable I/O boards that allow flexible I/O deployment. Rich I/O types and quantities fulfill different peripherals connections without any extension hub or converter. Moreover, the unique X-shaped fin design enables better system heat dissipation and allows horizontal and vertical setups. Such a compact design but powerful system performance satisfies retail demands, like POS systems and self-service kiosks in hypermarkets, quick-service restaurants, hotels, and public spaces.

Specifications

Model		UBX-210H
Processor		Celeron 6305E Core i3, 1115G4E Core i5, 1145G7E Core i7, 1185G7E
TPM		TPM 2.0
Memory		DDR4-3200 SO-DIMM *1, Up to 64GB (non-ECC)
Resolution		USB-C: support up to 8K UHD (7680 x 4320 @ 60Hz); HDMI 1 and 2: support up to 4K UHD (4096 x 2160@60Hz)
Front I/O	USB	USB3.2 Gen 2 Type A *2
	COM	COM *1 (RS232/422/485 by BIOS)
	Button	Power Pushbutton *1
	LED	Data access LED *1
Rear I/O	Video	USB-C *1 HDMI2.0b *2
	Audio	Line-out *1
	LAN	LAN 1: Intel i219; 10/100/1000 Mbps; LAN 2: Intel i226; up to 2.5 Gbps
	USB	USB 3.2 Gen 2 Type A *2 USB 2.0 Type A *2 24V Powered USB *1 12V Powered USB *2
	I/O Type A*	5V/12V Powered COM *3 (Setting via jumpers; default: 0V) 12V/24V RJ12 for Cash Drawer *1 (default: 24V) DC 24V Power DIN4 *1
	I/O Type B*	USB 2.0 Type A *4 COM *3 (RS232/RS422/RS485) DC 19V Power DIN4 *1
	Expansion	WiFi/BT
	Storage	M.2 M-Key 2280 *2
Mounting Option		Desktop/Wall/VESA
Wake on LAN		LAN 1
Intel vPro		Supported (Core i5, and i7 only)
Operating System		Windows 10 IoT LTSC
		Windows 11 IoT Linux
Environment	Operating Temperature	0~ 45 °C** with airflow 0.7m/s
	Storage Temperature	-20 ~ 60 °C
Physical	Dimensions (W x D x H)	234 x 145.77 x 58 mm
Software		SUSI, DeviceOn
Certificate		CE, FCC Class B, CCC, BSMI, RF RED, EN 62368, ErP, CB, UL, BIS

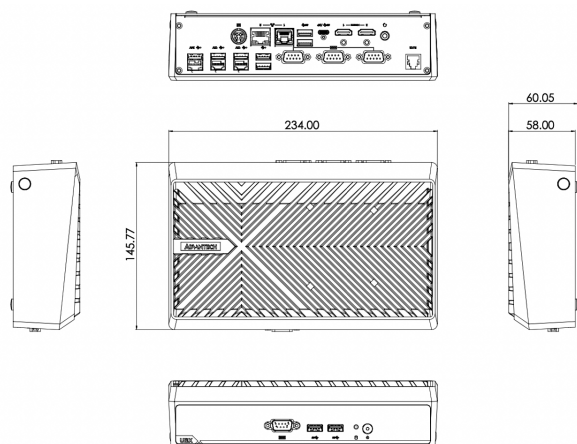
*Only one of I/O type A and I/O Type B can be installed.

** When using parts of powered USB ports, the maximum operating temperature is between 40 °C and 45 °C; if using all of the powered USB ports, the maximum operating temperature is 35 °C.

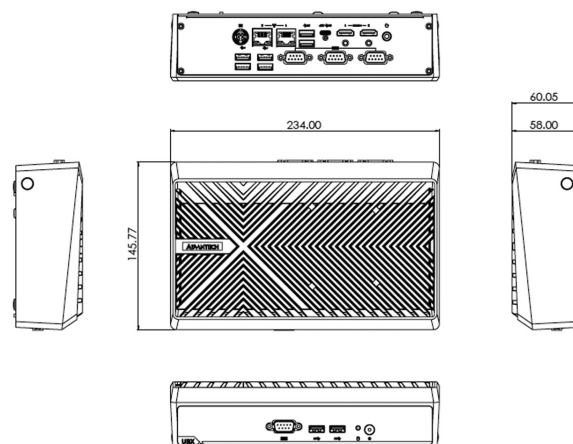
Dimensions

Unit: mm

UBX-210H with I/O Type A



UBX-210H with I/O Type B



Ordering Information

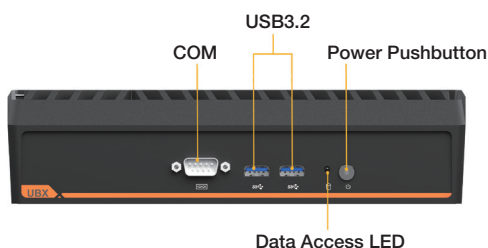
PN	Description
UBX-210H-BCL00	UBX-210H, Celeron 6305E, PUSB PCOM barebone
UBX-210H-BI300	UBX-210H Core i3 1115G4E, PUSB PCOM barebone
UBX-210H-BI500	UBX-210H Core i5 1145G7E, PUSB PCOM barebone
UBX-210H-BI700	UBX-210H Core i7 1185G7E, PUSB PCOM barebone
UBX-210H-BCL01	UBX-210H, Celeron 6305E, 8USB, 4COM barebone
UBX-210H-BI301	UBX-210H Core i3 1115G4E, 8USB, 4COM barebone
UBX-210H-BI501	UBX-210H Core i5 1145G7E, 8USB, 4COM barebone
UBX-210H-BI701	UBX-210H Core i7 1185G7E, 8USB, 4COM barebone
UBX-210H-UCL00	UBX-210H, Celeron 6305E, PUSB PCOM barebone, TW
UBX-210H-UI300	UBX-210H Core i3 1115G4E, PUSB PCOM barebone, TW
UBX-210H-UI500	UBX-210H Core i5 1145G7E, PUSB PCOM barebone, TW
UBX-210H-UI700	UBX-210H Core i7 1185G7E, PUSB PCOM barebone, TW
UBX-210H-UCL01	UBX-210H, Celeron 6305E, 8USB, 4COM barebone, TW
UBX-210H-UI301	UBX-210H Core i3 1115G4E, 8USB, 4COM barebone, TW
UBX-210H-UI501	UBX-210H Core i5 1145G7E, 8USB, 4COM barebone, TW
UBX-210H-UI701	UBX-210H Core i7 1185G7E, 8USB, 4COM barebone, TW

UBX-210H Barebone Package Content

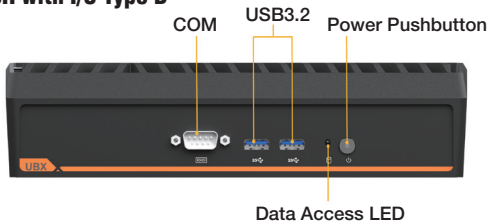
PN	Description
-	1 unit UBX-210H Multi-Functional Box Computer
XUSC365-ADP180WBB	1 pcs DC24V/180W Power Adapter (when configuring with the I/O Type A)
XUSM-FSP090-DBBN3	1 pcs DC19V/90W Power Adapter (when configuring with the I/O Type B)
-	1 set of Wall Mount Kit
1990028994N000	1 pcs Thermal Pad for DDR4 Memory
1990028994N000	2 pcs Thermal Pad for SSD

Front View

UBX-210H with I/O Type A

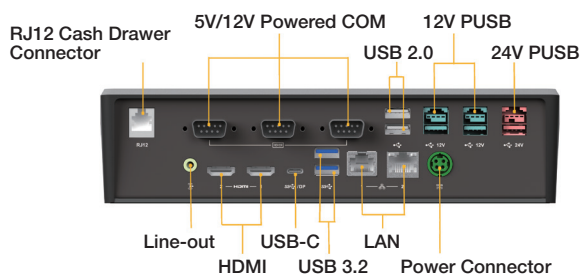


UBX-210H with I/O Type B

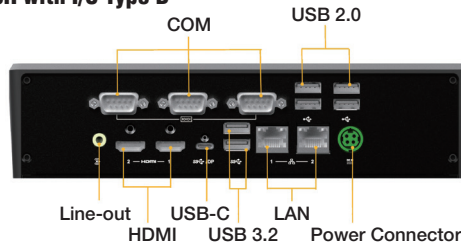


Rear View

UBX-210H with I/O Type A



UBX-210H with I/O Type B



Optional Accessories

Product	P/N	Usage	Description
WiFi, BT Combo Module, antenna	UBX-200P-W01E	1	UBX-210, WiFi6/BT (EWM-W179) installation kit
Power Cord	1700001524	1	3P UL 10A 125V 180cm(American)
	170203183C	1	3P EU (WS-010+083) 183CM(European)
	1700018553	1	Power Cord SAA 3P 2.5A 250V 183cm(Australia)
	1700025113-11	1	Power Cord ISI 3P 2.5A 250V 180cm(India)
	1700018409	1	Power Cord KCC 2P 2.5A 250V 183cm(Korea,Russia)
	1700024849-01	1	Power Cord BSMI 3P 2.5A 125V 180cm(Taiwan)
	170203180A-01	1	Power Cord ASTA 3P 2.5A 250V 183cm
	1700008921	1	3P 1.8M PSE 7A 125V(Japan)
Thermal Pad	1700019146	1	Power Cord CCC 3P 2.5A 250V 183cm
	1990040887N000	1	CPU HS Contact Top Cover
	1990018997N100	1	CPU PAD
	1990028994N000	1	DDR4 Memory
	1990028994N000	1 or 2	M.2 Storage
Operating System	1990031603N000	1	WiFi
	20708WX1ES0026	1	Img WIN10 LTSC 2021-ELE UBX-210H V1.03 7MUI x64
	20708WX1VS0029	1	Img WIN10 LTSC 2021-VLE UBX-210H V1.03 7MUI x64
	20708WX1HS0020	1	Img WIN10 LTSC 2021-HLE UBX-210H V1.03 7MUI x64
	20708WLE1S0017	1	WIN11 LTSC_24H2_ELE UBX-110/210H(Celeron) V1.01 7MUI
	20708WL1S0021	1	WIN11 LTSC_24H2_VLE UBX-110/210H(i3i5) V1.01 7MUI
	20708WLH1S0013	1	WIN11 LTSC_24H2_HLE UBX-110/210H(i7) V1.01 7MUI
	20708U22DS0002	1	UBX-210H Ubuntu 22.04 V1.01
20708U24DS0010	1	UBX-210H_110H Ubuntu 24.04 V1.0.1	