

NUC-EHL

Intel® Elkhart Lake Fanless NUC Slim System



- > Intel® Elkhart Lake Celeron® Processor J6412
- > Single DRAM Socket, Max. Up to 32GB DDR4 3200MHz
- > Rich I/O, 2-COM, 2-HDMI, 2-LAN (2.5GbE), 6-USB, Micro SD slot, Kensington Lock
- > Fanless operating from 0~60°C
- > On Board TPM 2.0 Default Table Stand
- > IP40, HDMI 2.0b, Wi-Fi (CE/FCC) certificated

+ Spec

System Information

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|---------------------------|--|
| Processor | Intel® Elkhart Lake Celeron® Processor J6412 |
| System Memory | 1 x 260-Pin SO-DIMM Socket, Max. Up to 32GB DDR4 3200MHz |
| I/O Chipset | EC ITE IT5571VG |
| BIOS Information | AMI BIOS, 128Mbit SPI Flash ROM |
| Watchdog Timer | H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step |
| H/W Status Monitor | Monitoring CPU Temperature, Voltage with Auto Throttling Control |
| TPM | TPM2.0 |
| SBC | NCM-EHL |

-Expansion-

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| M.2 | 1 x M.2 Key-B 2242/3042 with Internal SIM Slot (PCIe, USB 2.0) 1 x M.2 Key-E 2230 (PCIe, USB 2.0) |
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-Storage-

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|----------------|-----------------------------|
| M.2 | 1 x M.2 Key-B, 2242 (SATA3) |
| SD Card | 1 x Micro-SD Card Slot |

-Front I/O-

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| USB Port | 2 x USB 2.0 |
| COM Port | 1 x RS232/422/485 (BIOS) |
| Audio | 1 x Line-Out, 1 x Mic-In |
| Power Button | 1 x Power On/Off w/ LED |

-Rear I/O-

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| USB Port | 4 x USB 3.2 Gen.2 (10Gbp/s) |
| COM Port | 1 x RS232/422/485 (BIOS) |
| HDMI | 2 x HDMI 2.0b |
| RJ-45 | 2 x RJ45 |
| LED Indicator | 1 x Power on/off LED 1 x Storage Access LED |

-Right I/O-

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|----------------|---|
| Antenna | 2 x Antenna Mounting with Dust Protection Cover |
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-Left I/O-

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|----------------|---|
| Antenna | 2 x Antenna Mounting with Dust Protection Cover 1 x Micro-SD Card Slot |
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-Display-

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|------------------------|--|
| Graphic Chipset | Intel® UHD Graphics for 10th Gen Intel® Processors |
| Resolution | 2 x HDMI 2.0b: 4096x2304@60Hz |

-Audio-

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|--------------------|------------------------|
| Audio Codec | RealTek ALC888S-VD2-GR |
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-Ethernet-

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|----------------------|-------------------------|
| LAN Chipset | 2 x Intel® I225-LM |
| Specification | 10/100/1000/2.5 Gigabit |

-Power Requirement-

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|---------------------------|---|
| DC Input Voltage | + 12Vdc (Optional DC 12~24V) |
| DC Input Connector | 1 x 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 | 12V/5A AC-DC 60W Adapter |

-Software Support-

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| OS Information | Win10, Win11, Linux |
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-Certification-

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| Certification Information | CE, FCC Class B, UKCA Wi-Fi 6E RF certified |
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Mechanical & Environmental

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|------------------------------|---|
| Operating Temperature | With extended temperature peripherals: 0°C ~ 60°C (32°F ~ 140°F) with 0.5m/s air flow |
| Storage Temperature | -30°C~70°C(-22°F ~ 158°F) |
| Operating Humidity | 40°C @ 95% Relative Humidity, Non-condensing |
| Dimension (W x L x H) | 170mm x 125mm x 36mm(6.69" x 4.92" x 1.42") |
| Vibration Test | With SSD: 5Grms, IEC 60068-2-64, Random, 10 ~ 500Hz, 30min/Axis, 3 Axis |
| Shock Test | With SSD: 55G, IEC 60068-2-27, Half Sine, 11ms, Z Axis |
| Drop Test | ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces |
| IP Rating | 40 |
| Mounting Kit | Table Stand (Default) Din Rail/VESA (Optional) |
| Kensington Lock | 1 x Kensington Lock |
| Construction | Aluminum + Metal |

Ordering Information

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| Ordering Information | NUC-EHL-J12-A1-1R Intel® Celeron® J6412 Fanless NUC Slim System |
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