



## NUC-EHL

### Intel® Elkhart Lake Fanless NUC Slim Syst...



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, HDMI2.0b, Wi-Fi (CE/FCC) certificated

#### + Spec

#### . System Information

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

#### .-Expansion-

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

#### .-Storage-

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

#### .-Front I/O-

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

#### .-Rear I/O-

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

#### .-Right I/O-

|                |                                                 |
|----------------|-------------------------------------------------|
| <b>Antenna</b> | 2 x Antenna Mounting with Dust Protection Cover |
|----------------|-------------------------------------------------|

#### .-Left I/O-

|                |                                                                           |
|----------------|---------------------------------------------------------------------------|
| <b>Antenna</b> | 2 x Antenna Mounting with Dust Protection Cover<br>1 x Micro-SD Card Slot |
|----------------|---------------------------------------------------------------------------|

#### .-Display-

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

#### .-Audio-

|                    |                        |
|--------------------|------------------------|
| <b>Audio Codec</b> | RealTek ALC888S-VD2-GR |
|--------------------|------------------------|

#### .-Ethernet-

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

#### .-Power Requirement-

|                           |                                                               |
|---------------------------|---------------------------------------------------------------|
| <b>DC Input Voltage</b>   | + 12Vdc (Optional DC 12~24V)                                  |
| <b>DC Input Connector</b> | 1 x Lockable DC Jack                                          |
| <b>ACPI</b>               | Single power ATX Support S0, S3, S4, S5<br>ACPI 5.0 Compliant |
| <b>Power Mode</b>         | AT/ATX (ATX is default setting)                               |
| <b>Adapter</b>            | 12V/5A AC-DC 60W Adapter                                      |

**.-Software Support-**

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**OS Information** Win10, Win11, Linux**.-Certification-****Certification Information** CE, FCC Class B, UKCA  
Wi-Fi 6E RF certified**.-Mechanical & Environmental**

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

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