

# AIS-2091 Series

Mini-ITX Fanless Skylake-S Platform H110  
Intel LGA-1151 Core i7/i5/i3 CPU, 2HDMI, 2LAN,  
4COM, 4USB3/4USB2, DC-Input



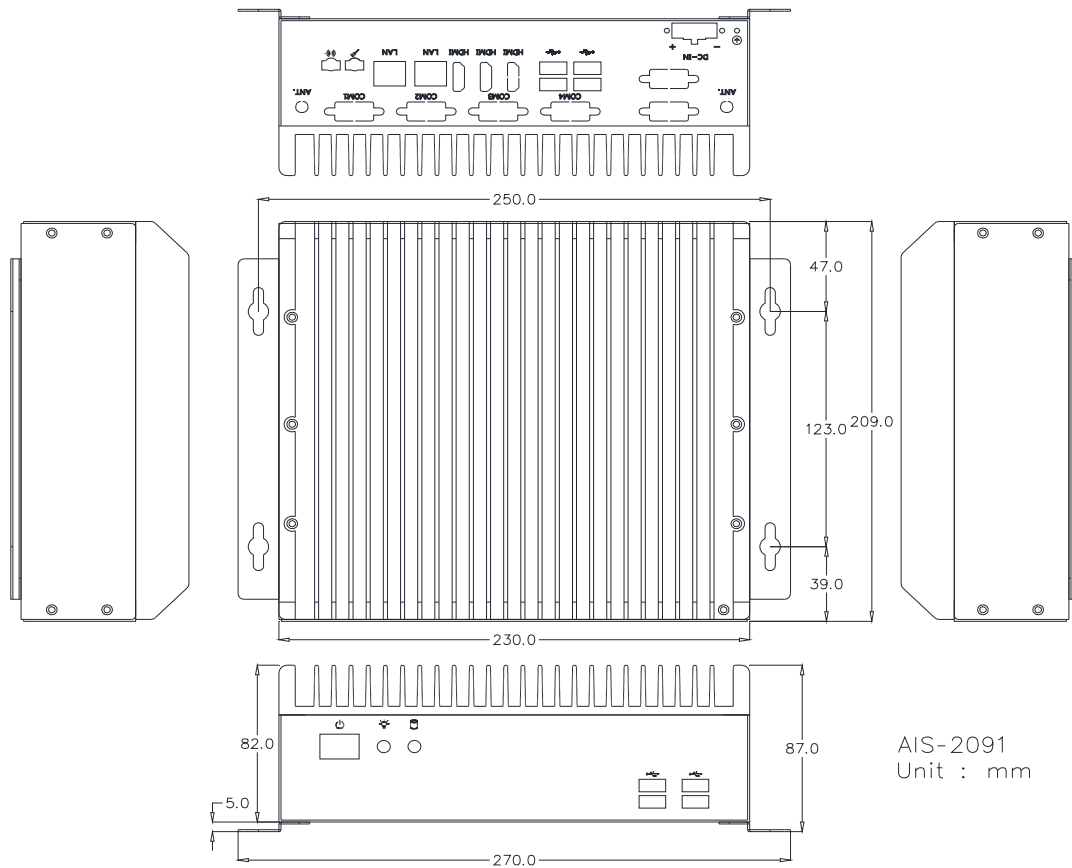
## Features

- Fanless Mini-ITX system with Intel H110 Chipset, supports Socket LGA-1151 Intel Core i7/i5/i3 (Skylake-S, Kblake-S) Processors
- Dual Channel DDR4, 2 x SO-DIMM, up to 32GB system memory
- Dual display 2x HDMI, Dual LAN by Intel 219V, i210
- 4x COM (COM1/2 support RS-232/422/485, COM3/4 RS-232)
- 4 x USB 3.0 on rear, 4 x USB 2.0 on rear (option 8x USB on rear)
- 1 x mSATA full-size, 1 x Mini-PCIe half-size
- One 2.5" HDD space for SATA SSD/HDD
- DC 12V / 19 ~ 24V input
- 0°C ~ 50°C harsh operation environment

## Specifications

AIS-3091 Series Key Features		AIS-2091-7T-M0-00P0	AIS-2091-5E-M0-00P0	AIS-2091-3E-M0-00P0
Processor System	CPU (SKL-S / KBL-S)	i7-7700T	i5-6500TE	i3-6100TE
	Cache / Core	8MB, 4-Core	6MB, 4-Core	4MB, 2-Core / 3MB, 2-Core
	Frequency	2.9GHz	2.3GHz	2.7GHz
	TDP	35W		
Expansion Slot	Chipset	Intel H110		
	Mini-PCIe	1 x half-size		
Memory	mSATA	1 x full-size		
	Specification (SO-DIMM)	2 x Dual Channel DDR4-2133 MHz SO-DIMM		
Graphics	Max. Capacity	Up to 32 GB system memory		
	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		
System Rear I/O	SATA	2 x SATA3 ( 6.0 Gb/s)		
	HDMI	2 x HDMI		
	Ethernet	2 x RJ45		
	USB	4 x USB3.0		
	Serial	4 x COM (COM1/COM2 RS-232/422/485, COM3/COM4 RS-232)		
System Storage	Audio	1 x Audio ports (Mic-in, Line-out)		
	HDD Driver Space	1 x HDD Space for one 2.5" HDD		
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-		
System Front Bezel	Power On-Off Switch	1 x Soft switch		
	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 / 19-24V input		
Environment	Operating Temperature	0 ~ 40°C ( 32 ~ 104°F )	0 ~ 50°C ( 32 ~ 122°F )	
	Air Flow Condition	40 ~ 50°C ( 104 ~ 122°F )	50 ~ 55°C ( 122 ~ 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	CE, FCC Class B (Target end of June/2020)		

## Dimension Drawing



## Ordering Information

Part Number	CPU	HDMI	PClex4	GbE	UBS 3.0	USB 2.0	COM	DDR4 Memory	SSD/HDD
AIS-2091-7T-M0-00P0	i7-7700T	2	1	2	4	4	4	Option	Option
AIS-2091-7T-M8-H5P0	i7-7700T	2	1	2	4	4	4	8GB	500GB HDD
AIS-2091-5E-M0-00P0	i5-6500TE	2	1	2	4	4	4	Option	Option
AIS-2091-5E-M4-H5P0	i5-6500TE	2	1	2	4	4	4	4GB	500GB HDD
AIS-2091-3E-M0-00P0	i3-6100TE	2	1	2	4	4	4	Option	Option
AIS-2091-3E-M4-H5P0	i3-6101TE	2	1	2	4	4	4	4GB	500GB HDD

## Optional Items

Part Number	Description
SODIMM-DDR4-M4 / M8	204-Pin SODIMM DDR4-2133, 4GB/8GB
MSD-m64L / m12L	mSATA SSD Module interface SATA III (6.0Gb/s), MLC, Toshiba TSOP 19mn, 64GB / 128GB
MSD-m12D / m25D	mSATA SSD Module interface SATA III (6.0Gb/s), 3D-TLC 128GB / 256GB
SSD-S12D/S25D/S51D	2.5" SATA3 SSD 3D-TLC, 128GB/256GB/512GB
SSD-S64L/S12L/S25L	2.5" SATA3 SSD MLC, 64GB/128GB/256GB
SAHDD-H50	2.5" SATA HDD 500GB WD
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