

AIS-2031 Series

Mini-ITX Fanless Box PC Coffee Lakes-S H310
Intel LGA-1151 Core i7/i5/i3 CPU, VGA/HDMI/DP
2LAN,4COM, 4USB3/8USB2, DC 12/19/24V Input



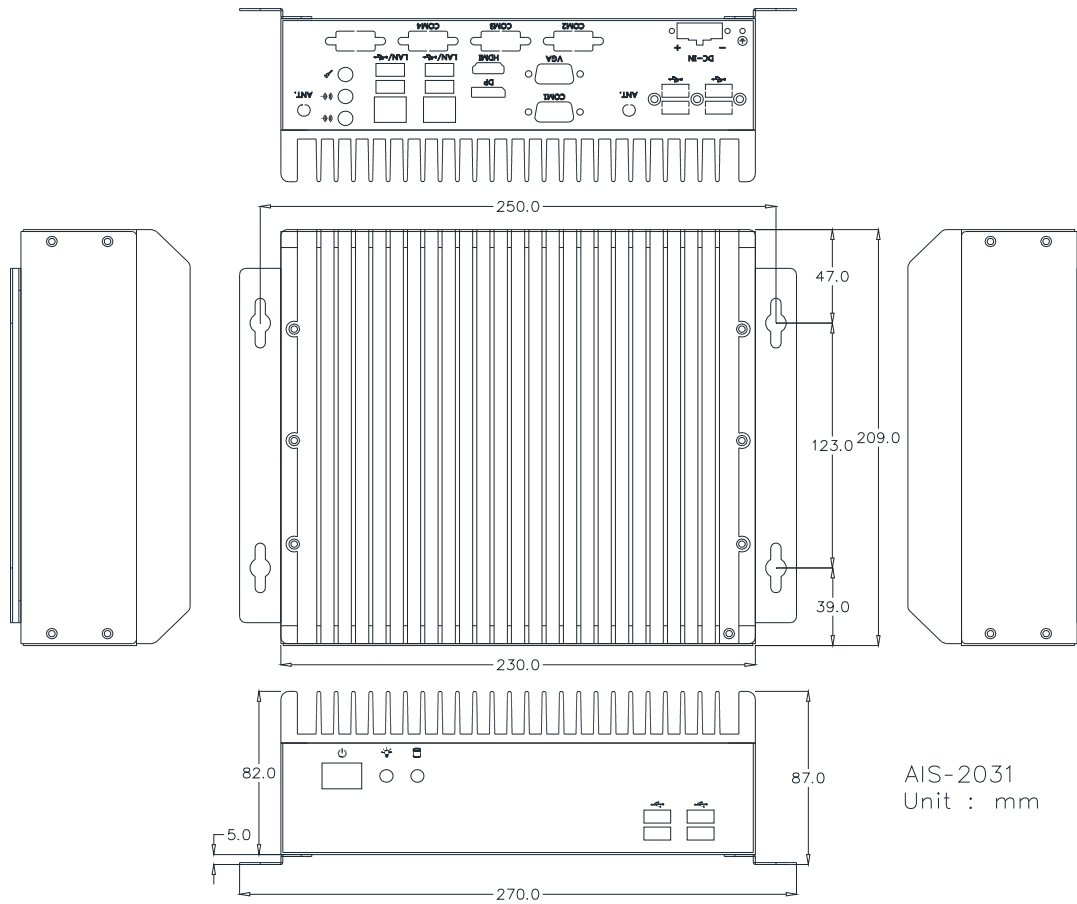
Features

- Fanless Mini-ITX system with Intel H310 Chipset, supports Socket LGA-1151 Intel 8th/9th Core i7/i5/i3 (Coffee Lake-S) Processors
- Dual Channel DDR4, 2 x SO-DIMM, up to 32GB system memory
- Dual display VGA/HDMI/DP, Dual LAN by Intel 219V, i210
- 4x COM (COM1/2 support RS-232/422/485, COM3/4 RS-232)
- 4 x USB 3.0 and 4 x USB 2.0 on rear I/O, 4 x USB 2.0 on front
- 1 x M.2 slot 2242/2280 Storage SATA, 1 x M.2 2230 E Key slot
- One 2.5" HDD space for SATA SSD/HDD
- DC 12V / 19V / 24V input
- 0°C ~ 50°C harsh operation environment

Specifications

AIS-2031 Series Key Features		AIS-2031-7E-M0-00P0	AIS-2031-5E-M0-00P0	AIS-2031-3E-M0-00P0
Processor System	CPU (SKL-S / KBL-S)	i7-9700TE	i5-9500TE	i3-9100TE
	Cache / Core	12MB, 8-Core	9MB, 6-Core	6MB, 4-Core
	Base / Max Frequency	1.8GHz / 3.8GHz	2.2GHz / 3.6GHz	2.2GHz / 3.2GHz
	TDP	35W		
	Chipset	Intel H310		
Expansion Slot	M.2 E Key	1 x M.2 2230 E Key slot		
	M.2 M Key	1 x M.2 2242/2280 M Key slot SATA storage		
Memory	Specification (SO-DIMM)	2 x Dual Channel DDR4-2666/2400 MHz SO-DIMM		
	Max. Capacity	Up to 32 GB system memory		
Graphics	HDMI	Supports resolution up to 4096x2160 @ 30Hz		
Ethernet	Interface Controller	Dual GbE, 1 x Intel I219V, 1 x Intel I210		
	Connector	2 x RJ-45		
SATA	SATA 3	2 x SATA3 (6.0 Gb/s)		
	VGA/HDMI/DP	1 x VGA, 1 x HDMI, 1 x DP		
System Rear I/O	Ethernet	2 x RJ45		
	USB	4 x USB3.0 and 4 x USB 2.0		
	Serial	1 x COM1 (RS-232/422/485)		
	Audio	1 x Audio ports (Line-in, Line-out, Mic-in)		
System Storage	HDD Driver Space	1 x HDD Space for one 2.5" HDD		
	COM2/COM3/COM4	3 x COM (COM2 RS-232/422/485, COM3/COM4 RS-232)		
Optional Features on Rear I/O	GPIO	1 x DB-9 or DB-15 for 4 x GPI + 4 x GPO by inquiry		
	LVDS	1 x LVDS (DB-26) by inquiry		
	3W Speaker Output	1 x DB9 for 3W speaker output by two 2-pin connector, L+/L-, R+/R-		
	Power On-Off Switch	1 x Soft switch		
System Front Bezel	Power LED	1x LED for system power status		
	HDD LED	1x LED for HDD data access status		
Operation System	Windows 10	Win10 IoT 64-bit IoT Ent LTSB 2016 (SKL-S)		
	Windows 8/8.1	Windows 8, Windows 8.1 32-bit, 64-bit		
	Windows 7	Win 7, WS7E, WS7P 32-bit, 64-bit		
Watchdog Timer	Output and Interval	System reset, programmable 1-255 sec/min; 1 sec. or 1min. / step		
System Power	DC Input	1 x 2-pin phoenix connector for DC 12V / 19V / 24V input		
Environment	Operating Temperature	0 ~ 40°C (32 ~ 104°F)	0 ~ 50°C (32 ~ 122°F)	
	Air Flow Condition	41 ~ 50°C (106 ~ 122°F)	51 ~ 55°C (124 ~ 131°F) with 0.7m/s air flow	
	Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)		
Physical Size	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.	4.5Kg / 5.0Kg		
Certifications	EMC	N/A		

Dimension Drawing



Ordering Information

Part Number	CPU	VGA/HDMI/DP	GbE	UBS 3.0	USB 2.0	COM	DDR4 Memory	SSD/HDD
AIS-2031-7E-M0-00P0	i7-9700TE	1/1/1	2	4	8	1	Option	Option
AIS-2031-7E-M8-1TP0	i7-9700TE	1/1/1	2	4	8	1	8GB	1TB HDD
AIS-2031-5E-M0-00P0	i5-9500TE	1/1/1	2	4	8	1	Option	Option
AIS-2031-5E-M4-1TP0	i5-9500TE	1/1/1	2	4	8	1	4GB	1TB HDD
AIS-2031-3E-M0-00P0	i3-9100TE	1/1/1	2	4	8	1	Option	Option
AIS-2031-3E-M4-1TP0	i3-9100TE	1/1/1	2	4	8	1	4GB	1TB HDD

Optional Items

Part Number	Description
SODIMM-DDR4-M4 / M8	204-Pin SODIMM DDR4-2133, 4GB/8GB
M2-M64L(2242)/N12L(2280)	M.2 SATA3 2242 64GB MLC / M.2 2280 128GB MLC (M-KEY)
M2-M64D(2242)/N12D(2280)	M.2 SATA3 2242 64GB 3D-TLC / M.2 2280 128GB 3D-TLC (M-KEY)
SSD-S64L/S12L/S25L	2.5" SATA3 SSD MLC, 64GB/128GB/256GB
SSD-S12D/S25D/S51D	2.5" SATA3 SSD 3D-TLC, 128GB/256GB/512GB
SAHDD-1T	2.5" SATA HDD 1TB WD10JQLX, 7200RPM, 7x24
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 Kits with Screws, L=178mm
DHAN3-60W-2P	AC-DC 12V@5A 60W Adapter, with 2-pin Terminal Block