

EPC-WHL

8th Gen Intel® Whiskey Lake Fanless Tiny System



- > 8th Gen Intel® Whiskey Lake-U 4 Core Ultra Low 15W Processor
- > Intel® UHD Graphics 620/610
- > Dual Gigabit Ethernet, HD Audio
- > Dual Channel Max up to 64GB DDR4 2400Mhz
- > Dual Expansion, M.2 Key-B/E
- > Dual HDMI w/CEC Controller (Factory Option)
- > TPM 2.0, RAID 0/1
- > Support VESA (Factory Option)

+ Spec

System Information

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|---------------------------|--|
| Processor | Intel® Core™ i7-8665UE Processor (8M Cache, up to 4.40 GHz) Intel® Core™ i5-8365UE Processor (6M Cache, up to 4.10 GHz) Intel® Core™ i3-8145UE Processor (4M Cache, up to 3.9GHz) Intel® Celeron® Processor 4305UE (2M Cache, 2.00 GHz) |
| System Memory | 2x 260-Pin SO-DIMM Socket, Max. Up to 64GB DDR4 2400MHz |
| BIOS Information | AMI uEFI BIOS, 128Mbit SPI Flash ROM |
| Watchdog Timer | H/W Reset, 1sec. ~ 65535sec. |
| H/W Status Monitor | Monitoring System Temperature and Voltage with Auto Throttling Control |
| SBC | ECM-WHL |

Expansion

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|------------------|---|
| Expansion | 1 x M.2 (Key-B, 2242/3042, PCIe, SATA, USB 3.0, USB 2.0, SIM Slot) 1 x M.2 (Key-E, 2230, PCIe, USB2.0, CNVi) |
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Storage

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| Storage | 1 x 2.5" Drive Bay (7mm) 1 x M.2 (2242) Key-B Support RAID 0/1 |
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I/O

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| USB Port | 4 x USB 3.1, 2 x USB2.0 (Factory option) |
| COM Port | 1 x RS-232 (Factory Option) |
| Antenna | 2 x Antenna Mounting with Dust Protection Cover |

System Control

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| LED Indicator | 1 x Power on/off LED on front side 1 x Storage Access LED on front side |
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Display

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| Graphic Chipset | Intel® UHD Graphics 620 (i7-8665UE, i5-8365UE, i3-8145UE) Intel® UHD Graphics 610 (4305UE) |
| Spec. & Resolution | 2 x HDMI 1.4: Max. Resolution 4096x2160@24Hz |
| Multiple Display | Dual Display |

Audio

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|------------------------|--------------------------|
| Audio Codec | Realtek ALC888S |
| Audio Interface | 1 x Mic-in, 1 x Line-out |

Certifications

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| Certification Information | CE, FCC Class B |
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Ethernet

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|---------------------------|---|
| LAN Chipset | 1 x Intel® I211AT 1 x Intel® I219LM |
| Ethernet Interface | 10/100/1000 Base-Tx Gigabit Ethernet Compatible |
| LAN Port | 2 x RJ-45 |

Power Requirement

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|---------------------------|--|
| DC Input | Typical +12V |
| DC Input Connector | Lockable DC Jack |
| ACPI | Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant |
| Power Mode | AT/ATX (ATX is default setting) |
| Adapter | Input: 100 ~ 240Vdc/ 50 ~ 60Hz Output: 12V/10A AC-DC 120W Adapter |

Mechanical & Environmental

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|------------------------------|---|
| Operating Temperature | With extended temperature peripherals: -10°C ~ 50°C (14°F ~ 122°F) with 0.5m/s air flow With extended temperature peripherals: -10°C ~ 40°C (14°F ~ 104°F) with 0.2m/s air flow With 2.5" hard drive: 0°C ~ 40°C (32°F ~ 113°F) with 0.5m/s air flow |
| Storage Temperature | -40°C ~ 75°C (-40°F ~ 167°F) |
| Operating Humidity | 40°C @ 95% Relative Humidity, Non-condensing |
| Dimension (W x L x H) | 177mm x 123mm x 55mm (7" x 4.8" x 2.2") |
| Weight | 2.65lbs(1.2KG) |
| Vibration Test | With SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 30min/Axis, 3 Axis |
| Shock Test | With SSD: 50G, IEC 60068-2-27, Half Sine, 11ms, Z Axis |
| Mounting Kit | Stand (Default) VESA Mount kit (Factory Option) |
| Drop | ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces |
| Construction | Aluminum + Metal |
| Software Support | |
| OS Information | Win 10, Linux |
| Ordering Information | |
| Ordering Information | EPC-WHL-86-C1-1R 8th Gen Intel®Core™ Processor Core™ i7-8665UE Fanless Tiny System EPC-WHL-83-C1-1R 8th Gen Intel®Core™ Processor Core™ i5-8365UE Fanless Tiny System EPC-WHL-81-C1-1R 8th Gen Intel®Core™ Processor Core™ i3-8145UE Fanless Tiny System EPC-WHL-43-C1-1R 8th Gen Intel®Celeron 4305UE Fanless Tiny System |