

# AES-2310

Intel 4<sup>th</sup> Core i5-4300U/Celeron 2980U SoC  
Fanless Industrial Computers, COM/CANBus  
2LAN, 2HDMI, 4USB3/4USB2, Wide DC 9-36V



## Features

- Intel Haswell ULT Core i5-4300U 1.9GHz CPU, HD Graphics 4400
- With Intel Celeron 2980U Dual Core 1.6GHz CPU
- Dual HDMI(1x HDMI 4K2K), 2 Gigabit LAN, 4x USB 3.0, 4x USB 2.0
- 4x COM(COM1/2 RS-485/422/232, COM3/4 RS-232) by C4 models
- 2x CANBus and 2x COM(COM1/2 RS-485/422/232) by C2 models
- Wide DC 9-36V Input by 2-Pin phoenix connector
- -10°C ~ 50°C operation temperature for harsh environment
- Supports Microsoft Windows Embedded 8.1 Pro, Embedded Std 8, WS7P, WS7E
- Fanless embedded control and intelligent transportation system
- ATM, Kiosk, self-service, machine automation and platform of IoT

## Specifications

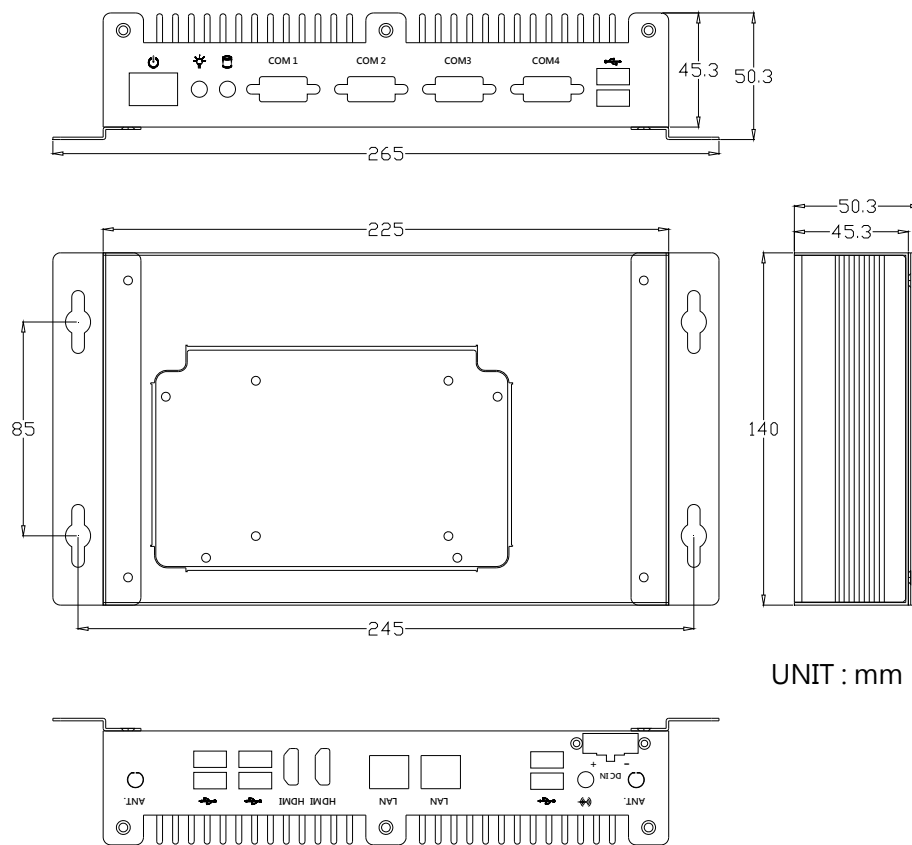
	CPU	AES-2310M-C4	AES-2310N-C4	AES-2310M-C2	AES-2310N-C2
Processor System	Max. Speed(Core)	1.9GHz Dual Core	1.6GHz Dual Core	1.9GHz Dual Core	1.6GHz Dual Core
	L2 Cache	3MB	2MB	3MB	2MB
	CPU/ TDP 15W	i5-4300U	Celeron N2980U	i5-4300U	Celeron N2980U
	BIOS	AMI 16Mb AMI UEFI with GUI support			
Expansion Slot	Graphics Processor	Intel Graphics 4400	Intel HD Graphics	Intel Graphics 4400	Intel HD Graphics
	Mini-PCIe / mSATA	1 x full-size ( shared with mSATA)		Bundled with Mini-PCIe CAN Bus Module	
Memory	Mini-PCIe (Half-size)	1 x half-size for Wi-Fi module			
	Specification (SO-DIMM)	1 x DDR3L-1333			
Graphics	System Max. Capacity	8GB			
	HDMI	2 x HDMI ( 1xHDMI supports HDMI 1.4a, resolution up to 4096x2304 )			
Ethernet	LVDS(Internal connector)	1 x Dual channel 24-bit LVDS up to 1920 x 1200, (customized LVDS solution for LCD)			
	LAN1 Gigabit Controller	1 x Intel I218LM	1 x Intel I218V	1 x Intel I218LM	1 x Intel I218V
Storage	LAN2 Gigabit Controller	1 x Realtek RTL8111G			
	2.5" Driver	1 x SATA1 for 2.5" SATA drive			
	mSATA	1 x full-size shared with SATA2		N/A	
System Rear I/O	SATADOM	Options 32GB SATAIII shared with SATA1		Options 32GB SATAIII shared with SATA2	
	HDMI	2 x HDMI			
	Ethernet	2 x RJ45			
	USB Type A	4 x USB 3.0, 2 x USB 2.0			
	Audio	1 x Audio ports (Line-out)			
	System Power Input	1 x 2-pin phoenix connector 9-36Vdc Input			
System Front Bezel	Antenna	2 x Antenna holes (options)			
	Power-On Button	1x Moment button switch to turn-on system			
	System Power LED	1x LED for system power status			
	HDD LED	1x LED for SATA HDD data access status			
	COM1-2 Ports	2 x DB-9 ( 2 x RS-485/422/232, Pin9 +5/+12V selectable,)			
	COM3-4 Ports	2 x DB-9 ( 2 x RS-232)		N/A	
	CANBus ports	N/A		2 x DB-9 ( CAN Bus)	
	Option GPIO 8-bit	1 x DB-9 or DB-15 by request on front bezel, 4 x GPI + 4 x GPO and GND			
Operation System	Customized LVDS	Customized LVDS solution for LCD display			
	Win 7	Win 7 32-bit, 64-bit, WS7E/WS7P 32-bit, 64-bit			
Watchdog Timer	Win 8	Win 8 32-bit, 64bit			
	Output and Interval	System reset, programmable 1 ~ 255 sec/min; 1 sec. or 1min. /step			
Environment	DC Input	9-36Vdc input (option DC12V 50W adapter)			
	Operating Temperature	-10°C ~50°C(32~140°F)			
	Air Flow condition	60°C with 0.7m/s air flow			
Physical Size	Storage Temperature	-40 ~ 85°C ( -40 ~ 185°F )			
	Dimensions	225mm(W) x 140mm(D) x 45mm(H)			
Packing Size	Dimensions	300mm(W) x 260mm(D) x 130mm(H)			
	Weight	N.W / G.W.			
Certifications		Single packed: 3Kg ~ 4Kg; Double packed: 6Kg ~ 8Kg			
	EMC	CE, FCC Class A ( to be ready soon)			

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AES-2310 series Fanless Embedded Industrial PC with i5 4300U/ Celeron 2980U CPU

All product specifications are subject to change without notice

## Dimensions Outlook



UNIT : mm

## Ordering Information

Part Number	CPU	HDMI	GbE	USB 3.0	USB 2.0	COM	CANBus	RAM	mSATA	*SATADOM	2.5" SSD/HDD
AES-2310MC4-M0-00P	I5-4300U	2	2	4	4	4	N/A	Option	Option	Option	Option
AES-2310MC2-M0-00P	I5-4300U	2	2	4	4	2	2	Option	N/A	Option	Option
AES-2310NC4-M0-00P	N2980U	2	2	4	4	4	N/A	Option	Option	Option	Option
AES-2310NC2-M0-00P	N2980U	2	2	4	4	2	2	Option	N/A	Option	Option
AES-2310MC4-M4-m064P	I5-4300U	2	2	4	4	4	N/A	4GB	64GB	N/A	Option
AES-2310MC4-M4-SO032P	I5-4300U	2	2	4	4	4	N/A	4GB	N/A	32GB	Option
AES-2310MC4-M4-SD064P	I5-4300U	2	2	4	4	4	N/A	4GB	N/A	Option	2.5" SSD 64GB
AES-2310MC4-M4-HD320P	I5-4300U	2	2	4	4	4	N/A	4GB	N/A	Option	2.5" HDD 320GB

All AES-2310 are with less safety stock and long lead time. \*SATADOM has to be pre-installed on SATA1 or SATA2 by production before shipment

## Optional Items

Part Number	Description
AES-WM-BK	AES-1210 Wall Mount Bracket Kits, Black, with Screws
SODIMM-DDR3-2GBL / 4GBL	204-Pin SODIMM DDR3-1333, 2GB / 4GB (1.35V)
MSD-M032 / MSD-M064	mSATA SSD Module MLC, Toshiba TSOP 19mn, 32GB / 64GB
SADOM-SO032	SATADOM 32GB, interface SATA III (6.0Gb/S), MLC, R/W 150/40 MS/sec( preinstalled on SATA1)
SA-HD320/HD500	2.5" SATA HDD 7mm height, 320GB / 500GB
SA-SD064 /SD128	2.5" SATA SSD 7mm height, 64GB / 128GB
WF-RTL8188	Wi-Fi Module RTL8188, Mini-PCIe Half-size, with wire and antenna, LAN 802.11/b/g/n
AIS-DBAE1-60W-2P	AC-DC 60W Adapter, 90V-264Vac input by C14 socket, DC 12V@5A output with 2-pin phoneix connector



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