

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



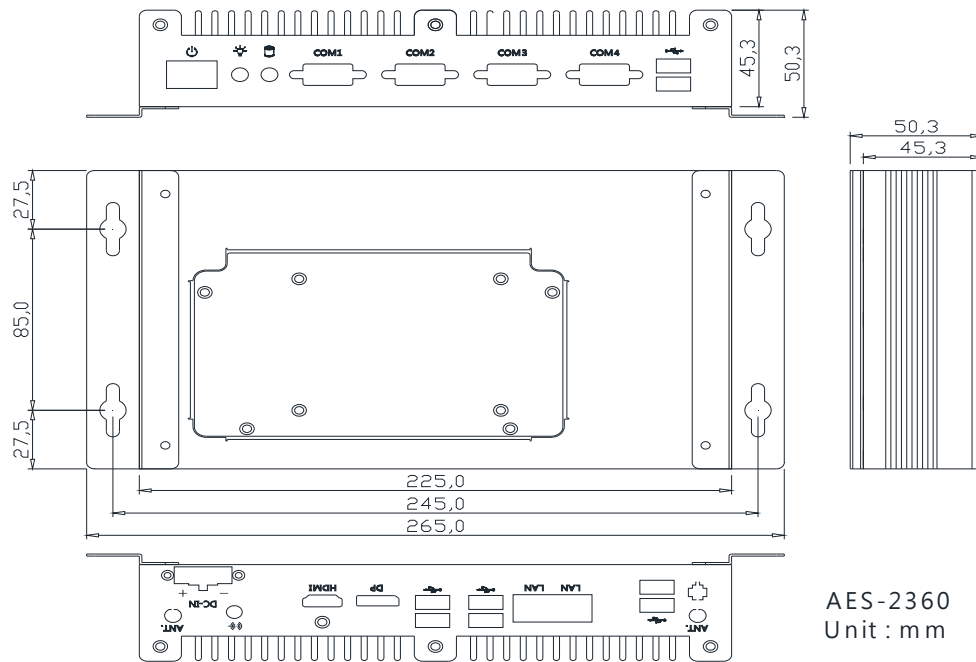
Features

- Intel 8th Whiskey Lake Q-Core i5-8365UE / D-Core 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-2360 Series Key Features		AES-2360H-C4	AES-2360E-C4	AES-2360L-C4	AES-2360C-C4
Processor System	CPU Max. Speed	Up 4.4GHz/1.7GHz	Up 4.1GHz/1.6GHz	Up 3.9GHz/2.2GHz	2.0GHz
	L2 Cache / Core	8MB, 4-Core/8T	6MB, 4-Core/8T	4MB, 2-Core/4T	2MB, 2-Core/2T
	CPU/ TDP 15W	i7-8665UE	i5-8365UE	i3-8145UE	Celeron 4305UE
	BIOS	256Mb SPI MX25L25673GM21-08G			
Expansion Slot	Graphics Processor	Intel UHD Graphics 620			
	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, CNVI and USB 2.0 for Wireless)			
	M.2 M-Key	1 x M.2 M-Key 2242/2280 (PCI-E x4 /SATA3) Slot			
Memory	Specification (SO-DIMM)	2 x DDR4 2400MHz, 2x SO-DIMM, 32GB per slot			
	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 2242/3042/2280 (SATA 3.0/USB3/USB2) with Nano SIM Holder			
	M.2 M-Key	1 x M.2 M-Key 2242/2280(PCI-E 3.0 x4/SATA 3.0), NVMe support			
	2.5" SATA Driver	N/A (Dual M.2 SATA 3.0 storage by M.2 B-Key and M.2 M-Key)			
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), 2 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	Customized LVDS Port	Customized LVDS solution for open frame LCD display by request			
	Windows 64-bit	Win 10 IoT 64-bit, Ent 2019 LTSC			
Watchdog Timer	Linux 64-bit	Ubuntu 19.04 / 20.04; Fedora 30; RHEL 7.6/8.0/8.2; SUSE Leap/SLES			
	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) (AES-2360L i3-8145UE Turbo off)			
	Air Flow condition	50°C - 60°C (122~140°F) w/0.7m/s air flow (AES-2360L i3-8145UE Turbo off)			
	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 PSU
AES-2360E-C4-M0-M00P0	i5-8365UE	1/1	2	4	4	4	Option	Option	Option	Option
AES-2360L-C4-M0-M00P0	i3-8145UE	1/1	2	4	4	4	4GB	Option	Option	Option
AES-2360C-C4-M0-M00P0	C-4305UE	1/1	2	4	4	4	4GB	Option	Option	Option
AES-2360E-C4-M8-R12DP0	i5-8365UE	1/1	2	4	4	4	8GB	Option	128G TLC/NVMe	Option
AES-2360E-C4-M8-N12DP0	i5-8365UE	1/1	2	4	4	4	8GB	Option	128G TLC/80 SA	Option
AES-2360E-C4-M8-N12LP0	i5-8365UE	1/1	2	4	4	4	8GB	128G MLC/80 SA	Option	Option
AES-2360L-C4-M8-N64DP0	i3-8145UE	1/1	2	4	4	4	8GB	64G TLC/80 SA	Option	Option
AES-2360C-C4-M4-M64DP0	C-4305UE	1/1	2	4	4	4	4GB	64G TLC/42 SA	Option	Option

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-M25D(2242)/N51D(2280)	M.2 SATA 2242 256GB 3D-TLC / M.2 2280 512GB 3D-TLC (M-KEY)
M2-Q12D(2242)/R12D(2280)	M.2 NVMe Gen3x4, 2242 128GB 3D-TLC / M.2 NVMe 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 phoenix connector
AES-WM-BK	AES Wall Mount Kits with Screws