

# AIS-2225 Series

Mini-ITX Fanless Comet Lake-S Platform H410  
LGA1200 for Intel 10<sup>th</sup> Core i9/i7/i5/i3 CPU  
VGA/HDMI/DP, 2LAN, 3COM, 8USB, DC-IN



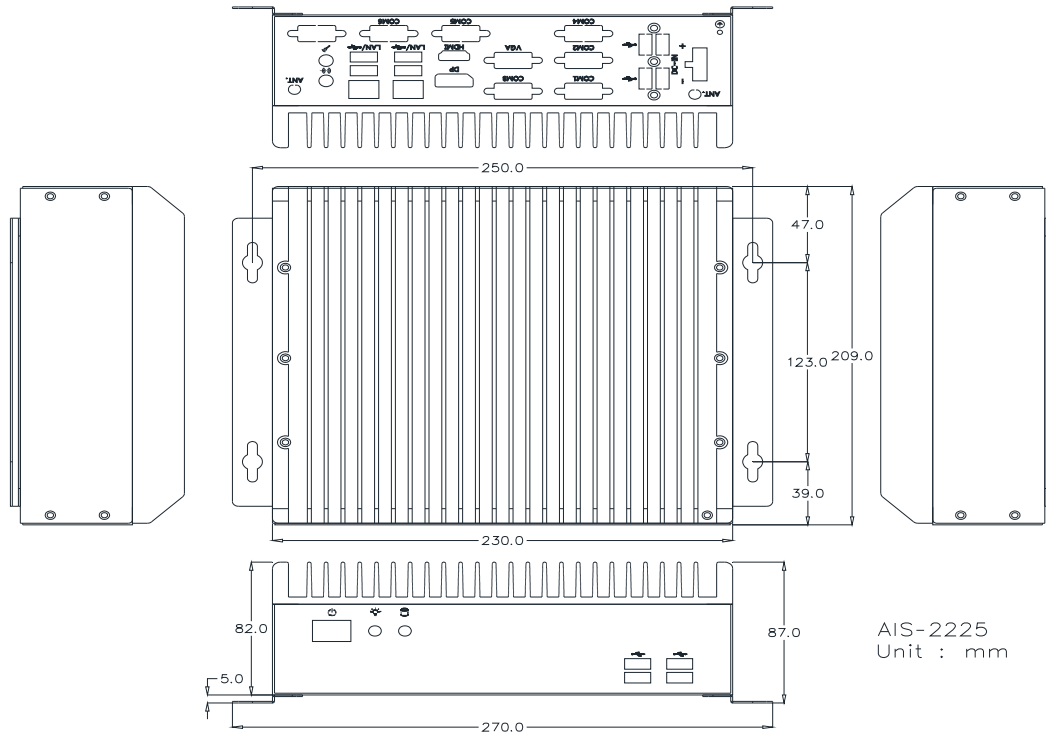
## Features

- Fanless Mini-ITX system with Intel H410 Chipset, supports Socket LGA-1200 Intel 10<sup>th</sup> Core i9/i7/i5/i3 Processors
- Dual Channel DDR4, 2 x SO-DIMM, up to 64GB system memory
- Dual display VGA/HDMI/DP, Dual LAN by Intel I219V, I210
- 3x COM (COM1/2 by RS-232/422/485)
- 2x USB3/USB2 on rear, 4x USB 2.0 on front (option 12USB)
- 2x 2.5" HDD space, easy access
- DC 12V ~ 24V input with short circuit protection
- 0°C ~ 50°C harsh operation environment

## Specifications

AIS-2225 Series Key Features		AIS-2225-9E-M0-H00P0	AIS-2225-7E-M0-H00P0	AIS-2225-5E-M0-H00P0
Processor System	CPU (Comet Lake-S)	i9-10900TE	i7-10700TE	i5-10500TE
	Cache / Core	20MB, 10-Core/20-Thread	16MB, 8-Core/16-Thread	12MB, 6-Core/12-Thread
	Base / Max Frequency	1.8GHz / 4.6GHz	2.0GHz / 4.4GHz	2.3GHz / 3.7GHz
	TDP	35W		
Expansion Slot	Chipset	Intel H410		
	M.2 (KEY M)	1 x M.2 (2242/2260/2280) with PCIe x4		
Memory	M.2 (KEY E)	1 x M.2 (2230) with PCIe x1, USB 2.0 for Wireless		
	Specification (SO-DIMM)	2 x Dual Channel DDR4-2933 MHz SO-DIMM		2 x DDR4-2666 MHz
Graphics	Max. Capacity	Up to 64 GB system memory		
	VGA	Supports resolution up to 1920x1200 @ 60Hz		
	HDMI	HDMI 1.4, maximum resolution up to 4096x2160 @ 30Hz		
Ethernet	DP	DisplayPort 1.4, DP++, maximum resolution up to 4096x2160 @ 60Hz		
	Interface Controller	Dual GbE, 1 x Intel I219V, 1 x Intel I210 with 10/100/1000 Mbps		
SATA	Connector	2 x RJ-45		
	SATA 3	4 x SATA3 ( 6.0 Gb/s)		
System Rear I/O	VGA	1 x VGA(DB15)		
	HDMI	1 x HDMI		
	DP	1 x DP		
	Ethernet	2 x RJ45		
	USB (IMB I/O shield)	2 x USB 3.0, 2 x USB 2.0, optional extra 4 x USB 2.0		
	Serial (IMB I/O shield)	3 x COM (COM1/2 by RS-232/422/485, COM3 by RS-232 only)		
System Storage	Audio	1 x Audio ports (Mic-in, Line-out)		
	HDD Driver Space	2 x HDD Space for two 2.5" HDD/SSD		
Optional Features on Rear I/O	USB 2.0	4 x USB 2.0 by an internal USB 2.0 HUB		
	GPIO	1 x DB-9 or DB-15 for 4 x GPI + 4 x GPO by inquiry		
	COM4/5/6	3 x DB9 for COM4/COM5/COM6 by inquiry		
System Front Bezel	Power On-Off Switch	1 x Soft switch		
	Power LED	1 x LED for system power status		
	HDD LED	1 x LED for HDD data access status		
	USB 2.0	4 x USB 2.0		
Operation System	Windows 10	Win10 64-bit IoT Ent 2016 LTSC or 2019 LTSC		
Watchdog Timer	Output and Interval	System reset, programmable 1-255 sec/min; 1 sec. or 1min. / step		
Environment	System Power	DC Input 1 x 2-pin phoenix connector for DC 12V ~ 24V input with short circuit protection		
	Operating Temperature	0 ~ 50°C ( 32°F ~ 122°F )		
	Air Flow Condition	50 ~ 55°C ( 122°F ~ 131°F ) with 0.7m/s air flow		
Physical Size	Storage Temperature	-40 ~ 85°C ( -40°F ~ 185°F )		
	Dimensions	230mm(W) x 209mm(D) x 82mm(H)		
Packing Size	Dimensions	310mm(W) x 310mm(D) x 160mm(H)		
Weight	N.W. / G.W.	4Kg / 4.5.Kg		
Certifications	EMC	N/A		
	LVD	N/A		

## Dimension Drawing



## Ordering Information

Part Number	CPU	VGA/HDMI/DP	GbE	USB 3.0	USB 2.0	COM	DDR4 DRAM	M.2	SSD/HDD
AIS-2225-9E-M0-H00P0	i9-10900TE	1/1/1	2	2	6/10	3/6	Option	Option	Option(single)
AIS-2225-7E-M0-H00P0	i7-10700TE	1/1/1	2	2	6/10	3/6	Option	Option	Option(single)
AIS-2225-7E-M16-H1TP0	i7-10700TE	1/1/1	2	2	6/10	3/6	16GB	Option	SATA HDD 1TB
AIS-2225-5E-M0-H00P0	i5-10500TE	1/1/1	2	2	6/10	3/6	Option	Option	Option(single)
AIS-2225-9E-M0-R00P0	i9-10900TE	1/1/1	2	2	6/10	3/6	Option	Option	Option(Dual)
AIS-2225-7E-M0-R00P0	i7-10700TE	1/1/1	2	2	6/10	3/6	Option	Option	Option(Dual)
AIS-2225-5E-M0-R00P0	i5-10500TE	1/1/1	2	2	6/10	3/6	Option	Option	Option(Dual)

## Optional Items

Part Number	Description
SODIMM-DDR4-4GB/8GB/16GB	204-Pin SODIMM DDR4-2133, 4GB/8GB/16GB
SA-H1T	2.5" SATA HDD 1TB, WD, 7200RPM
SA-S64L/S12L/S25L/S64D/S12D/S25D	2.5" SATA SSD 64GB/128GB/256GB MLC, 2.5" SATA SSD 64GB/128GB/256GB 3D-TLC
M2-M64D(2242)/N12D(2280)	M.2 SATA3 2242 64GB 3D-TLC/ M.2 2280 128GB 3D-TLC (B-KEY)
M2-O64L(2242)/P12L(2280)	M.2 SATA3 2242 64GB MLC/ M.2 2280 128GB MLC (B-KEY)
M2-Q12D(2242)/R12D(2280)	M.2 NVMe Gen3x4, 2242 128GB 3D-TLC / M.2 NVMe Gen3x4 2280 128GB 3D-TLC(M-KEY)
AC-9260	M.2 2230 (E-KEY) Wi-Fi Module, Intel AC9260 802.11abgn + Bluetooth 5.0, dual band 2T2R
AIS-WM-BK	AIS Chassis Wall Mount Bracket Kits, Black, with Screws L=178mm
DHAN3-60W-2P	AC-DC 60W Adapter, 90V-264Vac input by C14 socket, DC 12V@5A output with 2-pin phoenix connector