

IPC-320

**Compact Size Tower IPC with 12th/13th/14th
Gen Intel® Core™ i CPU Socket
(LGA 1700) and 250W PSU**

NEW



Features

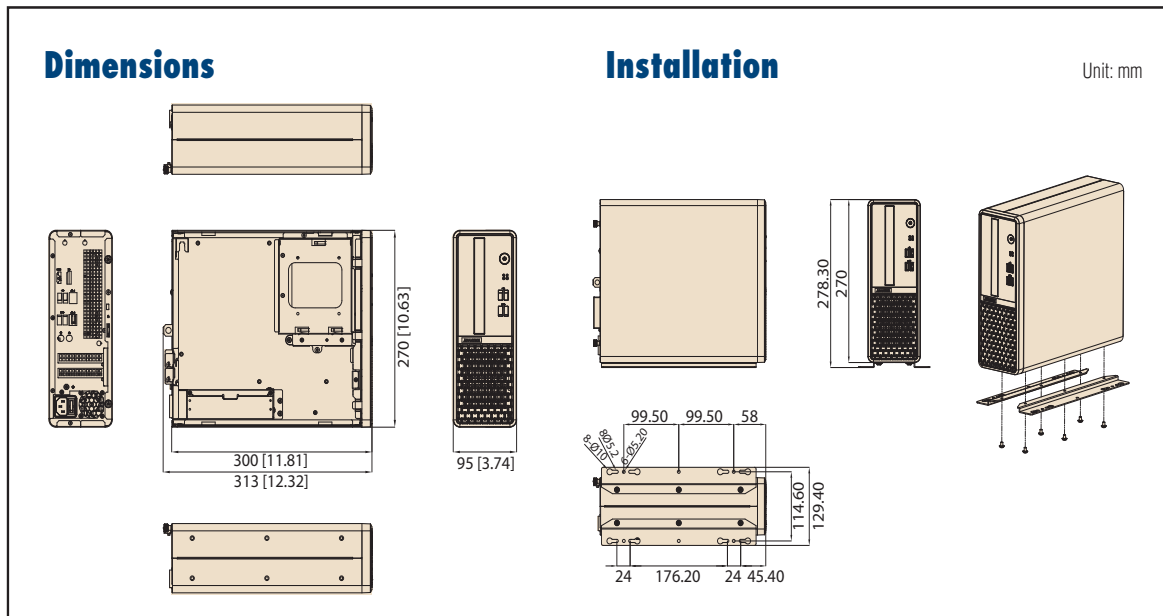
- Intel® 12th / 13th / 14th generation Core™ i9/i7/i5/i3 & Pentium®/Celeron® processor with H610E chipset
- Design for operator IPC and application with space limit
- Dual USB 3.2 and dual USB 2.0 port on both front and rear side
- Dual Independent Display (HDMI/ DP)
- 2 low profile Expansion slots (PCIe x16 and PCIe x4)
- Built in with 250W 12V and 5V output only single power supply
- Qualified for Amazon Web Service(AWS) IoT Greengrass



Specifications

14th Generation Processors	CPU	i9-14900	i9-14900T	i7-14700	i7-14700T	i5-14500	i5-14500T	i5-14400	i5-14400T	i5-14400F	i3-14100	i3-14100T	300	300T
	P-core Base Frequency	2.0 GHz	1.1 GHz	2.1 GHz	1.3GHz	2.6 GHz	1.7 GHz	2.5 GHz	1.5 GHz	2.5 GHz	3.5 GHz	2.7 GHz	3.9 GHz	3.4 GHz
	L3 Cache	36 MB	36 MB	33 MB	33 MB	24 MB	24 MB	20 MB	20 MB	20 MB	12 MB	12 MB	6 MB	6 MB
	Cores	24	24	20	20	14	14	10	10	10	4	4	2	2
	Processor Base Power	65 W	35 W	65 W	35 W	65 W	35 W	65 W	35 W	65 W	60 W	35 W	46 W	35 W
13th Generation Processors	CPU	i9-13900(E)	i9-13900TE	i7-13700(E)	i7-13700T(E)	i5-13500(E)	i5-13500T(E)	i5-13400(E)	i3-13100(E)	i3-13100T(E)				
	P-core Base Frequency (Up to)	2.0 GHz	1.1 GHz	2.1 GHz	1.4 GHz	2.5 GHz	1.6 GHz	2.5 GHz	3.4 GHz	2.5 GHz				
	L3 Cache	36 MB	36 MB	30 MB	30 MB	24 MB	24 MB	20MB	12 MB	12 MB				
	Cores	24	24	16	16	14	14	10	4	4				
	Processor Base Power	65 W	35 W	65 W	35 W	65 W	35 W	65W	60 W	35 W				
12th Generation Processor	CPU	i9-12900(E)	i9-12900TE	i7-12700(E)	i7-12700TE	i5-12500(E)	i5-12400	i5-12500TE	i3-12100(E)	i3-12100TE	Pentium G7400E	Pentium G7400TE	Celeron G6900E	Celeron G6900TE
	Base Frequency	2.4GHz	2.3GHz	2.1 GHz	1.4 GHz	2.9 GHz	2.5GHz	1.9 GHz	3.2 GHz	2.1 GHz	3.6 GHz	3.0 GHz	3.0 GHz	2.4 GHz
	L3 Cache	30MB	30MB	25MB	25MB	18 MB	18 MB	18 MB	12 MB	12 MB	6 MB	6 MB	4 MB	4 MB
	Cores	16	16	12	12	6	6	6	4	4	2	2	2	2
	TDP	65W	35W	65W	35W	65W	35W	35W	65W	35W	46W	35W	46W	35W
	Socket	LGA 1700												
	Temperature	0 – 40 °C												
	Chipset	H610E												
	BIOS	AMI 256MB SPI Flash												
	Expansion slot	PCIeX4 (Gen 3) PCIeX16 (Gen 4)												
Memory	Technology	Dual Channel (Non-ECC) DDR4 3200 MHz												
	Max Capacity	64 GB												
Graphics	Sockets	2 x 288-pin DIMM												
	Controller	Chipset integrated Intel HD Graphics												
Ethernet	VRAM	Shares system memory is subjected to OS												
	Interface	10/100/1000/2.5G Mbps (2.5G for LAN2 only)												
SATA	Controller	GbE LAN1: Intel I219-V; GbE LAN2: Intel I226-V												
	Connector	2 x RJ-45												
Front Panel I/O and Miscellaneous	Max. Data Transfer Rate	600 MB/s												
	Channel	3												
Rear I/O	USB	4 (2 x USB 3.2 Gen1 and 2 x USB 2.0)												
	LED Indicators	PWR, HDD												
Internal connectors	HDMI	1 (Resolution up to 4096 x 2160 @ 60Hz)												
	DP 1.2	1 (Resolution up to 4096 x 2304 @ 60Hz)												
Drive bay	Ethernet	2												
	USB	4 (2 x USB 3.2 Gen 1, 2 x USB 2.0)												
Cooling	Audio	2 (Line-out , Mic-in)												
	USB type A	1												
System security monitoring	SATA	3												
	M.2	M key(link x2)												
Physical Characteristics	mSATA	1												
	Slim Optical Drive	1												
EMC Emission Class	3.5"	1 (For single 2.5" or 3.5" HDD/SSD, no need 989K008734 bracket) (For dual 1.96mm 2.5" HDD/SSD, order 989K008734 bracket)												
	Fan	NA (Optional as 98R)												
Environment	Air filter	NA (Optional as 98R)												
	Temperature	Operating 0 – 40 °C Non-Operating -20 – 60 °C												
System security monitoring	Humidity	85% RH@ 40 °C, non-condensing 95% RH @ 60 °C, non-condensing												
	Vibration (5-500Hz)	1 Grms 2 G												
Physical Characteristics	Shock	10G (with 11ms duration, hal sine wave)												
	Chassis intrusion switch (Optional)													
EMC Emission Class	Padlock hoop													
	Kensington cable lock slot													
Physical Characteristics	Dimension (W x H x D)	95 x 270 x 300 mm (3.74 x 10.63 x 11.81 inch)												
	Weight	3.306 kg (7.289 lb)												
EMC Emission Class	EMI class B													

IPC-320



Front View



- Slim ODD opening
- Power on/off switch
- LED indicators (PWR / HDD)
- USB 2.0 x 2
- USB 3.2 x 2

Rear View



- Dual displays (DP and HDMI)
- USB 2.0 x 2
- USB 3.2 x 2
- Line-out, Mic-in
- Low profile expansion slots (PCIe x16 and PCIe x4)
- 250W 12V and 5Vsb output single power supply

Inside View



- Intrusion switch (optional)
- AIMB-308, Intel 12th / 13th / 14th gen proprietary motherboard
- Drive bay for 3.5" HDDx1 or 2.5" HDDx1^{Note1}

Ordering Information

*Note 1: Choose convert bracket 989K008734 to have 2x2.5" HDD installed.

Part number	Compatible motherboard	Compatible CPU cooler	HDD / SSD bay	Power supply wattage
IPC-320-25A	AIMB-308H-00A1	1970005436T001	1 x 3.5" or 2 x 2.5" (T:9.6 mm)	250W

Part number	Chipset	PCIex16	PCIex4	SATA	GbE	USB 3.2	USB 2.0	mSATA	M.2
AIMB-308H-00A1	H610E	1	1	3	2	2 (front) 2 (rear)	2 (front) 2 (rear) 1 (internal type A)	1	M key (link x 2)

Packing List

IPC-320

Item	Description	Qty
IPC-320	Compact tower computer chassis	1
	Screws	one bag
1960005359T005	Mounting bracket	a pair
1700018785-11	SATA power cable for storage	1
96PS-A250WFXB12	250W (12V and 5Vsb output only) single power supply	1

AIMB-308H

Item	Description	Qty
AIMB-308	AIMB-308H proprietary motherboard	1
2041030800	Start up Manual for AIMB-308	1
1700018971	SATA data cable 15 cm	1

Optional Accessories

Part number	Description
1970005436T001	CPU cooler LGA1700 for IPC-320
98R13200001	Fan kit (including 8 cm fan, fan cable, fan filter, fan guard, screws)
98R13200002	IPC-320 CPU cooler fan guide
1700018785-11	SATA power cable 35cm for storage
1700023646-01	SATA power cable 30cm for Slim ODD
989K008734	Convert frame bracket to fix two 2.5" HDDs/SSDs in a 3.5" drive space
1700033647-01	Intrusion switch (Case open) cable
PCA-TPMSPI-00A1	TPM2.0 module via SPI interface

* Note: Use recommend CPU for stable system thermal efficiency

* Note: Always order 98R13200001 (Fan kit) with installed add-on card application.

Embedded OS

Item	Description
20706WX1HS0046	img W10 21HL AIMB-308H 64b 21H2 ENU
20706WX1VS0046	img W10 21VL AIMB-308H 64b 21H2 ENU
20706WX1ES0046	img W10 21EL AIMB-308H 64b 21H2 ENU
20706WLH1S0030	img W11 24HL AIMB-308H 64b 24H2 ENU
20706WLH1S0030	img W11 24VL AIMB-308H 64b 24H2 ENU
20706WLE1S0030	img W11 24EL AIMB-308H 64b 24H2 ENU

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