

AIS-3031 Series

Mini-ITX Fanless Box PC Coffee Lakes-S H310
Intel Core i7/i5/i3 CPU, PCIe16, VGA/HDMI/DP
2LAN,4COM, 4USB3/8USB2, DC 12/19/24V Input



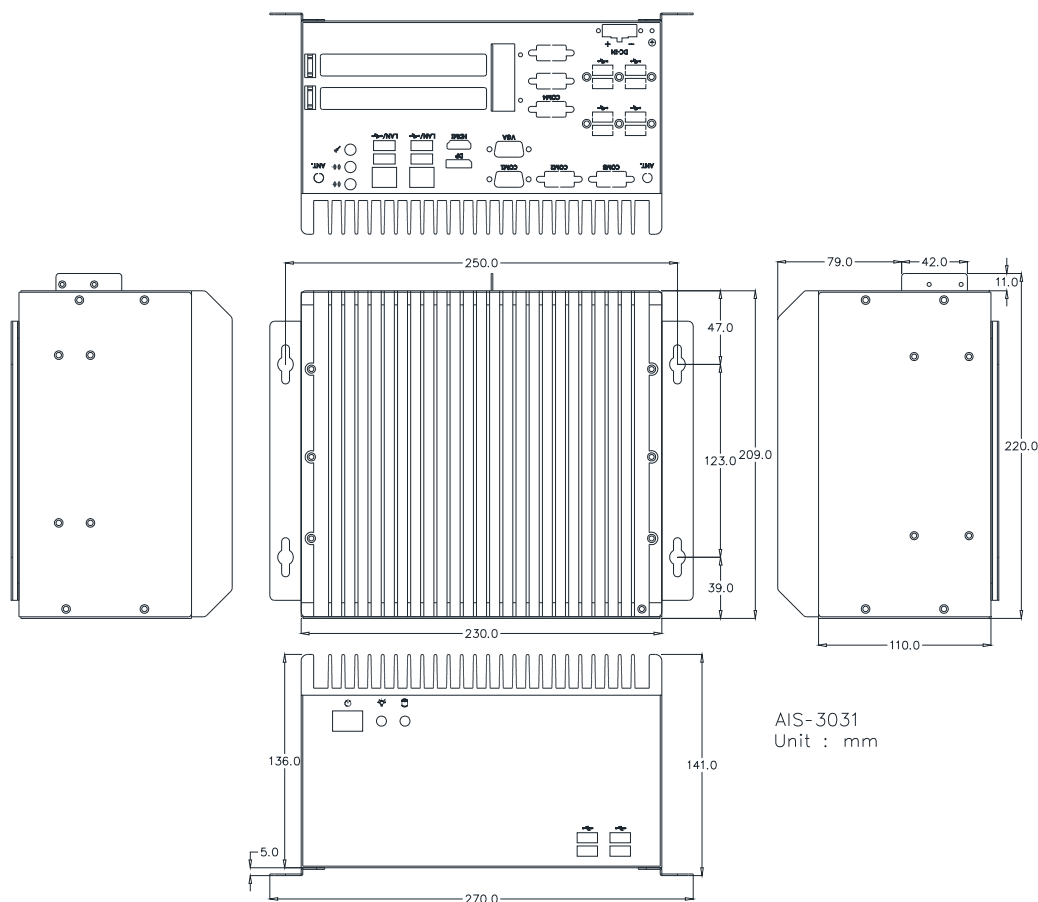
Features

- 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 on rear, 4 x USB 2.0 on front (option 8x USB on rear)
- 1 x M.2 slot 2242/2280 Storage SATA, 1 x M.2 2230 E Key slot
- 1 x 2.5" HDD of SATA SSD/HDD, DC 12V / 19V / 24V input
- Offers one PCIe16 expansion slot with dual slots space
- 0°C ~ 50°C harsh operation environment

Specifications

| AIS-3031 Series Key Features | | AIS-3031-7E-M0-00P0 | AIS-3031-5E-M0-00P0 | AIS-3031-3E-M0-00P0 |
|-------------------------------|-------------------------|--|---------------------|---------------------|
| Processor System | CPU (Coffee Lake-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 | PCIe16 (2 slot space) | 1 x PCIe16 expansion slot with dual slots space; supports add-on card length up to 200mm | | |
| | 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 | VGA/HDMI/DP | 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) | | |
| System Rear I/O | VGA/HDMI/DP | 1 x VGA, 1 x HDMI, 1 x DP | | |
| | Ethernet | 2 x RJ45 | | |
| | USB | 4 x USB3.0 | | |
| | Serial | 4 x COM (COM1/COM2 RS-232/422/485, COM3/COM4 RS-232) | | |
| | 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 | | |
| Optional Features on Rear I/O | USB 2.0 | 8 x USB 2.0 Type A | | |
| | GPIO | 1 x DB-9 or DB-15 for 4 x GPI + 4 x GPO 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 | 1 x LED for system power status | | |
| | HDD LED | 1 x LED for HDD data access status | | |
| | USB | 4 x USB 2.0 Type A | | |
| Operation System | Windows 10 | Win10 IoT 64-bit IoT Ent LTSP 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 ~ 50°C (32 ~ 122°F) | | |
| | Air Flow Condition | 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 136mm(H) | | |
| Packing Size | Dimensions | 330mm(W) x 330mm(D) x 220mm(H) | | |
| Weight | N.W. / G.W. | 4.5Kg / 5.0Kg | | |
| Certifications | EMC | To be soon | | |

Dimension Drawing



Ordering Information

| Part Number | CPU | VGA/HDMI/DP | GbE | UBS 3.0 | USB 2.0 | COM | PClex16 | M.2 2280 | Memory | SSD/HDD |
|---------------------|-----------|-------------|-----|---------|---------|-----|---------|----------|--------|---------|
| AIS-3031-7E-M0-00P0 | i7-9700TE | 1/1/1 | 2 | 4 | 4 | 2 | 1 | Option | Option | Option |
| AIS-3031-7E-M8-1TP0 | i7-9700TE | 1/1/1 | 2 | 4 | 4 | 2 | 1 | Option | 8GB | 1TB HDD |
| AIS-3031-5E-M0-00P0 | i5-9500TE | 1/1/1 | 2 | 4 | 4 | 2 | 1 | Option | Option | Option |
| AIS-3031-5E-M8-1TP0 | i5-9500TE | 1/1/1 | 2 | 4 | 4 | 2 | 1 | Option | 8GB | 1TB HDD |
| AIS-3031-3E-M0-00P0 | i3-9100TE | 1/1/1 | 2 | 4 | 4 | 2 | 1 | Option | Option | Option |
| AIS-3031-3E-M4-1TP0 | i3-9100TE | 1/1/1 | 2 | 4 | 4 | 2 | 1 | Option | 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 |