

AIS-2050 Series

Mini-ITX Fanless System with Intel Apollo Lake
Braswell and Baytrail J1900 SoC Processor
VGA/HDMI, 2LAN, 3COM, USB3/USB2, DC-IN



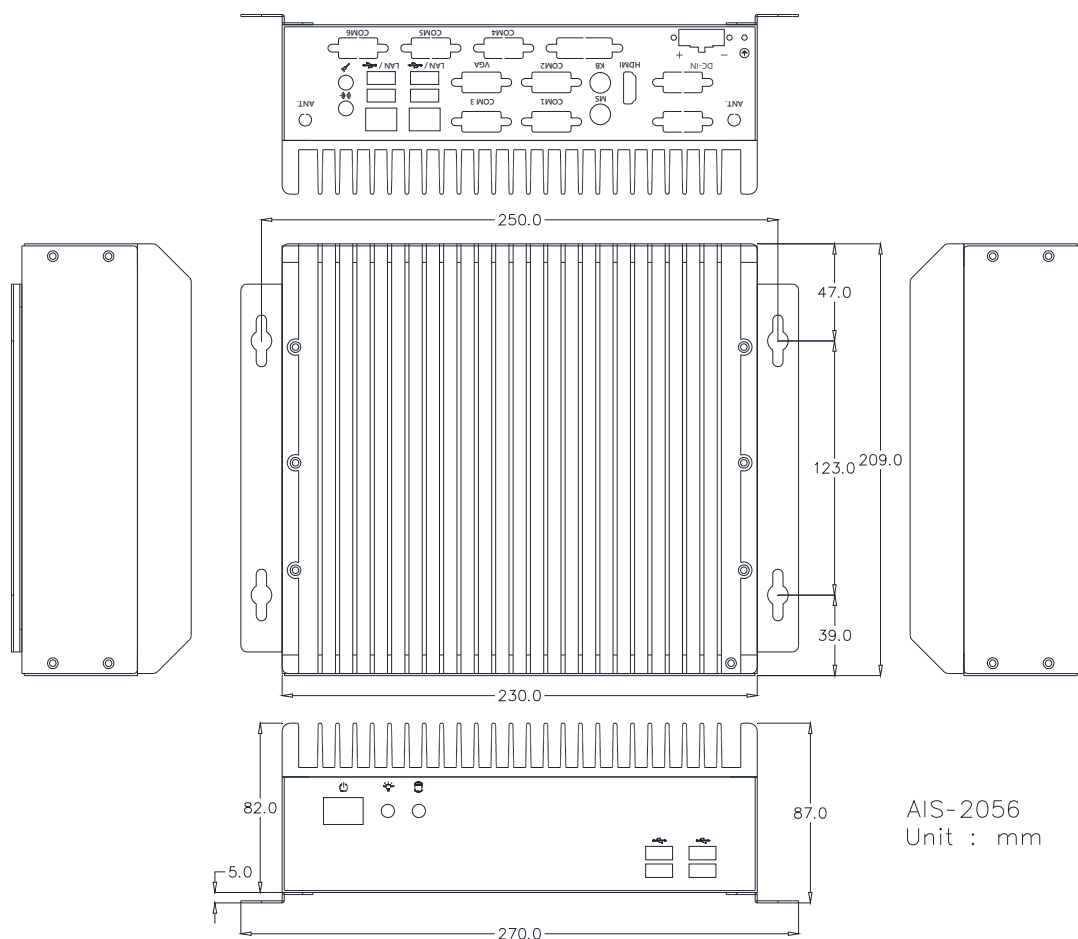
Features

- Fanless Mini-ITX system with Intel Apollo Lake, Braswell and Baytrail J1900 SoC Processor
- Dual Channel DDR3L SO-DIMM, up to 8GB system memory
- Dual display VGA/HDMI, Dual LAN by Realtek Gigabit
- 3 x COM(RS-232/422/485), option more COM(RS-232) ports
- 2/4 x USB 3.0, 2/0x USB 2.0 on rear, 4xUSB 2.0 on front
- One HDD cadge for 1x 2.5" HDD
- DC 12V/19~24V, 9V ~ 19V input, option DC12V 60W adapter
- 0°C ~ 60°C harsh operation environment

Specifications

AIS-205x Series Key Features		AIS-2056-C3-M0-H00P0	AIS-2054-C3-M4-H00P0	AIS-2050-C3-M0-H00P0
Processor System	CPU Cores	N3350 / 2-Core 1.1GHz	N3160 / 4-Core 1.6GHz	J1900 / 4-Core 2.0GHz
	Cache / Maximum Power	2MB / 6W	2MB / 6W	2MB / 10W
	Chipset	Intel Apollo Lake SoC	Intel Braswell SoC	Intel Bay Trail SoC
	BIOS	AMI 16Mb UEFI		
Expansion Slot	Mini-PCIe	1x full-size	1 x full-size	1 x half-size
	mSATA	N/A	1 x m-SATA	1 x m-SATA(SATA2 shared)
	M.2 (KEY E)	1 x 2230 (PCIe x 1)	N/A	N/A
	M.2 (KEY M)	1 x 2280 (SATA3 for SSD)	N/A	N/A
Memory	Specification (SO-DIMM)	2 x Dual Channel DDR3L-1867/1600/1333MHz SDRAM		
	Max. Capacity	Up to 8 GB system memory		
Graphics	VGA	Supports resolution up to 1920x1200 32-bit @ 60Hz		
	HDMI	4096x2160 @ 60Hz	1920x1200	1920 x 1200
Ethernet	Interface Controller	Dual GbE Realtek RTL8111G		
	Connector	2 x RJ-45		
SATA	SATA II	1 x SATA3	2 x SATA3	2 x SATA2 (mSATA shared)
System Rear I/O	VGA	1 x VGA(DB15)		
	HDMI	1 x HDMI		
	Ethernet	2 x RJ45		
	USB (IMB I/O shield)	4 x USB3.0	4 x USB 3.0	2 x USB 3.0, 2 x USB 2.0
	Serial (IMB I/O shield)	3 x COM (RS-232/422/485 are selectable by BIOS)		
	DB9	3 x DB9(COM4/COM5/COM6 options)		
	Audio	1 x Audio ports (Mic-in, Line-out)		
	KB/MS	1 x PS/2 KB, 1 x PS/2 MS		
System Storage	HDD Driver Bay	1 x HDD Cadge for one 2.5" HDD		
Optional Features on Rear I/O	COM4/COM5/COM6	3 x COM (RS-232)	3 x COM (RS-232)	COM4/5 (RS-232)
	GPIO	1 x DB-9 or DB-15 for 4 x GPI + 4 x GPO by inquiry		
	LVDS	1 x DB-26		
	3W Speaker Output	1 x DB-9 for 3W speaker output by two 2-pin connectors, 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		
	USB 2.0	4 x USB 2.0		
System Power	DC Input	1 x 2-pin DC 12V/19V ~ 24V	1 x 2-pin DC 12V/19V~24V	2-pin DC 9V ~ 19V
	Temperature	Operating	None-operating	
Environment		0 ~ 60°C (32 ~ 140°F)		
		-20 ~ 80°C (-4 ~ 176°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.	3.5 Kg / 4.0Kg		
Certifications	EMC	CE/FCC B		

Dimension Drawing



Ordering Information

Part Number	CPU	VGA	HDMI	GbE	UBS3.0	USB2.0	COM1/2/3	Memory/ HDD	M.2/msATA	DC Input
AIS-2056-C3-M0-H00P0	N3350	1	1	2	4	4	RS-232/422/485	Option	M.2(2242/2280)	12/19~24V
AIS-2054-C3-M0-H00P0	N3160	1	1	2	4	4	RS-232/422/485	Option	mSATA	12/19~24V
AIS-2050-C3-M0-H00P0	J1900	1	1	2	2	6	RS-232/422/485	Option	mSATA	9~19V

Optional Items

Part Number	Description
SODIMM-DDR3-2GBL	204-Pin SODIMM DDR3-1333, 2GB 1.35V
SODIMM-DDR3-4GBL	204-Pin SODIMM DDR3-1333, 4GB 1.35V
M032 / M064 / M128	mSATA SSD Module interface SATA III (6.0Gb/s), MLC, Toshiba TSOP 19mn, 32GB / 64GB / 128GB
SSD3-064	2.5" SATA3 SSD MLC, 64GB
M2-2280-3D-064	M.2 2280 3D TLC, 64GB (KEY M)
M2-2280-MLC-064	M.2 2280 MLC, 64GB (KEY M)
AIS-WM-BK	AIS Chassis Wall Mount Bracket Kits, Black, with Screws L=178mm (Same design for AGS-3000 series)
AES-DHAN3-60W-2P	AC-DC 12V@5A 60W Adapter, with 2-pin Terminal Block