

# AES-2210-C4/C2

Fanless Industrial Computers, 4COM/2COM  
Intel Celeron J1900 Quad-Core 2.0 GHz, 2LAN  
VGA/HDMI, 2USB3/6USB2, wide DC-IN 9-36V



## Features

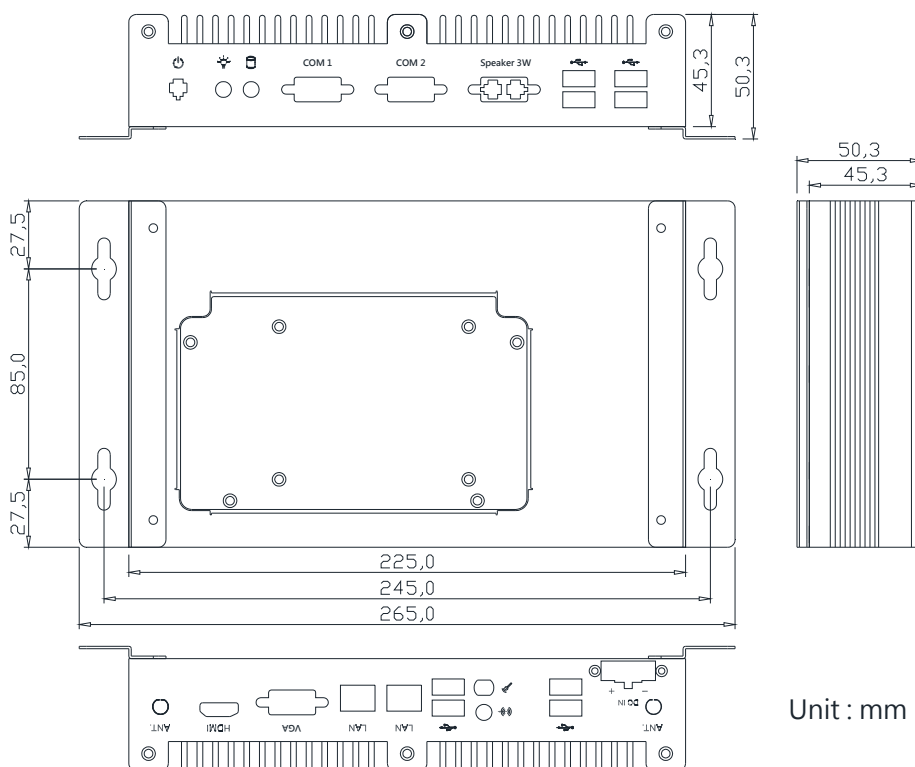
- With Intel BayTrail-D Celeron Quad-Core J1900 2.0GHz CPU
- Dual display VGA/HDMI, dual Gigabit LAN, 2xUSB 3.0, 4-6xUSB 2.0
- 4x COM, COM1 by RS-485/422/232, COM2/3/4 by RS-232 (4USB2)
- 3x COM, COM1 by RS-485/422/232, COM2/3 by RS-232 (6USB2)
- 2xCOM, COM1 by RS-485/422/232, COM2 by RS-232 (6USB2+SP)
- Power switch by 2-pole connector for remote control (by project)
- Wide DC 9-36V Input by 2-Pin phoenix connector
- Supports Microsoft Win 10 IoT 64bit (Ent LTSB) , WS7P, WS7E
- ATM, Kiosk, self-service, machine automation, IoT gateway platform

## Specifications

	CPU	AES-2210D-C4	AES-2210D-C3-M8-HG5SP0	AES-2210D-C2-M8-HG5SP1
Processor System	CPU Max. Speed(Core)	2.0GHz Quad Core		
	L2 Cache	2MB		
	CPU/ TDP 15W	Celeron J1900 / 10W		
	BIOS	AMI 16Mb AMI UEFI with GUI support		
	Graphics Processor	Intel HD Graphics		
Expansion Slot	Mini-PCIe / mSATA	1 x full-size ( shared with mSATA)		
	Mini-PCIe (Half-size)	1 x half-size		
Memory	Specification (SO-DIMM)	1 x SO-DIMM, DDR3L-1333, system maximum memory up to 8GB		
	System Memory	W/O	8GB	8GB
Graphics	VGA	1 x VGA(1920x1200)		
	HDMI	1 x HDMI (1920x1200 )		
	LVDS(Internal connector)	1 x Dual channel 24-bit LVDS up to1920 x 1200, (customized LVDS solution for LCD)		
Ethernet	LAN Gigabit Controller	Realtek RTL8111E-VL		
Storage	2.5" Driver	1 x SATA1 for 2.5" SATA drive		
	mSATA	1 x full-size Mini-PCIe shared with SATA2		
	System Storage	W/O HDD/SSD	500GB HDD	500GB HDD
System Rear I/O	VGA	1 x DB-15		
	HDMI	1 x HDMI		
	Ethernet	2 x RJ45		
	USB Type A	2 x USB 3.0, 2 x USB 2.0		
	Line-out	1 x Audio jack (Line-out)		
	Mic-in	1 x Audio jack ( Mic-in)		
	System Power Input	1 x 2-pin phoenix connector 9-36Vdc Input		
	Antenna	2 x Antenna holes (options)		
System Front Bezel	Power-On Button	1x power switch	N/A	N/A
	Power switch 2-pole	N/A	1 x 2P connector	1 x 2P connector
	System Power LED	1x LED for system power status		
	HDD LED	1x LED for SATA HDD data access status		
	COM1	1 x DB9 ( RS-485/422/232, Pin9 +5/+12V selectable)		
	COM2	1 x DB9 ( RS-232)		
	COM3	1 x DB9 ( RS-232)	1 x DB9 (RS-232)	3W Speaker out by two 2-P
	COM4	1 x DBP ( RS-232)	N/A	N/A
	USB Type A	2 x USB 2.0	4 x USB 2.0	4 x USB 2.0
Operation System	Win 7	Win 7 32-bit, 64-bit, WS7E/WS7P 32-bit, 64-bit		
	Win 10	Win 10 IoT Ent LTSB , 64bit		
Watchdog Timer	Output and Interval	System reset, programmable 1 ~ 255 sec/min; 1 sec. or 1min. /step		
Power Requirement	DC Input	9-36Vdc input (option DC12V 60W adapter)		
Environment	Operating Temperature	-10°C ~60°C(32~140°F)		
	Air Flow condition	50°C -60°C with 0.7m/s air flow		
	Storage Temperature	-40 ~ 85°C ( -40 ~ 185°F )		
Physical Size	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.	Single packed: 3Kg / 4Kg		
Certifications	EMC	CE, FCC Class B		

## Dimensions Outlook

AES-2210D-C2-M8-HG5SP1



## Ordering Information

Part Number	CPU	VGA/HDMI	GbE	USB 3.0 / 2.0		COM	3W SP	RAM	Mini-PCle / mSATA		2.5" SSD/HDD
AES-2210D-C4-M0-m00P0	J1900	1/1	2	2	4	4	Option	Option	Disabled	Enabled	Option
AES-2210M-C4-M0-m00P0	N2930	1/1	2	2	4	4	Option	Option	Disabled	Enabled	Option
AES-2210D-C4-M4-m064P0	J1900	1/1	2	2	4	4	Option	4GB	Disabled	64GB	Option
AES-2210D-C4-M4-SD064P0	J1900	1/1	2	2	4	4	Option	4GB	Enabled	Disabled	2.5" SSD 64GB
AES-2210D-C3-M8-HG5SP0	J1900	1/1	2	2	6	3	Option	8GB	Enabled	Disabled	2.5" HG 500GB
AES-2210D-C2-M8-HG5SP1	J1900	1/1	2	2	6	2	2x2P	8GB	Enabled	Disabled	2.5" HG 500GB

\*AES-2210E is for projects with MOQ. \*SATADOM has to be pre-installed on SATA2 (mSATA disabled, Mini-PCle enabled). This has to be done 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 / 8GBL	204-Pin SODIMM DDR3-1333, 2GB / 4GB / 8GB (1.35V)
MSD-M032 / MSD-M064	mSATA SSD Module MLC, Toshiba TSOP 19mn, 32GB / 64GB
SA-HD320/HD500	2.5" SATA HDD 7mm height, 320GB / 500GB
SA-HG500	2.5" SATA HDD 7mm height, 500GB 7200RPM, 0-60C for 7x24
SA-SD064 /SD128	2.5" SATA SSD 7mm height, 64GB / 128GB
WPEA-121N	Wi-Fi Module Atheros AR9382, Mini-PCle Half-size, 2T2R up to 300Mbps, with wire and antenna, LAN 802.11a/b/g/n
WPEA-152GN(BT)	Wi-Fi / BT, Mini-PCle Half-size Atheros AR9495 + AR3012, wire and antenna, LAN 802.11b/g/n, BT 4.0LE/3.0HS/2.1EDR
DBAE1-60W-2P	AC-DC 60W Adapter, 90V-264Vac input by C14 socket, DC 12V@5A output with 2-pin phoneix connector