

AES-2360-C4

Intel Whiskey Lake i5-8365UE/i3-8145UE CPU
Fanless Industrial Computers, DP/HDMI, 2LAN
4USB3.1/4USB2, 4COM, M.2, SIM,DC-IN 12-24V



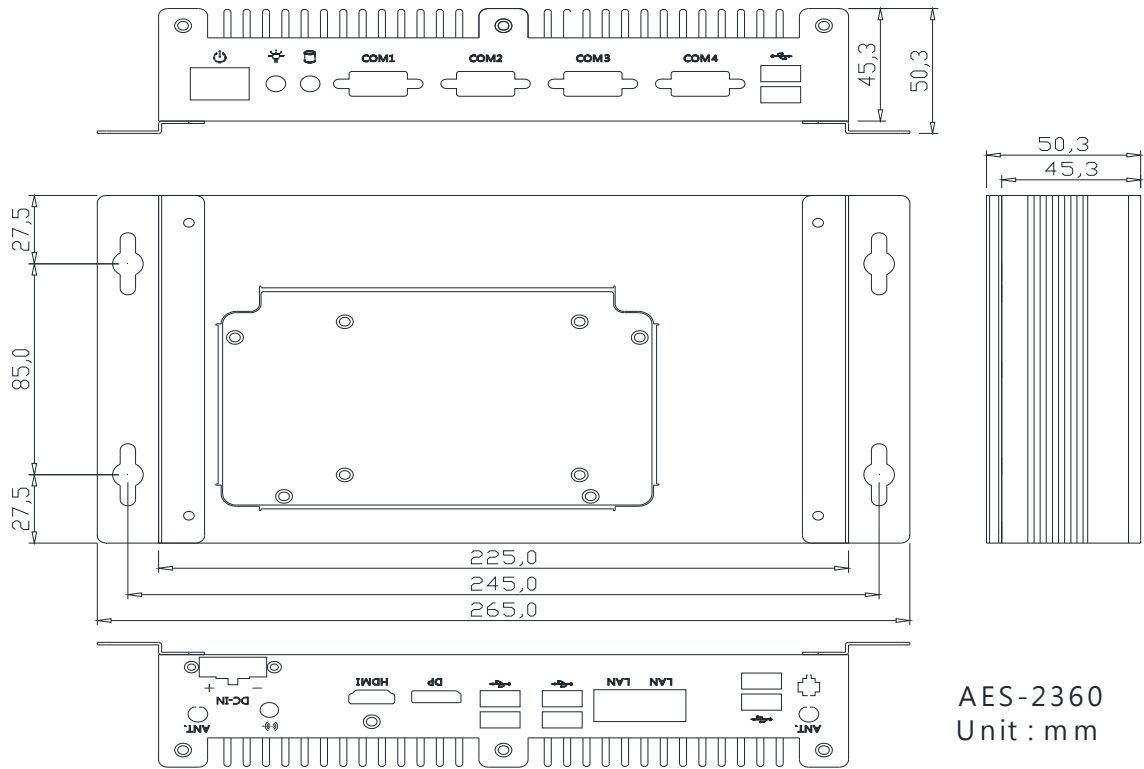
Features

- Intel 8th Whiskey Lake-U Core i5-8365UE / i3-8145UE CPU,
- Supports DDR4 2400MHz, 2xSO-DIMM, up to 64GB system memory
- DP++, Dual-Mode Display Port, max resolution 4096x2304 @60Hz
- HDMI 1.4 port, max resolution up to 4096x2160 @30Hz
- 2 Gigabit Intel LAN, 4x USB 3.1, 4x USB 2.0
- 4x COM, COM1/2 by RS-485/422/232, COM3/4 by RS-232
- Onboard M.2 B/E/M-Key, Nano SIM card slot, TPM 2.0
- Wide DC 12-24V Input by 2-Pin phoenix connector
- Supports Microsoft Windows 10 IoT 64bit (Ent 2019 LTSC)
- ATM, Kiosk, self-service, machine automation, IoT gateway platform

Specifications

		AES-2360E-C4	AES-2360L-C4
Processor System	CPU Max. Speed(Core)	1.6GHz up to 4.1GHz, Quad Core	2.2GHz up to 3.9GHz, Dual Core
	L2 Cache	6MB	4MB
	CPU/ TDP 15W	i5-8365UE / 1.6GHz	i3-8145UE / 2.2GHz
	BIOS	256Mb SPI MX25L25673GM21-08G	
	Graphics Processor	Intel UHD Graphics 620	
Expansion Slot	M.2 B-Key	1 x M.2 B-Key 2242/3042/2280 (SATA 3.0/USB 3.0/USB 2.0 with Nano SIM) Slot	
	M.2 E-Key	1 x M.2 E-Key 2230(PCI-E x1/USB2.0/CNVi) Slot	
	M.2 M-Key	1 x M.2 M-Key 2242/2280 (PCI-e x4 /SATA) Slot	
Memory	Specification (SO-DIMM)	2 x DDR4 2400MHz (2 x SO-DIMM, 32GB per SO-DIMM)	
	System Max. Capacity	64GB	
Graphics	DP	1 x DP++ (Dual-Mode DisplayPort max. resolution up to 4096x2340 @ 60Hz)	
	HDMI	1 x HDMI 1.4 (max. resolution up to 4096 x 2160 @30Hz)	
Ethernet	LAN Gigabit Controller	2 x LAN (1x Intel I210IT, 1x Intel PHY I219LM)	
Storage	M.2 B-Key	1 x M.2 B-Key 2242/2280 (SATA 3.0/USB3/USB2) with Nano SIM Holder	
	M.2 M-Key	1 x M.2 M-Key 2242/2280(PCI-E x4/SATA 3.0)	
	2.5" SATA Driver	N/A	
System Rear I/O	DP/HDMI	1 x DP, 1x HDMI	
	Ethernet	2 x RJ45	
	USB Type A	4 x USB 3.1(Gen 2) , 4 x USB 2.0	
	Audio	1 x Audio port (Line-out)	
	System Power Input	1 x 2-pin phoenix connector 12-24Vdc Input	
	Antenna	2 x Antenna holes (options)	
System Front Bezel	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 SSD data access status	
	COM1-2 Port	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)	
	USB Type A	2 x USB 2.0	
	Option GPIO 8-bit	1 x DB-9 or 1x GPIO Board by request on front bezel, 4 x GPI + 4 x GPO and 5V/GND	
Operation System	Win 10	Win 10 IoT 64-bit, Ent 2019 LTSC	
Watchdog Timer	Output and Interval	System reset, programmable 1 ~ 255 sec/min; 1 sec. or 1min. /step	
Power Requirement	DC Input	12-24Vdc input (option DC12V 60W adapter)	
Environment	Operating Temperature	0°C ~50°C(32~122°F)	0°C ~45°C(32~113°F)
	Air Flow condition	50°C - 60°C (122~140°F) w/0.7m/s air flow	45°C - 55°C (113~131°F) w/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 270mm(D) x 130mm(H)	
Weight	N.W / G.W.	Single packed: 2.5Kg / 3Kg	
Certifications	EMC	CE, FCC Class B	

Dimensions Outlook



Ordering Information

Part Number	CPU	DP/HDMI	GbE	USB 3.1	USB 2.0	COM	DDR4 RAM	M.2 B-Key	M.2 M-Key	60W PW
AES-2360L-C4-M4-M64LP0	i3-8145UE	1/1	2	4	4	4	4GB	64GB MLC/42	Option	Option
AES-2360E-C4-M4-N12LP0	i5-8365UE	1/1	2	4	4	4	4GB	128GB MLC/80	Option	Option
AES-2360L-C4-M4-M12DP0	i3-8145UE	1/1	2	4	4	4	4GB	128GB TLC/42	Option	Option
AES-2360E-C4-M4-N25DP0	i5-8365UE	1/1	2	4	4	4	4GB	256GB TLC/80	Option	Option
AES-2360L-C4-M4-P25DP0	i3-8145UE	1/1	2	4	4	4	8GB	Option	256G TLC/42 x2	Option
AES-2360E-C4-M4-Q25DP0	i5-8365UE	1/1	2	4	4	4	8GB	Option	256G TLC/80 x2	Option
AES-2360E-C4-M4-G25DP0	i5-8365UE	1/1	2	4	4	4	8GB	Option	256G TLC/80 x4	Option
AES-2360H-C4-M0-M00P0	i7-8665UE	1/1	2	4	4	4	Option	Option	Option	Option

*AES-2360H is only by request of projects with MOQ.

Optional Items

Part Number	Description
SODIMM-DDR4- M4 / M8	204-Pin SODIMM DDR4-2133, 4GB / 8GB
M2-M64D(2242)/N12D(2280)	M.2 SATA3 2242 64GB 3D-TLC/ M.2 2280 128GB 3D-TLC (B-KEY)
M2-M64L(2242)/N12L(2280)	M.2 SATA3 2242 64GB MLC/ M.2 2280 128GB MLC (B-KEY)
M2-P64D(2242)/Q12D(2280)	M.2 PCIe Gen3x2, 2242 64GB 3D-TLC/ M.2 PCIe Gen3x2, 2280 128GB 3D-TLC (M-KEY)
M2-P64L(2242)/Q12L(2280)	M.2 PCIe Gen3x2, 2242 64GB MLC/ M.2 PCIe Gen3x2, 2280 128GB MLC (M-KEY)
M2-G12D(2280)	M.2 PCIe Gen3x4, 2280 128GB 3D-TLC (M-KEY)
AC-9260	M.2 2230 (E-KEY) Wi-Fi Module, Intel AC9260 802.11abgn + Bluetooth 5.0, dual band 2T2R
DHAN3-60W-2P	AC-DC 60W Adapter, 90V-264Vac input by C14 socket, DC 12V@5A output with 2-pin phoneix connector
AES-WM-BK	AES Wall Mount Kits with Screws